

Henry P. Roybal
Commissioner, District 1

Anna Hansen
Commissioner, District 2

Rudy N. Garcia
Commissioner, District 3



Anna T. Hamilton
Commissioner, District 4

Ed Moreno
Commissioner, District 5

Katherine Miller
County Manager

April 6, 2020

BY ELECTRONIC MAIL

State of New Mexico Energy, Minerals and Natural Resources Department
Mining and Minerals Division
1220 South Saint Francis Drive
Santa Fe, New Mexico, 87505
Attention: David Otori

Re: Tererro Exploration Project Permit Application-Hydrogeologic Resources Report

Dear Mr. Otori:

On December 6, 2019, Santa Fe County Building and Development Services received a request, by your department, to comment on a Hydrogeologic Resources Report for the Tererro Exploration Project, Permit No. SF040ER, Comexico LLC. On January 27, 2020, your department extended the deadline for comments to April 6, 2020. The County submits the following comments and documents:

1. Mineral exploration and extraction is regulated under Chapter 11 of the Santa Fe County Sustainable Land Development Code (SLDC). Section 11.3.1.2 (2) states that applications for mineral exploration on federal lands must complete a Conditional Use Permit (CUP) in accordance with Chapter 4 of the SLDC. Section 4.9.6.3 states that a CUP application shall include any studies, reports, and assessments required in Table 6-1 as determined at the pre-application TAC meeting. In the September 17, 2019 TAC letter to Comexico, LLC., Santa Fe County Staff determined that the applicant must include a Water Service Availability Report (WSAR) and Environmental Impact Report (EIR) as part of the mineral exploration permit application to comply with the hydrological requirements of the SLDC. Should the applicant choose to pursue a permit for mineral exploration, they will be subject to all of the relevant requirements of Chapter 11 including all hydrological requirements of section 11.14.
2. Santa Fe County contracted with Parametrix Engineering (a private firm) to analyze the Hydrogeologic Resources Report, prepared by SWCA Environmental Consultants. A report review and an analyses for compliance with applicable sections of the Sustainable Land Development Code, prepared by Parametrix Engineering, are attached as exhibit A.

3. The Hydrogeologic Resources Report includes a summary, project description, environmental/physical setting discussion, review of previous reports and background documents, background surface water and groundwater quality, existing water rights and points of diversion, potential impacts from drilling, potential impacts to groundwater, and potential impacts to surface water. Some mitigation measures are also presented in the report. However, not all requirements of the SLDC are addressed. Therefore, the report is accurate for its intended purposes but does not meet the complete standards of the SLDC. An evaluation of the applicability and completeness of the report relative to applicable sections of the SDLC including the EIR and WSAR/hydrologic report are summarized in Table A1 and discussed further in the section summarizing compliance with the SLDC (Exhibit A).
4. The Hydrogeologic Resources Report was not specifically prepared to satisfy the complete requirements of the SLDC; however, the report does bring up areas that should be addressed further in the complete Studies, Reports, and Assessments (SRA) documents as required by the SLDC, when an application is submitted to Santa Fe County.

In his September 17, 2019 email to the County Development Review Team Leader, David Otori indicated that the County will have an additional opportunity to submit comments when all of Comexico's final reports and studies have been submitted. Accordingly, the County respectfully requests an additional period for commenting and looks forward to reviewing future submittals from Comexico, LLC.

In order to avoid delays with future submittals to Santa Fe County, the County emphasizes that the submittal requirements to the County will differ from the requirements of the application submitted to the Mining and Minerals Division.

If you have any questions, please do not hesitate to contact our office at (505) 986-6225.

Sincerely,

A handwritten signature in black ink that reads "Vicki Lucero". To the right of the signature, there is a handwritten "For" with an arrow pointing down towards the typed name below.

Vicki Lucero
Building & Development Services Manager

Cc. Jose E. Larranaga, Development Review Team Leader
Penny Ellis-Green, Growth Management Director
Robert Griego, Planning Division Manager
Jacob Stock, Community Planner

TECHNICAL MEMORANDUM

DATE: March 27, 2020
TO: Jeff Fredine
FROM: Mike Brady
SUBJECT: Hydrogeologic Resources Report for the Tererro Project
CC: Lisa Gilbert
PROJECT NUMBER: 563-7048-007 01.05
PROJECT NAME: Report Review and Compliance with Applicable Sections of the Sustainable Land Development Code

On behalf of our client, Santa Fe County, Parametrix reviewed the report entitled *Hydrogeologic Resources Report for the Tererro Project* in Santa Fe County, New Mexico (Hydrogeologic Resources Report), prepared for Comexico, LLC/ New World Cobalt Limited by SWCA Environmental Consultants dated October 2019 (SWCA 2019).

