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.

0049

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

Type of action: X 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: Elk San Juan LLC OGRID #: 234144
Address: 1401 17th Street, Suite 700, Denver, CO 80202
Facility or well name: Ute Moutain Tribal 20 # 33
API Number: 30-045- 35139 OCD Permit Number:
U/L or Qtr/Qtr J Section 20 Township 31N Range 14W County: San Juan
Center of Proposed Design: Latitude 36.88374°N Longitude 108.33029°W NAD: ☐1927 X 1983
Surface Owner: ☐ Federal ☐ State ☐ Private X Tribal Trust or Indian Allotment

2.
X **Pit:** Subsection F or G of 19.15.17.11 NMAC
Temporary: X Drilling ☐ Workover
☐ Permanent ☐ Emergency X Cavitation ☐ P&A
X Lined ☐ Unlined Liner type: Thickness 20 mil X LLDPE ☐ HDPE ☐ PVC ☐ Other
X String-Reinforced
Liner Seams: X Welded X Factory ☐ Other Volume: 3950 bbl Dimensions: L 90' x W 50' x D 8'

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

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4.
☐ **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

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

X Alternate. Please specify Four foot high field fence hung on steel tee posts set every ten feet with corners braced

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

X 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. - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	☐ Yes X No
Within 300 feet of a continuously flowing watercourse, or 200 feet of any other significant watercourse or lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark). - Topographic map; Visual inspection (certification) of the proposed site	☐ Yes X No
Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. *(Applies to temporary, emergency, or cavitation pits and below-grade tanks)* - Visual inspection (certification) of the proposed site; Aerial photo; Satellite image	☐ Yes X No ☐ NA
Within 1000 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. *(Applies to permanent pits)* - Visual inspection (certification) of the proposed site; Aerial photo; Satellite image	☐ Yes X No ☐ NA
Within 500 horizontal feet of a private, domestic fresh water well or spring that less than five households use for domestic or stock watering purposes, or within 1000 horizontal feet of any other fresh water well or spring, in existence at the time of initial application. - NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site	☐ Yes X 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 X No
Within 500 feet of a wetland. - US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site	☐ Yes X No
Within the area overlying a subsurface mine. - Written confirmation or verification or map from the NM EMNRD-Mining and Mineral Division	☐ Yes X No
Within an unstable area. - Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological Society; Topographic map	☐ Yes X No
Within a 100-year floodplain. - FEMA map	☐ Yes X No

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
X Hydrogeologic Data (Temporary and Emergency Pits) - based upon the requirements of Paragraph (2) of Subsection B of 19.15.17.9 NMAC
X Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC
X Design Plan - based upon the appropriate requirements of 19.15.17.11 NMAC
X Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC
X 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 H_2S, 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: X Drilling ☐ Workover ☐ Emergency X 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)
X On-site Closure Method (Only for temporary pits and closed-loop systems)
X 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 indentify the facility or facilities for the disposal of liquids, drilling fluids and drill cuttings. Use attachment if more than two facilities are required.

Disposal Facility Name: _____ Disposal Facility Permit Number: _____

Disposal Facility Name: _____ Disposal Facility Permit Number: _____

Will any of the proposed closed-loop system operations and associated activities occur on or in areas that *will not* be used for future 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 X 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 X 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	X 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 X 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 X 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 X 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 X No
Within 500 feet of a wetland. - US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site	☐ Yes X No
Within the area overlying a subsurface mine. - Written confirmation or verification or map from the NM EMNRD-Mining and Mineral Division	☐ Yes X No
Within an unstable area. - Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological Society; Topographic map	☐ Yes X No
Within a 100-year floodplain. - FEMA map	☐ Yes X 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.***

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

X 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

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

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

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

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

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

X 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): Robert E. Fielder Title: Agent

Signature: Robert E. Fielder Date: May 4, 2010

e-mail address: pmci@advantas.net Telephone: 505.320.1435

20.
OCD Approval: ☒ Permit Application (including closure plan) ☐ Closure Plan (only) ☐ OCD Conditions (see attachment)

OCD Representative Signature: [signature] **Approval Date:** 5/7/10

Title: Environ/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 indentify 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:

Temporary Pit / Blow Pit

Operating and Maintenance Procedures

Elk San Juan LLC (ESJ)

Ute Mountain Tribal 20 No. 33

I. Design and Construction Specifications

a. Prior to construction of the pit, eight to ten inches of topsoil will be stripped from the location area and stockpiled as a berm above the cut slope around the cut slopes around corner 3 for drainage diversion during the drilling and completion phase and for reclamation of the cut slopes during interim reclamation. The remaining topsoil removed will be stockpiled along the toe of the fill slopes along the perimeter of the pad with fill slopes for use during interim reclamation of the temporary and blow pit.

b. In lieu of a pit sign, ESJ will install and maintain a sign on the wellsite in accordance with the provisions of Rule 103.

c. Upon completion of construction and liner installation, three sides of the reserve and blow pit will be fenced with a four foot hogwire fence installed on steel tee posts since this location is over 1000 feet from the nearest residential building. The fourth side of the pits will be fenced as soon as the drilling rig is moved off location. This fence will be maintained to insure no access by livestock or wildlife as long as there is fluid in the pit.

d. The temporary pit and blow pit will be constructed to the size shown on the attached Wellsite layout. Approximate volume of the temporary pit is 0.51 ac-ft. It is anticipated the top two inches will be a fine sandy loam material associated with the Monierco soil group. The next sixteen inches will be loam to channery loam associated with this same formation. The remaining six and one half feet of the pit area will be weathered bedrock of the Lewis formation which consists of shales and siltstones. The pit walls will be constructed on 2:1 slopes on all sides. Any benches of rock encountered will be scraped to a depth to allow cover by soil material if possible. The slopes will be walked down by the tractor to insure a smooth bottom for liner installation. Approximate volume of the blow pit is 0.09 ac-ft. It is anticipated the soils encountered will be the same foot and one half of the soils described for the temporary pit above. The bottom foot to foot and one half will be weathered bedrock of the Lewis. The blow pit will be constructed as a trench with near vertical walls and a grade from the outer end into the temporary pit to facilitate drainage of fluids into the temporary pit. The blow pit will be unlined except for the portion adjacent to the temporary pit where the apron of the temporary pit liner will run across the throat of the blow pit. No fluids will be stored in the blow pit. The soils removed during construction of the temporary and blow pit will be stockpiled as a berm around the blow pit. No run on preventative measures will be installed around the pits since they will be installed on the location perimeter.

e. The temporary pit will be lined with one section of 20 mil string reinforced LLDPE liner material with factory welded seams. We anticipate this pit will be covered with one pre-

cut section. The factory welded seam will be aligned running from the rig side to the outside wall. The liner will be installed in the anchor trench on one end and then pulled into the pit. In the event a smooth bottom or wall slope cannot be attained on construction this liner will be underlain with a geotextile liner. The edges of the liner on the level part of the pad will be anchored in a ditch around the perimeter at least eighteen inches deep and filled with dirt.

II. Operational Plan

a. ESJ will operate and maintain the pits to contain the liquids and solids associated with the drilling phase of this operation, prevent contamination of the fresh water supply and protect the public health and the environment.
b. ESJ will not dispose of or store any hazardous material in these pits. The blow pit bottom will be sloped so that any well fluid produced from air drilling will flow back into the temporary pit. All workover and completion fluids associated with flow back or circulation during these operations will be stored in a flow back tank on location.
c. ESJ will monitor the condition of the installed liner from the date it is installed until the pit is closed and will take the appropriate measures to repair and report any breach of the liner integrity within 48 hours of detection. Visual inspection will be daily during the drilling phase and the results will be recorded in the daily drillers log. The inspection will be weekly after the drilling rig is removed until the pit is closed. The results of this inspection will be maintained in a log book at ESJ's Farmington office.
d. Two feet of freeboard will be maintained in the temporary pit at all times until closure.
e. ESJ will remove all free liquid from the temporary pit and either haul it to the reserve pit for the next well if a multi-well program is planned or the Key Four Corners facility, permit # 9, if another well is not planned within 30 days of cessation of the drilling operation. All fluids associated with drilling or workover operations that are accumulated and stored in the flow back tank will be removed within 30 days of cessation of these operations and hauled to the Key Four Corners facility.
f. The pit will be maintained free of any solid refuse. This will be stored in a trash basket on the location.
g. A header system or hoses without ends or unions will be used for loading liquid into the temporary pit or removing liquid from the temporary pit.
h. The temporary pit and blow pit will be maintained free of any oil accumulation. ESJ will keep an oil absorbent boom on location for the entire time the pits are open.

III. Closure Plan

a. ESJ will close the pits within six months of the drilling rig release date of the well. ESJ will provide 72 hour notice to the District 3 office of the NMOCD prior to commencing closure operations.

b. ESJ has notified the landowner (Ute Mountain Ute Tribe) by email of its plan to proceed with in place burial if possible. A copy is attached. ESJ will send a similar notice to the Ute Mountain Ute Tribe and the OCD prior to initiating in place burial.

c. ESJ will initiate sampling and testing of the residue left in the temporary pit after the completion of the liquid hauling operation and the stabilization and liner removal operation referenced in d. and e. below in accordance with the applicable sampling and testing requirements outlined for in place burial. ESJ will inspect the section of the liner exposed by liquid removal for tears. ESJ will also take a composite soil sample from the blow pit bottom and have it analyzed using the standards for below grade tanks.

   i. If the testing of the residue meets the quality standards below, ESJ will proceed with in place burial as outlined in f. below.

Components	Tests Method	Limit (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	2500
GRO/DRO	EPA SW-846 8015M	500
Chlorides	EPA 300.1	1000

   ii. If test results of the residue or the composite soil sample from the blow pit do not meet the quality standards for on site burial, ESJ will dispatch a vacuum truck as soon as practical in the contractors schedule. They will remove the residue and haul it to the JFJ Landfarm facility, permit # 10. After the residue is removed the pit liner will be removed and hauled to an approved waste facility in San Juan County. ESJ will then initiate testing and sampling of the pit area as outlined in the Waste Evacuation and Haul section of the regulations. Results of these tests will be reported to the Aztec district office and the applicable closure method initiated.

d. ESJ will mix stockpiled pit dirt with residue at a 3:1 ratio to stabilize the residue.

e. ESJ will cut and remove the section of liner above the stabilized residue line. This will be disposed of at an approved San Juan Co. waste facility.

f. ESJ will use the remaining pit dirt stockpile to provide a compacted fill over the stabilized residue of the temporary pit to a depth within one foot of the graded location level. The blow pit will be filled with compacted fill from the pit dirt stockpile. The remaining pit dirt and dirt from the fill slopes will be spread over the pit side area, outside of the anchor pattern, to re-contour the pit area. Topsoil stockpiled in the fill buffers will then be pushed over the re-contoured pit area to achieve a depth of one foot of topsoil and seeded with a free of noxious weeds seed mix specified by the Ute Mountain Ute Tribe consisting of at least three native plant species, including at least one grass, in the next applicable seeding season. Seeding will be done by disc and drill over the pit area and broadcast on the cut slopes. 70% coverage will be maintained through two successive growing seasons. ESJ will provide notice to the NMOCD at the end of the second successful season.

g. ESJ will file the applicable closure report with attachments within 60 days of completion of closure.
h. ESJ will install a 4" X 4' steel marker at the center of the buried temporary pit, labeled in accordance with regulations, during interim reclamation.

IV. Siting Requirements substantiation and hydrogeologic data

a. Hydrogeologic data –
    i. Surface formation – Lewis formation
    ii. Geographic setting – Located on the crest of an alluvial plain south of Barker Dome and the lower end of Ute Canyon.
    iii. Soils – The entire well pad area is NCRS # 65 – Monierco fine sandy loam- a nonsaline to very slighty saline sandy loam formed by the erosion of the siltstones and shales of the Lewis formation deposited as a slope alluvium into Fourmile Canyon to the south. Typical distribution is 0 – 2 inches: fine sandy loam; 2 – 8 inches: loam; 8 – 18 inches: channery loam. Laid down on 2-3% slopes across the location area.

b. Drainage – General area drainage is to the south off the flanks of Barker Dome. Site specific drainage is to the south and southeast into tributaries of Four Mile Canyon drainage which runs southeast of this location. There are three identified drainages in the area of the subject location shown on the attached wellsite diagram. These are not identified on topographic or wetlands maps and are not considered significant. They gather runoff from the location area only. Field inspection revealed they are a few inches deep and less than a foot across. These will be diverted around the location perimeter to the southeast and southwest by construction of a diversion berm of topsoil above the cut slope during location leveling. They will be permanently diverted during interim reclamation by construction of a drain ditch at the base of the reclaimed cut slope.

   The only significant drainage in the area of this location is the West Fork of Four Mile Canyon. It is approximately 900 feet east of the proposed location which would put it approximately 830 feet from the proposed pit center.

c. Siting requirements substantiation
    i. A search of the iWaters database covering all of T31N, R14W was conducted for the UMT 30 # 23 pit permit and this investigation revealed that the two wells identified on iWaters are erroneous well spots and were not given any consideration in this review. The NM Bureau of Mines and Mineral Resources Hydologic Report No. 6 was also reviewed for water well data and yielded no results in this area. There are four water wells in this township identified on the topographic map and their location was verified by field inspection. The closest well is 2400 feet north of this proposed location. A review of the USGS "Geology and availability of ground water on the Ute Mountain Indian Reservation, Colorado and New Mexico" by James Irwin in 1966 does identify four water wells in T31N, R14W. This number matches the number of wells spotted on the topo map. The electronic copy did not contain a copy of the

maps that were part of the study nor did it identify the wells by a section location. Attempts to identify the well locations by correlation of their elevation and comparison to outcrop maps were unreliable. The depths of the wells range from 140 feet to 330 feet. Depth to water ranged from 132 feet to 178 feet with an average of 150 feet. The water zones identified in the study are the Farmington Sandstone, Pictured Cliffs (?) and Cliff House. Based on the available water well data and the fact the surface formation is Lewis the next available water zone would be the Cliff House at a depth of 403 feet in this well. Since the closest water well is north and updip on the Hogback we suspect it is well number 13 in the USGS study with a total depth of 302 feet and a depth to water of 178 feet. We propose the depth to water is over 100 feet below the proposed bottom of the pit. There are several springs over two miles west of the proposed location. These springs are located at the point the Cliff House outcrops and are likely points of discharge where the surface recharge from precipitation and runoff to the soils hit the interface with the Cliff House at shallow depth and come to the surface.

ii. There are no flowing watercourses within 300 feet of the proposed pit. The closest significant watercourse is Four Mile Canyon 830 feet east of the proposed pit.

iii. The closest residence, as scaled from the topo map, is 0.25 miles to the northeast. Field inspection reveals this is not a year round use residence. It is likely used by the ranchers during calving and branding seasons and in emergencies.

iv. The proposed pit is 0.50 miles south of the closest water well and 3.0 miles east of the closest spring.

v. This is a rural area location.

vi. There are no identified wetlands within 500 feet of the proposed pit. The closest identified wetland is Four Mile reservoir, 1.4 miles southeast.

vii. This location is not included in the FEMA mapping system. Based on the closest recorded data the washes of this area have floodplain corridors of 100 feet to 300 feet in the sections where there are no junctions. Using the maximum number would put the pit outside of the Four Mile Canyon floodplain on the east by 600 feet. The proposed pit is approximately 70 feet higher elevation than the closest point on the east.

viii. There were no unstable areas noted during the field inspection or evidence of underground mining activity. There are no identified mining operations in the immediate area on the Bureau of Mines website. The northern extent of the PNM strip mine is approximately three to four miles southwest of the proposed location.