OBJECTIVES AND BACKGROUND

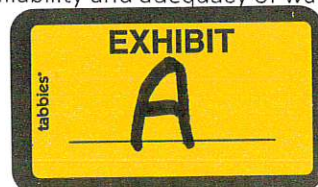
As stated in our scope of work, the objective of our review was to evaluate the information in the Hydrogeologic Resources Report for Accuracy and Completeness; Applicability of Analysis Techniques and Methodologies; Validity of Conclusions; and Compliance with Applicable Provisions of the Santa Fe County (SFC) Sustainable Land Development Code (SLDC).

As stated in the introduction of the Hydrogeologic Resources Report, "the report is intended to fulfill the hydrology requirements under National Environmental Policy Act (NEPA) permitting and/or permitting by other state and local agencies." The Tererro Project is planned for drilling up to 30 boreholes between depths of 500 to 4,000 feet within the Santa Fe National Forest by using mud-rotary drilling techniques for the purposes of collecting subsurface mineral information for a potential future mining operation. The project seeks to utilize a nearby water well (UP00826) to provide water during drilling operations for a period of up to one year during the investigation, utilize Santa Fe National Forest roads to access drilling sites, and build temporary drill pads and work preparation zones covering up to 2.1 acres of land use.

REGULATORY FRAMEWORK

Parametrix reviewed the Hydrogeologic Resource Report with respect to the Environmental Impact Report (EIR) and Water Service Availability Report (WSAR) and hydrologic report requirements under the SFC SLDC which was adopted by Ordinance 2016-9. The Hydrogeologic Resources Report partially correlates with these requirements within the SLDC.

Chapter 6.3 of the SLDC outlines the requirements of the EIR and generally discusses environmental impacts and mitigation measures. Chapters 6.5 and 7.13 of the SLDC discuss the requirements of the WSAR and hydrologic report, which generally evaluate the availability and adequacy of water supplies for a project.



EIR

The EIR requires a summary; project description; discussions of environmental setting; significant environmental impacts; significant environmental impacts that cannot be avoided; significant irreversible changes; other adverse effects; mitigation measures; consideration of project alternatives; organizations and persons consulted; and cumulative impacts.

WSAR and Hydrologic Report

The WSAR and hydrologic report require a water management plan; description of the basin; adjacent water rights; State Engineer documents including the water right permit; description and analysis of groundwater supply; the amount of water to be used by the project; analysis of the sufficiency of the groundwater to meet demand; background water quality; description of water storage capacity to support fire protection; analysis of sufficiency, production, and pump testing results; schedule of effects of the time period of use; the lowest practical pumping water level; sources of information/pertinent information; geologic maps, cross sections, and a description of the aquifer; depth to groundwater, water level contours, and direction of groundwater flow; probable well yields, hydrologic boundaries, and aquifer leakage; water quality of the well to be used; and implementation of a Santa Fe County well meter.

EVALUATION

Our review of the Hydrogeologic Resources Report with respect to the objectives outlined in our scope of work is provided in the individual sections below.

Accuracy and Completeness

The Hydrogeologic Resources Report includes a summary, project description, environmental/physical setting discussion, review of previous reports and background documents, background surface water and groundwater quality, existing water rights and points of diversion, potential impacts from drilling, potential impacts to groundwater, and potential impacts to surface water. Some mitigation measures are also presented in the report. However, not all requirements of the SLDC are addressed. Therefore, the report is accurate for its intended purposes but does not meet the complete standards of the SLDC. An evaluation of the applicability and completeness of the report relative to applicable sections of the SDLC including the EIR and WSAR/hydrologic report are summarized in Table A1 (attached) and discussed further in the section summarizing compliance with the SLDC.

Applicability of Analysis Techniques and Methodologies

The analysis techniques and methodologies utilized in the Hydrogeologic Resources Report are largely accurate for this type of project. However, additional analysis techniques and methodologies are required by the SLDC that are not presented in the report. Compliance with the SLDC with respect to analysis and methodologies is presented below.