District I
1625 N French Dr., Hobbs, NM 88240

District II
1301 W. Grand Avenue, Artesia, NM 88210

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

District IV
1220 S St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy, Minerals & Natural Resources Department

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

Form C-102
Revised October 12, 2005
Instructions on back
Submit to Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 Copies

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

[1] API Number	[2] Pool Code	[3] Pool Name
	62510	VERDE GALLUP

[4] Property Code	[5] Property Name	[6] Well Number
	UTE MOUNTAIN TRIBAL 20	33

[7] OGRID No.	[8] Operator Name	[9] Elevation
234144	ELK SAN JUAN, INC.	5664'

[10] Surface Location

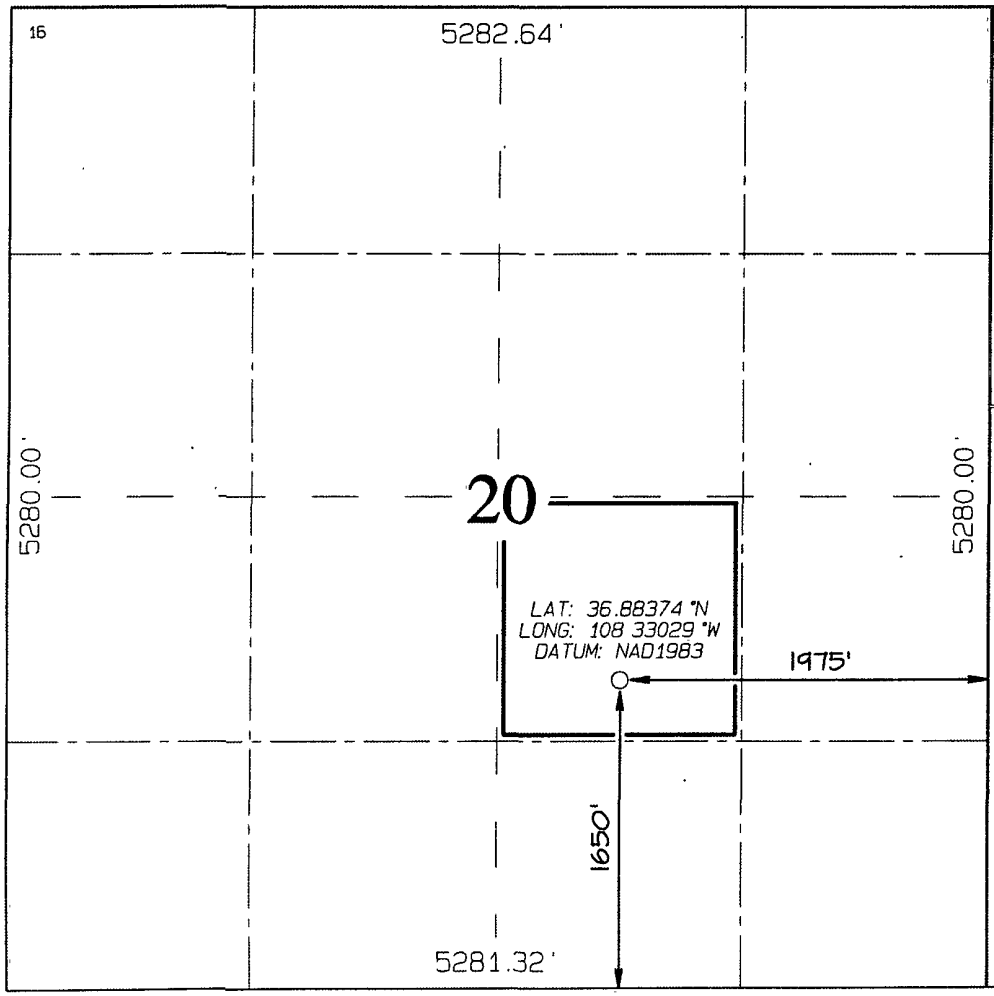
UL or lot no	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
J	20	31N	14W		1650	SOUTH	1975	EAST	SAN JUAN

[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

[12] Dedicated Acres	[13] Joint or Infill	[14] Consolidation Code	[15] Order No.
40.0 Acres - NW/4 SE/4			

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION



[17] OPERATOR CERTIFICATION

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.

Robert E. Fielder 4/29/2010
Signature Date

Robert E. Fielder
Printed Name

[18] SURVEYOR CERTIFICATION

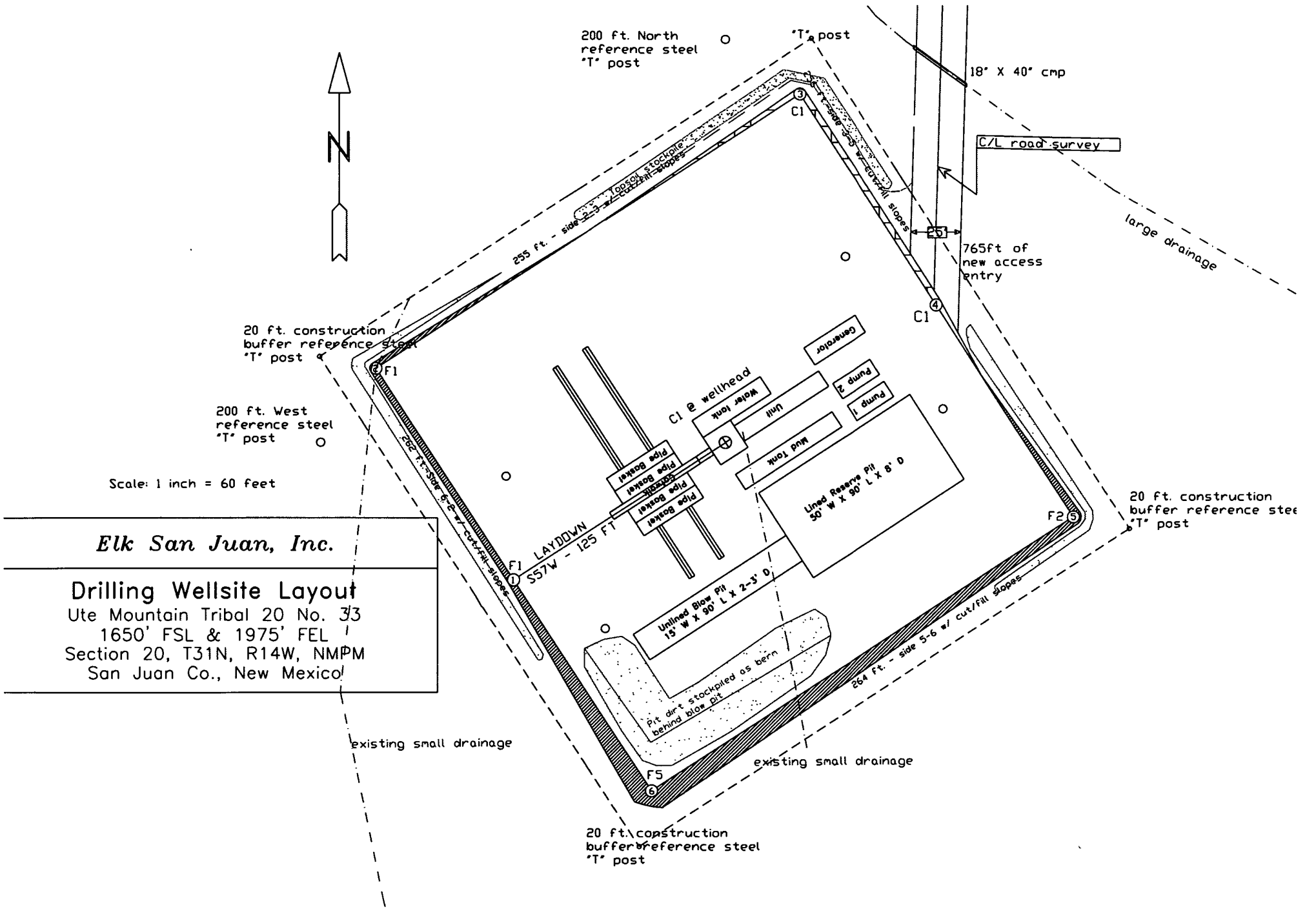
I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.

Date of Survey: JULY 21, 2006

Signature and Seal of Professional Surveyor

JASON C. EDWARDS
NEW MEXICO
15269
REGISTERED PROFESSIONAL SURVEYOR

JASON C. EDWARDS
Certificate Number 15269

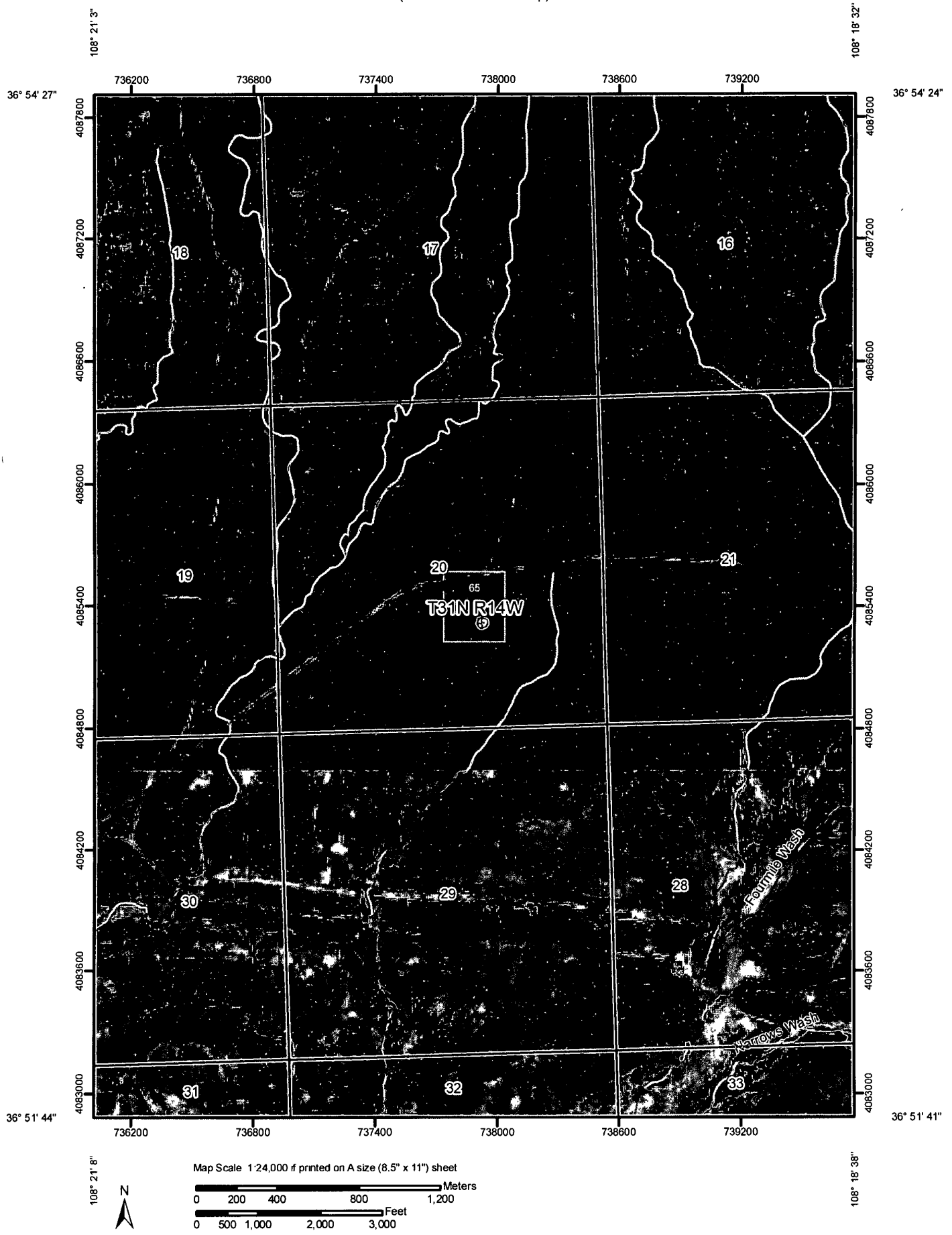


Elk San Juan, Inc.

Drilling Wellsite Layout

Ute Mountain Tribal 20 No. 33
1650' FSL & 1975' FEL
Section 20, T31N, R14W, NMPM
San Juan Co., New Mexico

Soil Map—Ute Mountain Area, Colorado and New Mexico
(UMT 20 # 33 soils map)



MAP LEGEND

Area of Interest (AOI)
- Area of Interest (AOI)

Soils
- Soil Map Units

Special Point Features
- Blowout
- Borrow Pit
- Clay Spot
- Closed Depression
- Gravel Pit
- Gravelly Spot
- Landfill
- Lava Flow
- Marsh or swamp
- Mine or Quarry
- Miscellaneous Water
- Perennial Water
- Rock Outcrop
- Saline Spot
- Sandy Spot
- Severely Eroded Spot
- Sinkhole
- Slide or Slip
- Sodic Spot
- Spoil Area
- Stony Spot
- Very Stony Spot
- Wet Spot
- Other

Special Line Features
- Gully
- Short Steep Slope
- Other

Political Features
- Cities
- PLSS Township and Range
- PLSS Section

Water Features
- Oceans
- Streams and Canals

Transportation
- Rails
- Interstate Highways
- US Routes
- Major Roads
- Local Roads

MAP INFORMATION

Map Scale: 1:24,000 if printed on A size (8.5" × 11") sheet.

The soil surveys that comprise your AOI were mapped at 1:24,000.

Please rely on the bar scale on each map sheet for accurate map measurements.

Source of Map: Natural Resources Conservation Service
Web Soil Survey URL: http://websoilsurvey.nrcs.usda.gov
Coordinate System: UTM Zone 12N NAD83

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Ute Mountain Area, Colorado and New Mexico
Survey Area Data: Version 7, Dec 5, 2008

Date(s) aerial images were photographed: 6/8/1991; 7/2/1993

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Map Unit Legend

Ute Mountain Area, Colorado and New Mexico (CO670)			
Map Unit Symbol	**Map Unit Name**	**Acres in AOI**	**Percent of AOI**
65	Monierco fine sandy loam, 3 to 12 percent slopes	25.6	100.0%
Totals for Area of Interest		**25.6**	**100.0%**

Map Unit Description

The map units delineated on the detailed soil maps in a soil survey represent the soils or miscellaneous areas in the survey area. The map unit descriptions in this report, along with the maps, can be used to determine the composition and properties of a unit.