Validity of Conclusions

The conclusions of the Hydrogeologic Resources Report are primarily presented in Chapter 7 "Potential Impacts from Drilling." This section discusses various aspects of the project largely related to impacts to the environment. The conclusions largely appear valid. However, as described below and summarized in Table A1, some areas specifically related to potential impacts from the drilling investigation and project support appear to require

further analysis to be compliant with respect to the EIR and WSAR and satisfy the SLDC SRA permitting documentation.

Compliance with Applicable Provisions of the Sustainable Land Development Code (SLDC)

The Hydrogeologic Resources Report was not specifically prepared to satisfy the complete requirements of the SLDC; however, the report does bring up areas that should be addressed further in the complete Studies, Reports, and Assessments (SRA) documents as required by the SLDC. The areas of concern identified in our review with respect to the EIR and WSAR/hydrologic report are discussed below.

EIR

As presented on Table A1 (attached), some of the sections were found to be either not complete or partially complete. These sections are described below and should be addressed in the overall EIR for the site to satisfy the SLDC requirements.

Summary (Chapter 6.3.3)

The executive summary does not include discussion of significant adverse impacts, mitigation measures, or areas of potential controversy. These items should be addressed in the formal EIR submittal as this report primarily addresses hydrologic and hydrogeologic resources.

Significant Environmental Impacts, Significant Environmental Impacts Which Cannot Be Avoided, Significant Irreversible Changes (Chapter 6.3.5 to 6.3.8)

The Hydrogeologic Resources Report does not present significant irreversible changes or significant environmental impacts that cannot be avoided. Examples of significant irreversible changes and impacts that cannot be avoided include grading and clearing of primitive roadway improvements to allow equipment access by removal of native vegetation, trees, and soils. The report indicates four drilling pads are potentially to be located on decommissioned road prisms and or pioneer routes covering 0.2 miles. The report indicates no road widening will be implemented but would scrape the route of topsoil and construct surface water mitigation every 50 feet along the route. These should be described in the specific EIR report.

Other Adverse Effects and Mitigation Measures (Chapter 6.3.9 to 6.3.10)

The Hydrogeologic Resources Report does not indicate emergency measures to be completed during the event of rapid mud loss into a fracture zone. This is a common occurrence in mud-rotary drilling and rapid fluid loss is a sign of encountering a fracture zone/aquifer. Emergency measures should be described in the overall EIR to include the procedures to prevent further mud loss and sealing off the water bearing zone to prevent degradation of the water source(s).

The Hydrogeologic Resources Report does not include which chemicals or adjuncts will be utilized in the drilling mud. These should be free of toxins and biodegradable as a mitigation measure/best management practice. The constituents should be described in the overall EIR as to not degrade the water sources encountered during drilling.

Project Alternatives (Chapter 6.3.11)

Project alternatives are briefly discussed by proposing 34 drill sites (pads) but solely using 30 drill sites. There is no alternative discussion of using fewer drill sites and conducting directional drilling. Directional drilling would reduce the amount of drill pad required, reduce the amount of time required for the project, overall reduce the

environmental impact of the investigation, and generally provide the same amount of mineral information that could be obtained by using multiple sites. These types of project alternatives should also be included in the overall EIR.

Cumulative Impacts (Chapter 6.3.13)

The cumulative impact of the project is partially discussed; however, further hydrogeologic analysis should be implemented to determine fracture zone, spring, and surface water connectivity as noted in the WSAR/hydrologic report section below. Macho Creek to the west of the project site is an impaired water due to specific conductivity (Upper Pecos Watershed Association, 2019). Macho Creek is home to Pecos – strain Rio Grande Cutthroat Trout which is a candidate species for potential listing as Endangered. The EIR should indicate cumulative impacts as well as mitigation measures to be completed as to not further degrade the surface water nearby.

WSAR and Hydrologic Report

The Hydrogeologic Resources Report indicates the project is to use an existing well located nearby (UP00826) for water use during the course of the project. The report also indicates the general hydrologic and hydrogeologic description of the area surrounding the project. However, further analysis appears appropriate to determine the connection of the fracture zones anticipated to be encountered with the nearby springs, surface waters, and wells as to support the EIR and satisfy the requirements of the WSAR and hydrologic report. Areas of recommended additional analysis and data presentation are presented below.