A map unit delineation on a soil map represents an area dominated by one or more major kinds of soil or miscellaneous areas. A map unit is identified and named according to the taxonomic classification of the dominant soils. Within a taxonomic class there are precisely defined limits for the properties of the soils. On the landscape, however, the soils are natural phenomena, and they have the characteristic variability of all natural phenomena. Thus, the range of some observed properties may extend beyond the limits defined for a taxonomic class. Areas of soils of a single taxonomic class rarely, if ever, can be mapped without including areas of other taxonomic classes. Consequently, every map unit is made up of the soils or miscellaneous areas for which it is named and some minor components that belong to taxonomic classes other than those of the major soils.

Most minor soils have properties similar to those of the dominant soil or soils in the map unit, and thus they do not affect use and management. These are called noncontrasting, or similar, components. They may or may not be mentioned in a particular map unit description. Other minor components, however, have properties and behavioral characteristics divergent enough to affect use or to require different management. These are called contrasting, or dissimilar, components. They generally are in small areas and could not be mapped separately because of the scale used. Some small areas of strongly contrasting soils or miscellaneous areas are identified by a special symbol on the maps. If included in the database for a given area, the contrasting minor components are identified in the map unit descriptions along with some characteristics of each. A few areas of minor components may not have been observed, and consequently they are not mentioned in the descriptions, especially where the pattern was so complex that it was impractical to make enough observations to identify all the soils and miscellaneous areas on the landscape.

The presence of minor components in a map unit in no way diminishes the usefulness or accuracy of the data. The objective of mapping is not to delineate pure taxonomic classes but rather to separate the landscape into landforms or landform segments that have similar use and management requirements. The delineation of such segments on the map provides sufficient information for the development of resource plans. If intensive use of small areas is planned, however, onsite investigation is needed to define and locate the soils and miscellaneous areas.

An identifying symbol precedes the map unit name in the map unit descriptions. Each description includes general facts about the unit and gives important soil properties and qualities.

Soils that have profiles that are almost alike make up a *soil series*. All the soils of a series have major horizons that are similar in composition, thickness, and arrangement. Soils of a given series can differ in texture of the surface layer, slope, stoniness, salinity, degree of erosion, and other characteristics that affect their use. On the basis of such differences, a soil series is divided into *soil phases*. Most of the areas shown on the detailed soil maps are phases of soil series. The name of a soil phase commonly indicates a feature that affects use or management. For example, Alpha silt loam, 0 to 2 percent slopes, is a phase of the Alpha series.

Some map units are made up of two or more major soils or miscellaneous areas. These map units are complexes, associations, or undifferentiated groups.

A *complex* consists of two or more soils or miscellaneous areas in such an intricate pattern or in such small areas that they cannot be shown separately on the maps. The pattern and proportion of the soils or miscellaneous areas are somewhat similar in all areas. Alpha-Beta complex, 0 to 6 percent slopes, is an example.

An *association* is made up of two or more geographically associated soils or miscellaneous areas that are shown as one unit on the maps. Because of present or anticipated uses of the map units in the survey area, it was not considered practical or necessary to map the soils or miscellaneous areas separately. The pattern and relative proportion of the soils or miscellaneous areas are somewhat similar. Alpha-Beta association, 0 to 2 percent slopes, is an example.

An *undifferentiated group* is made up of two or more soils or miscellaneous areas that could be mapped individually but are mapped as one unit because similar interpretations can be made for use and management. The pattern and proportion of the soils or miscellaneous areas in a mapped area are not uniform. An area can be made up of only one of the major soils or miscellaneous areas, or it can be made up of all of them. Alpha and Beta soils, 0 to 2 percent slopes, is an example.

Some surveys include *miscellaneous areas*. Such areas have little or no soil material and support little or no vegetation. Rock outcrop is an example.

Additional information about the map units described in this report is available in other soil reports, which give properties of the soils and the limitations, capabilities, and potentials for many uses. Also, the narratives that accompany the soil reports define some of the properties included in the map unit descriptions.

Report—Map Unit Description

Ute Mountain Area, Colorado and New Mexico

65—Monierco fine sandy loam, 3 to 12 percent slopes

Map Unit Setting

Elevation: 4,800 to 5,700 feet
Mean annual precipitation: 7 to 10 inches
Mean annual air temperature: 52 to 56 degrees F
Frost-free period: 135 to 160 days

Map Unit Composition

Monierco and similar soils: 75 percent

Description of Monierco

Setting

Landform: Cuesta valleys
Landform position (three-dimensional): Base slope
Down-slope shape: Linear
Across-slope shape: Linear
Parent material: Residuum weathered from shale and siltstone

Properties and qualities

Slope: 3 to 12 percent
Depth to restrictive feature: 10 to 20 inches to paralithic bedrock
Drainage class: Well drained
Capacity of the most limiting layer to transmit water (Ksat): Very low to moderately high (0.00 to 0.20 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate, maximum content: 15 percent
Gypsum, maximum content: 5 percent
Maximum salinity: Nonsaline to very slightly saline (0.0 to 4.0 mmhos/cm)
Sodium adsorption ratio, maximum: 10.0
Available water capacity: Very low (about 2.1 inches)

Interpretive groups

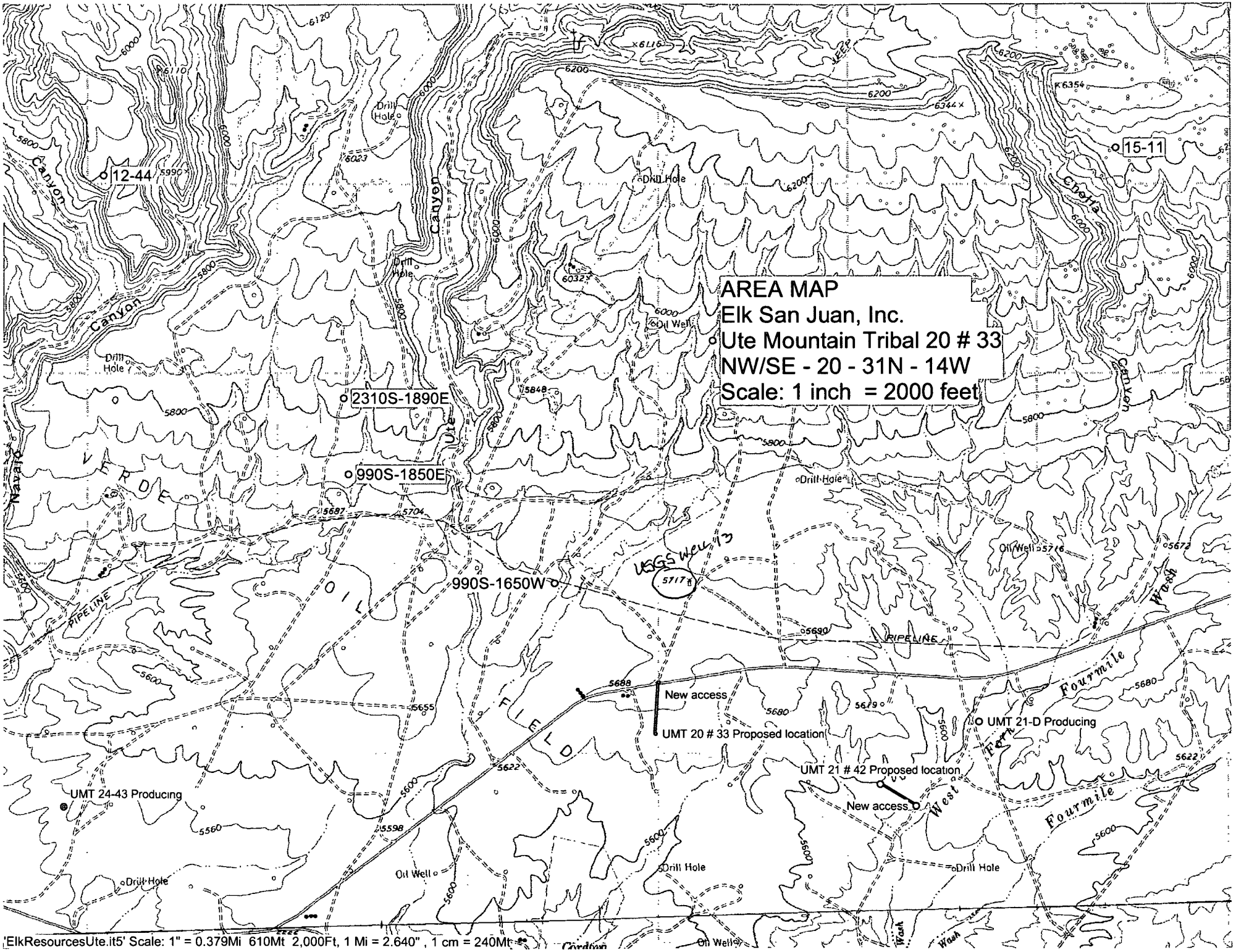
Land capability (nonirrigated): 6s
Ecological site: Saltdesert Breaks (R035XY406CO)