Water Management Plan, Analysis of Sufficiency, and Hydrologic Report Requirements (Chapters 6.5.5.6 and 7.13)

The Hydrogeologic Resources Report does not provide analysis of the sufficiency of the well to be used for the project except for referring to its production capacity of 27 gallons per minute (gpm) and annual allocation of 3 acre-feet per year. The report indicates in the area of the proposed use “aquifer pumping capacities are relatively limited” which suggests further analysis of the well sufficiency should be completed to determine long-term well production over the course of the project (1 year), on-site storage of water for fire protection, and the maximum depth of pumping water levels as to not degrade the well and aquifer while providing sufficiency for the project. The report does not provide pump test information for the on-site well to be used. The SLDC (Table 7-20) indicates a single-use well completed within miscellaneous sites within Santa Fe County requires a 48-hour pumping test followed by measurement of 5-days of recovery. Pumping test information from other nearby wells completed in the same or similar formation within 1-mile can be utilized; however, as noted the connectivity of the aquifer completed by this well with nearby fracture zones or aquifer is not fully understood. Further evaluation or pump testing appears necessary to fulfill the requirements of the WSAR and Hydrologic Report.

Water Right Documents (Chapter 6.5.5.6)

The Hydrogeologic Resources Report states “The POD nearest the project is the well associated with right UP00826. Comexico will propose to use up to 3 acre-feet of water from this POD via a temporary water use application with the New Mexico Office of the State Engineer.” The report also indicates the water right for UP00826 has a “use code of 72-12-1 Prospecting or Development of Natural Resource.” However, the updated water right information (9/11/2019) for the well indicates the use is for 72-12-1 for livestock watering and “this process is to change the purpose of use from prospecting and mining to livestock use.” The current well owner is listed as the U.S. National Forest Service represented by James Melonas. A copy of the water right information is attached. The Hydrogeologic Resources Report does not provide the documentation indicating that the water

supply for the proposed project has been secured from the selected UP00826 well, which is a requirement under the WSAR.

Presentation of Geologic Maps, Cross Sections, and Description of the Aquifer Systems Proposed for Production (Chapter 7.13.8)

The Hydrogeologic Resources Report does not describe an overall connection between the water bearing fractures anticipated to be encountered with the springs, surface waters, and neighboring wells. These types of connections are typically completed utilizing hydrogeologic cross sections, elevation analysis, surface and subsurface structures. The report states “widespread connectivity to distant water sources is possible, but not likely given the discontinuous presence of groundwater in specific fractures” and additionally indicating “Widespread connectivity to distant PODs...” (points of diversion) “...is possible but not likely, given the discontinuous presence of groundwater in specific fractures and the fact that the well drilled at the site encountered water only in a very limited fractured zone, over 200 feet deep. The water use at the POD associated with water right UP00826 is not likely to affect the nearest PODs 2 to 3 miles away; the source of water for these PODs is likely more closely tied to the Pecos River.”

The Hydrogeologic Resources Report did not attempt to determine the local continuity of the water-bearing fracture zones, perennial surface water bodies, or nearby PODs which includes wells, springs, and surface water diversions surrounding the project. This type of hydrogeologic situation analysis could be limited to within two miles of the drilling site and evaluate fracture zones anticipated to be encountered and the local occurrence of the source geologic deposits. Examples include the location of outcrops of Pecos Greenstone with respect to nearby sedimentary rock units (Moench and others, 1988), spring locations, wells/PODs, and surface waters.

Obvious connectivity questions pertain to the surface water features and tributaries of Macho Creek to the west and Indian Creek to the east (U.S. Geological Survey, 2020). The proposed drill sites are located on the divide between the Dry Gulch (west) and Indian Creek (east) sub-watersheds. Impacts to both surface water systems should be evaluated. The drilling program is anticipated to encounter water bearing fracture zones that likely include portions of the source water of baseflow for the surface water drainages, and the connectivity should further be evaluated as to not degrade the surface water and provide useful information to the overall EIR.

Overall, the Hydrogeologic Resources Report does not describe elevation and occurrence of surface and groundwater. The report indicates project drill sites range from 8,800 feet to 9,400 feet above sea level and depths are reported to be between 500 feet and 4,000 feet below ground surface (bgs). The elevation of the well to be used for the project (UP00826) is not presented in the report except it is found in the water right information for the well, which indicates the well elevation is 8,820 feet above sea level. Although the well log (attached) indicates the water-bearing fracture zone is from 205 to 220 feet bgs, the well is screened (perforated) between 176 feet to 239 feet bgs. This indicates the source water for the well occurs at elevations between 8,644 feet and 8,581 feet above sea level. Fracture zones anticipated to be encountered at the drill sites between these elevations +/- 500 feet may be the source of the well UP00826 that is to be utilized for the project. Extra precautions should be implemented during drilling as to not degrade the water source of the well. This type of elevation analysis and overall connectivity should be included in the hydrogeologic analysis and assist in the overall EIR of the project.

Leakage (Chapter 7.13.8)

Both analysis of aquifer leakage and well leakage are important for hydrogeologic analysis. The overall connectivity of the fracture zones and surface water bodies through leakage is discussed above. The following directly relates to the potential source water for the project.

The original water right for well UP00826 indicates that a leakage analysis must be completed by the State Engineer in order to use the well. At the time of the initial water right, the depth to groundwater in the well was 95 feet bgs. In 2019, the depth to water was reported at 17.48 feet bgs. The historical and current water levels confirm the well is under artesian conditions. One of the potential springs or seasonally wet areas (Spring 3) identified in the report occurs approximately 200 feet downgradient of well UP00826 and appears to be equivalent in elevation to the 2019 water level reported in the well. An updated leakage analysis of the well should be implemented prior to well use as to confirm the well is not the source of the potential spring.

Water Meter (Chapter 7.13.8)

Both the state Water Right and the SLDC require a water totalizer meter be utilized for well UP00826. However, the Hydrogeologic Resources Report does not include any totalizer or production data from the well. If there is no totalizer on the well, this appears to be in violation of the State and County Regulations for its usage. This should be corrected prior to use of the well for the project, or existing totalizer data from previous years should be supplied for analysis in support of the WSAR.

REFERENCES

- Moench, Grambling, and Robertson. 1988. Geologic Map of the Pecos Wilderness, Santa Fe, San Miguel, Mora, Rio Arriba, and Taos Counties, New Mexico, U.S. Geological Survey Miscellaneous Field Studies Map 1921-B.
- New Mexico Office of the State Engineer, 2020, New Mexico Water Rights Reporting System, available online at <http://nmwrrs.ose.state.nm.us/nmwrrs/index.html>, accessed 3/18/2020.
- Santa Fe County. 2016. Sustainable Land Development Code, Adopted by Ordinance 2016-9.
- SWCA Environmental Consultants (SWCA). 2019. Hydrogeologic Resources Report for the Tererro Project In Santa Fe County, New Mexico, as prepared for Comexico, LLC / New World Cobalt Limited. October.
- Upper Pecos Watershed Association. 2019. Upper Pecos Watershed based Plan, prepared for the New Mexico Environmental Department. Revised from original 2012.
- U.S. Geological Survey. 2020. Topographic Map of the Rosilla Peak 7.5-Minute Quadrangle, New Mexico.

LIMITATIONS

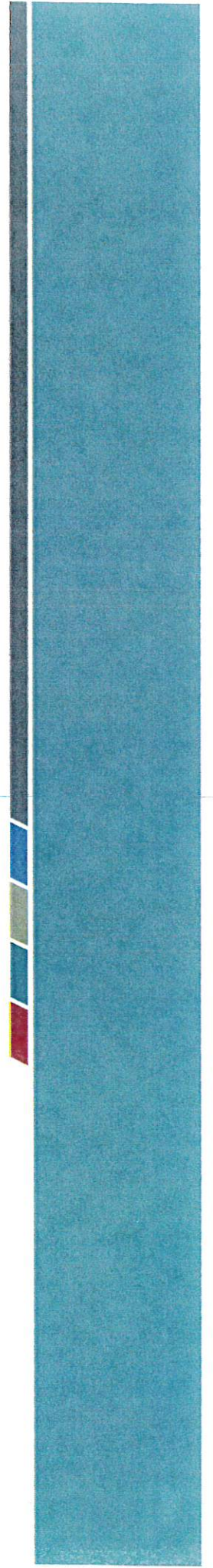
A site inspection was not performed as part of our review of the SWCA Hydrogeologic Resources Report. This review is based solely upon our understanding of the framework of our scope of work as it pertains to the SFC SLDC within the constraints of the EIR and WSAR/hydrologic report requirements, and within generally accepted scientific principles of hydrology and hydrogeology.