Typical profile

0 to 2 inches: Fine sandy loam
2 to 8 inches: Loam
8 to 18 inches: Channery loam
18 to 28 inches: Weathered bedrock

Data Source Information

Soil Survey Area: Ute Mountain Area, Colorado and New Mexico
Survey Area Data: Version 7, Dec 5, 2008


AREA MAP
Elk San Juan, Inc.
Ute Mountain Tribal 20 # 33
NW/SE - 20 - 31N - 14W
Scale: 1 inch = 2000 feet
12-44
15-11
2310S-1890E
990S-1850E
990S-1650W
USGS well 13
New access
UMT 20 # 33 Proposed location
UMT 21-D Producing
UMT 21 # 42 Proposed location
New access
UMT 24-43 Producing
Drill Hole
Oil Well
PIPELINE
Canyon
Ute
Fourmile
Wash
'ElkResourcesUte.it5' Scale: 1" = 0.379Mi 610Mt 2,000Ft, 1 Mi = 2.640" , 1 cm = 240Mt

New Mexico Office of the State Engineer
POD Reports and Downloads

Township: 31N Range: 14W Sections: 1-36

NAD27 X: Y: Zone: Search Radius:

County: Basin: Number: Suffix:

Owner Name. (First) (Last) Non-Domestic Domestic All

POD/Surface Data Report | Avg Depth to Water Report | Water Column Report

Clear Form | WATERS Menu | Help

POD / SURFACE DATA REPORT 03/25/2009

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

DB File Nbr	Use	(acre ft per annum) Diversion	Owner	POD Number	Source	Tws	Rng	Sec	q	q	q	X Y are in Feet Zone	X	Y	UTM are in Meters) UTM Zone	Easting	Northing	Start Date	Finish Date	Depth Well
RG 37716	DOM	3	MELAQUIAS ARELLANO	RG 37716	Shallow	31N	14W	05				C	727700	2164700	13	458031	4089047	04/12/1982	04/12/1982	47
RG 37737	DOM	3	GUSTAVO VALLEJOS	RG 37737	Shallow	31N	14W	35				C	736990	2151000	13	460807	4084836	04/05/1982	04/05/1982	54

Record Count: 2

Puts these over in NE or N Central NM

TABLE 4.—*Records of*

Number on plate 1: Ute Mountain letter and number designation of wells and springs shown on plate 1. A and B indicate a drilled well; S indicates a spring.
Depth of well: Measured depths are given in feet and tenths below land surface; reported depths are given in feet.
Casing diameter: Asterisk indicates iron casing.
Casing perforated interval: 257–420, casing perforated from 257 to 420 ft; OH 276–473, open hole from 276 to 473 ft.
Geologic source: Jn, Navajo Sandstone; Je, Entrada Sandstone; Jj, Junction Creek Sandstone; Jms Salt Wash Sandstone Member of the Morrison Formation; Kb, Burro Canyon Formation; Kd, Dakota Sandstone; Km, Mancos Shale; Kmg, limestone of Greenhorn age in the Mancos Shale; Kmj, Juana Lopez Member of the Mancos Shale; Kpl, Point Lookout Sandstone; Kch, Cliff House Sandstone; Kkf, Farmington Sandstone Member of the Kirtland Formation; Kpc, Pictured Cliff Sandstone; TKi, igneous rocks;