ATTACHMENTS

Table A1. Evaluation of Compliance of Hydrogeologic Resources Report (SWCA 2019) with Respect to Requirements of the Santa Fe County Sustainable Land Development Code (SLDC)

Well UP00826 Well Log and Water Right Information

Attachments

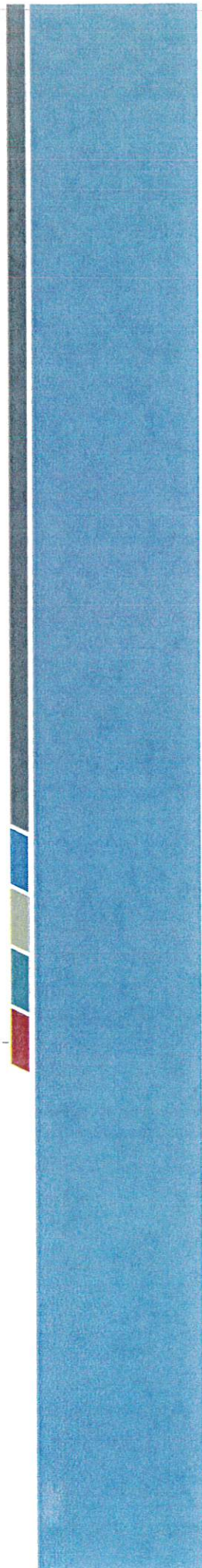


Table

Table A1. Evaluation of Compliance of Hydrogeologic Resources Report (SWCA 2019) with Respect to Requirements of the Santa Fe County Sustainable Land Development Code (SLDC)

SLDC Section	Requirements	Applicability/Completeness	
EIR (Section 6.3)	6.3.3 Summary (including significant adverse impacts, mitigation measures, and areas of potential controversy)	Partially complete	
	6.3.4 Project description (including the location/boundaries, and project objective)	Complete	
	6.3.5 Discussions of environmental setting	Complete	
	6.3.6 Significant environmental impacts	Partially complete	
	6.3.7 Significant environmental impacts which cannot be avoided	Partially complete	
	6.3.8 Significant irreversible environmental changes	Partially complete	
	6.3.9 Other adverse effects	Partially complete	
	6.3.10 Mitigation measures	Partially complete	
	6.3.11 Consideration and discussion of alternatives to the proposed project	Not complete	
	6.3.12 Organizations and persons consulted	Complete	
	6.3.13 Discussion of cumulative impacts	Partially complete	
	WSAR and hydrologic report (Sections 6.5 and 7.13)	6.5.5.6 Water management plan	Not complete
		6.5.5.6 Description of the basin	Complete
6.5.5.6 Adjacent water rights		Complete	
6.5.5.6 State Engineer documents including the water right permit		Partially complete	
6.5.5.6 Description and analysis of groundwater supply		Partially complete	
6.5.5.6 The amount and location of water to be used by the project		Complete	
6.5.5.6 / 7.13.5 Analysis of the sufficiency of the groundwater to meet demand		Not complete	
6.5.5.9 / 7.13.6 Background water quality		Complete	
7.13.7 Description of water storage capacity to support fire protection		Not complete	
7.13.8 Analysis of sufficiency, production, and pump testing results		Not complete	
7.13.8 Schedule of effects of the time period of use		Not complete	
7.13.8 The lowest practical pumping water level		Not complete	
7.13.8 Sources of information/pertinent information		Complete	
7.13.8 Geologic maps, cross sections, and a description of the aquifer system		Partially complete	
7.13.8 Depth to groundwater, water level contours, and direction of groundwater movement		Partially complete	
7.13.8 Probable well yields, hydrologic boundaries, and aquifer leakage		Partially complete	
7.13.8 Water quality of the well to be used		Not complete	
7.13.8 Implementation of a Santa Fe County well meter	Not complete		

Well UP00826 Well Log



STATE ENGINEER OFFICE
WELL RECORD

SANTA FE

240155

Section 1. GENERAL INFORMATION

(A) Owner of well CONOCO INC. Owner's Well No. Water Well
Street or Post Office Address 9301 Indian School Rd., N.E., #210
City and State Albuquerque, New Mexico 87112

Well was drilled under Permit No. File No. UP 826 and is located in the:

- a. $\frac{1}{4}$ NE $\frac{1}{4}$ NW $\frac{1}{4}$ SE $\frac{1}{4}$ of Section 1 Township 17N Range 11E N.M.P.M.
- b. Tract No. _____ of Map No. _____ of the _____
- c. Lot No. _____ of Block No. _____ of the _____
Subdivision, recorded in _____ County.
- d. X= _____ feet, Y= _____ feet, N.M. Coordinate System _____ Zone in the _____ Grant.