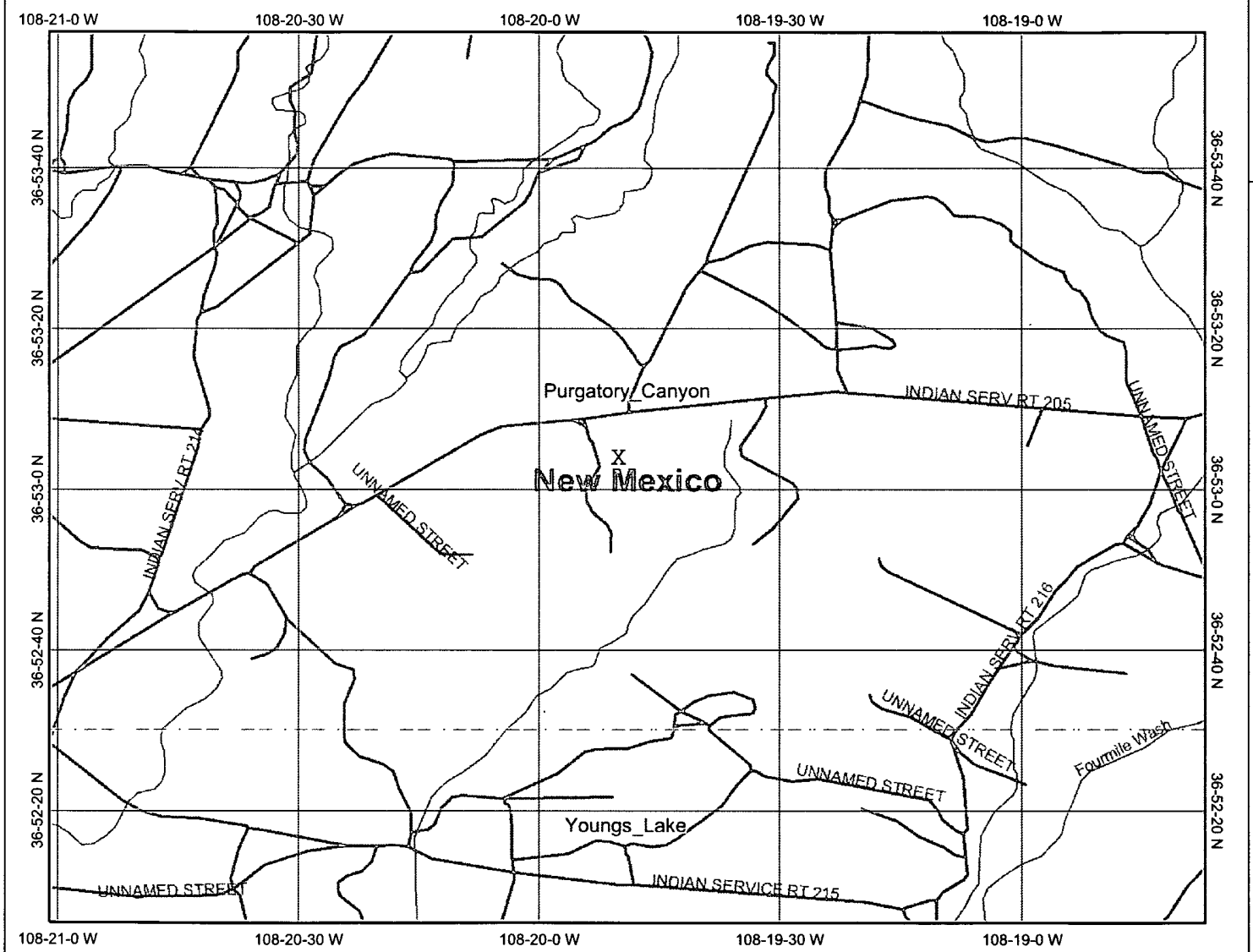
No. on plate 1	Location	Owner or user	Year completed	Depth of well	Casing		Character of material	Geologic source
					Diameter (inches)	Perforated interval (feet)		
A–1	T. 33 N., R. 18 W.	Ute Mountain Ute Tribe of Indians.	1953	774.7	*6		Sandstone.	Kd
2	T. 33 N., R. 18 W.	do		165.0	(*)		do	Kmj
3	T. 33 N., R. 19 W.	do	1953	695	*6		do	Kd
4	T. 33 N., R. 19 W.	do	1935	665	*6		do	Kd
5	T. 33 N., R. 20 W.	do	1931	250			do	Kd(?)
6	T. 33½ N., R. 20 W., NE¼NW¼ NW¼ sec. 32.	do		271.0	*5		do	Kd
7	T. 35 N., R. 19 W., C, N½ NW¼SW¼ sec. 35.	do			*6		do	Kd
8	T. 34 N., R. 19 W., NW¼SW¼ SW¼ sec. 8.	do		108.6		OH	do	Kd
9	T. 33½ N., R. 17 W., SE¼SE¼ SE¼ sec. 3.	do	1954	1,025	*6		do	Kd
10	T. 31 N., R. 16 W.	do			*8		do	Kpl
11	T. 31 N., R. 16 W.	do	1953	465	*6	257–420	do	Kpl
12	T. 32 N., R. 16 W.	do	1953	296	*6		do	Kpl
13	T. 31 N., R. 14 W.	do	1953	302	*6		do	Kch
14	T. 31 N., R. 14 W.	do						Kpc(?)
15	T. 31 N., R. 14 W.	do		143	*6			Kkf(?)
16	T. 31 N., R. 14 W.	do		330.0	*6			Kkf
17	T. 32 N., R. 14 W.	do	1953	135.0	*6		Sand	Qal
18	T. 32 N., R. 18 W., NE¼SW¼ NW¼ sec. 13.	do		86			Sand and gravel.	Qal
B–1	T. 33½ N., R. 19 W., NW¼NW¼ NW¼ sec. 30.	do	1956	177.0	*4	150–160	Sandstone.	Kd, Kb
2	T. 33½ N., R. 18 W.	do	1956	77.0	*6	25–40	Sand	Qal
3	T. 34 N., R. 20 W., SE¼SE¼ sec. 10.	do	1956	125			Sandstone.	Kd, Kb
4	T. 33½ N., R. 17 W., SE¼SE¼ SE¼ sec. 18.	do	1956	29.5			Sand, clay and gravel.	Qal
5	T. 33½ N, R. 19 W., NW¼NW¼ NE¼ sec. 26.	do	1957	204.0	*4		Limestone.	Kmg
6	T. 33½ N., R. 19 W., NW¼NW¼ NE¼ sec. 26.	do	1957	473.0	*6	OH 276–473	Sandstone.	Kd, Kb
7	T. 33 N., R. 17 W., NW¼NE¼ SE¼ sec. 17.	do	1957	1,346.0	*7	OH 1,246–1,330	do	Kd
9	T. 35 N., R. 19 W., C, SW¼ SW¼ sec. 23.	do	1954	886	*6	OH 580–886	do	Jj

wells and selected springs

Qp, pediment deposits; Qt, talus deposits; Qal, alluvium. For the description of the physical character of the bedrock water-bearing formations, see generalized section of bedrock formation (table 3).
Method of lift and type of power: C, cylinder; E, electric motor; G, gasoline engine; W, wind.
Yield: All quantities given are in gallons per minute (gpm); B, bail test; F, flowing well; P, pumping test; R, reported yield; <, less than.
Altitude: Altitudes of land surfaces were estimated from topographic maps and are given in feet above mean sea level.
Depth to water: Measured depths to water are given in feet and tenths below land surface; reported depths are given in feet below land surface.
Use of water: D, domestic; N, none; S, stock; P, public.
Remarks: A, chemical analyses of water given in table 6; L, log of well given beginning on page G75.

Method of lift, and type of power	Pump setting (in ft below land surface)	Yield		Drawdown		Altitude	Depth to water	Date of measurement	Use of water	Remarks
		Tested	Operating	Feet	Hours					
C, W	360	15 B	3	144	0.5	5,485	225.0	12- 4-57	S	A, L.
C, W	----	----	1	----	----	5,300	92.0	7-31-57	----	A. Deepened in 1959.
C, W	485	10 B	2.5	----	----	5,330	301.8	6-25-59	S	A, L.
C, W	575	----	4	----	----	5,175	287.3	6-24-59	S	A, L.
C, W	----	----	4	----	----	4,810	60.9	6-24-59	S	A.
C, W	260	----	3	----	----	5,090	76.9	6-24-59	S	A.
C, W	----	----	1.5	----	----	5,758	131.0	7-31-56	S	A.
C, W	96	----	3	----	----	5,223	83.9	6- 4-56	S	A.
C, E	----	12 PR	6	----	----	5,775	----	1954	P	A, L. Well originally flowed less than 1 gpm. No longer flows.
C, W	----	----	2	----	----	5,660	199.4	6-21-59	S	
C, W	----	1 PR	1	----	----	5,300	285.0	6-21-59	S	L.
C, W	----	----	2	----	----	5,610	182.3	6-22-59	S	L.
C, W	----	----	3	----	----	6,000	178.3	6-21-59	S	A, L.
C, W	----	----	2	----	----	5,720	143.1	6-21-59	S	
C, W	100	----	3	----	----	5,680	131.6	6-21-59	S	
C, W	----	----	1	----	----	5,670	146.3	6-21-59	S	
C, W	----	----	<1	----	----	6,200	122.5	6-22-59	S	L. Original depth, 204 ft, plugged back to 135 ft.
C, W	----	37 B	----	0	1	4,990	12.0	11-20-57	S	
C, W	151	----	5	----	----	5,104	59.4	7-19-57	S	A, L.
C, G	----	----	2	----	----	5,690	30.1	9- 3-56	D, S	A, L.
----	----	.5B	----	----	----	4,880	89.3	10-30-56	N	Abandoned.
----	----	1 B	----	----	----	5,820	25	----	N	Abandoned, L.
----	----	.5F	.5F	----	----	5,480	----	7- 7-57	S	A, L. Not in use.
----	----	5 B	----	----	4	5,480	84.8	8-14-57	S	L.
C, W	----	.25F	5	----	----	5,360	----	6- 4-57	S	A, L. Flowing well with windmill installed.
C, W	----	10 B	5	175	2.5	5,755	599	11-12-57	S	L. Deepened in 1957.

UMT 20 # 33 wetlands

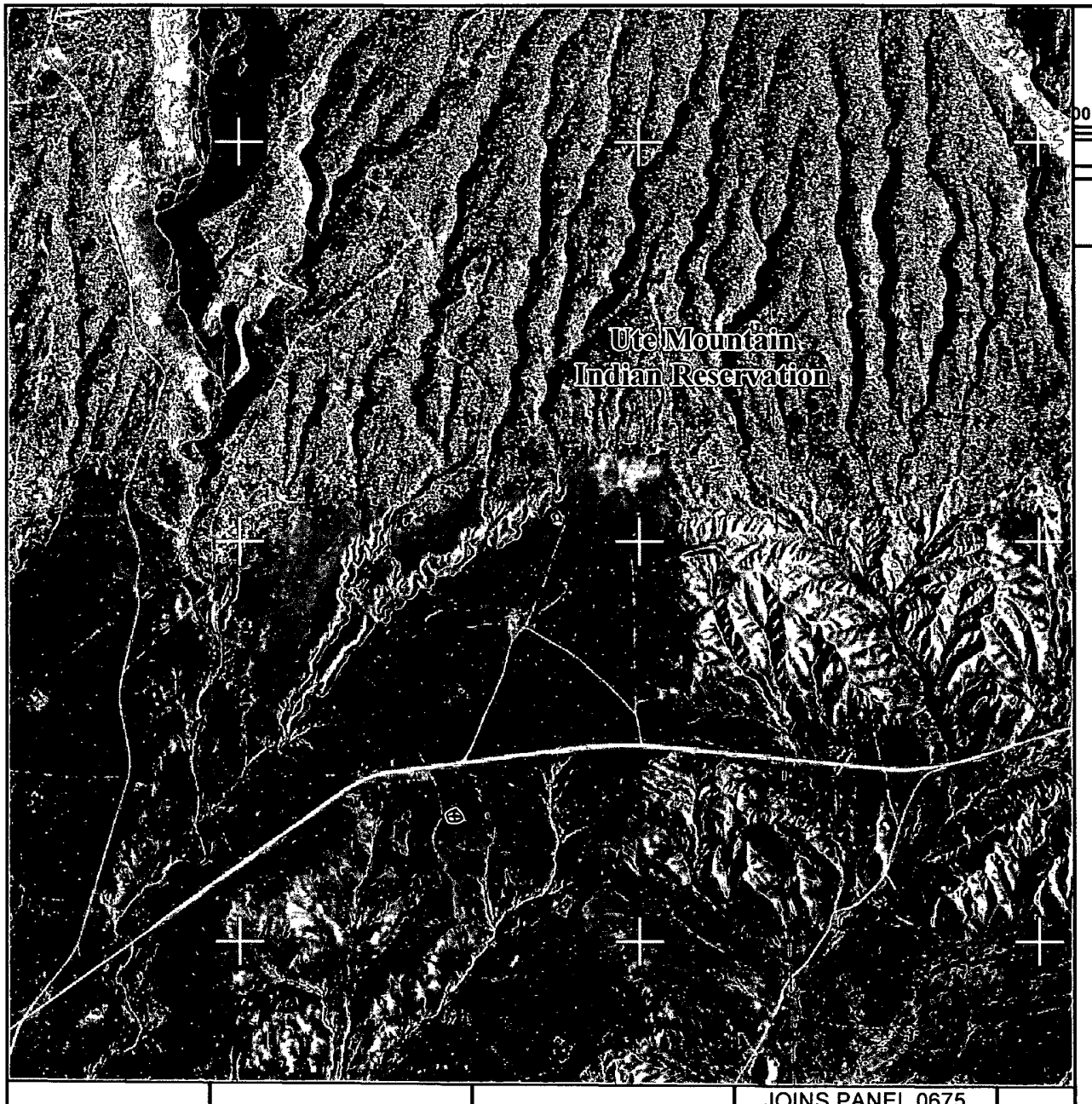


Map center: 36° 53' 1" N, 108° 19' 49" W

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
- NHD Streams
- Counties 100K
- States 100K
- South America
- North America

Scale: 1:24,000



MAP SCALE 1" = 2000'

0 2000 4000 FEET

0 600 1200 METERS

NFIP NATIONAL FLOOD INSURANCE PROGRAM

PANEL 0325F

FIRM

FLOOD INSURANCE RATE MAP

SAN JUAN COUNTY, NEW MEXICO AND INCORPORATED AREAS

PANEL 325 OF 2750

(SEE MAP INDEX FOR FIRM PANEL LAYOUT)

CONTAINS

COMMUNITY	NUMBER	PANEL	SUFFIX
SAN JUAN COUNTY	350064	0325	F

Notice to User The **Map Number** shown below should be used when placing map orders, the **Community Number** shown above should be used on insurance applications for the subject community

MAP NUMBER
35045C0325F

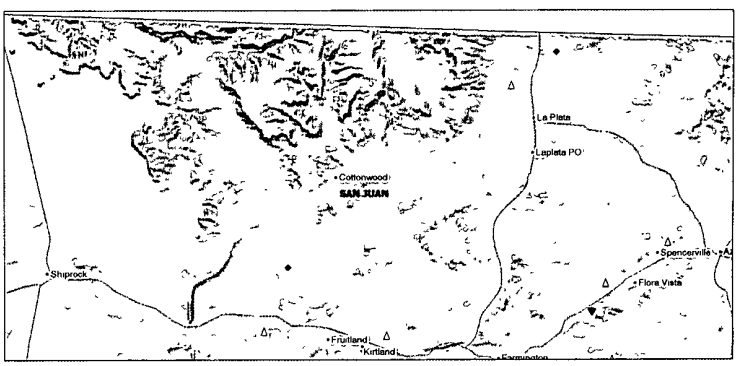
EFFECTIVE DATE
AUGUST 5, 2010

Federal Emergency Management Agency

Elk San Juan, UMT 20 # 33

Mines, Mills & Quarries Commodity Groups

- △ **Aggregate & Stone Mines**
- ◆ **Coal Mines**
- ★ **Industrial Minerals Mines**
- ▼ **Industrial Minerals Mills**
- ◪ **Metal Mines and Mill Concentrate**
- ■ **Potash Mines & Refineries**



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MILES

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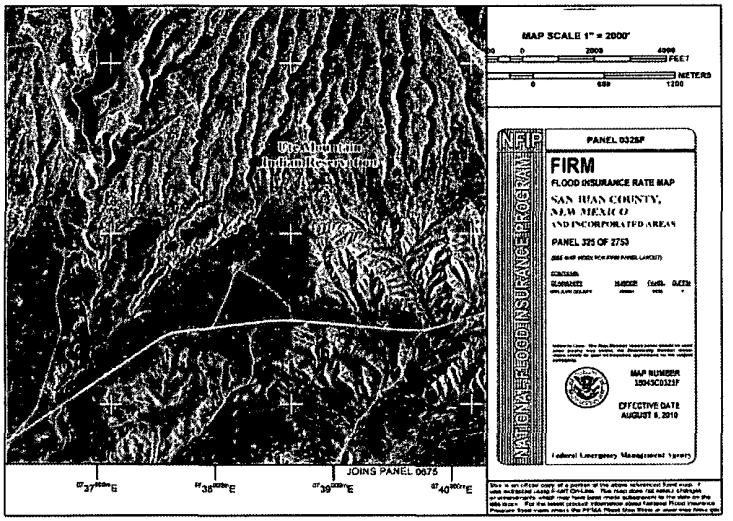
Save your FIRMette

Back



Bob Fielder

From: Bob Fielder [pmci@advantas.net]
Sent: Tuesday, May 04, 2010 4:33 PM
To: Priscilla Bancroft
Cc: 'david_swanson@blm.gov'
Subject: UMT 20 # 33 pit closure

In accordance with NMOCD pit rules we are informing you that Elk San Juan intends to close the temporary (reserve) and blow pit on this location in accordance with the onsite-in place burial method outlined in the rules. An additional email notice will be sent to you prior to the implementation of closure.
Robert E. Fielder
Agent for Elk San Juan LLC