(B) Drilling Contractor Stewart Bros. License No. WD-331

Address Grants, New Mexico

Drilling Began 6/23/81 Completed 6/25/81 Type tools Rotary Size of hole 6 1/4 in.

Elevation of land surface or _____ at well is 8820' ft. Total depth of well 240' ft.

Completed well is shallow artesian. Depth to water upon completion of well 95' ft.

Section 2. PRINCIPAL WATER-BEARING STRATA

Depth in Feet		Thickness in Feet	Description of Water-Bearing Formation	Estimated Yield (gallons per minute)
From	To			
205'	220'	15	Fracture zone	27

Section 3. RECORD OF CASING

Diameter (inches)	Pounds per foot	Threads per in.	Depth in Feet		Length (feet)	Type of Shoe	Perforations	
			Top	Bottom			From	To
4 1/2 OD	10.5	8	0	239	239	none	239	176

Section 4. RECORD OF MUDDING AND CEMENTING

Depth in Feet		Hole Diameter	Sacks of Mud	Cubic Feet of Cement	Method of Placement
From	To				
			None		

Section 5. PLUGGING RECORD

Plugging Contractor None

Address _____

Plugging Method _____

Date Well Plugged _____

Plugging approved by: _____

State Engineer Representative

No.	Depth in Feet		Cubic Feet of Cement
	Top	Bottom	
1			
2			
3			
4			

STATE ENGINEER
SANTA FE, N.M.
AM 10 31
82 JUN 30

October 16, 1981 FOR USE OF STATE ENGINEER ONLY

Date Received

UP-826

Quantity XXXX

FWL 17N.11.1.42114 FSI

File No. _____ Use Mineral Testing Location No. _____

Section 6. LOG OF HOLE

Depth in Feet		Thickness in Feet	Color and Type of Material Encountered
From	To		
0	22	22	overburden
22	240	218	mixed quartz-biotite-chlorite rock, black biotite-chlorite schist and green chlorite-quartz-sericite schist

Section 7. REMARKS AND ADDITIONAL INFORMATION UP-826

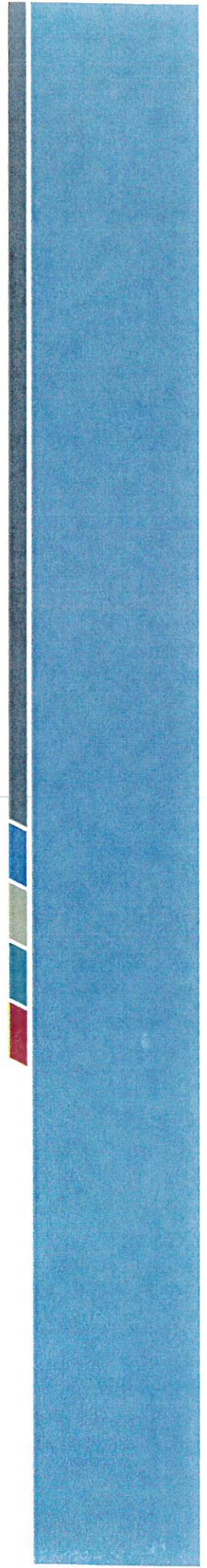
OCT 16 8 33 AM '81
 STATE ENGINEER
 ROSWELL, NM

The undersigned hereby certifies that, to the best of his knowledge and belief, the foregoing is a true and correct record of the above described hole.

Ward Sumner
 Driller Geologist

INSTRUCTIONS: This form should be executed in triplicate, preferably typewritten, and submitted to the appropriate district office of the State Engineer. All sections, except Section 5, shall be answered as completely and accurately as possible when any well is drilled, repaired or deepened. When this form is used as a plugging record, only Section 1 (Remarks) and Section 5 need be completed.

Water Right Information





New Mexico Office of the State Engineer

Transaction Summary

72121 All Applications Under Statute 72-12-1

Transaction Number: 658442 Transaction Desc: UP 00826 File Date: 09/05/2019

Primary Status: PMT Permit

Secondary Status: APR Approved

Person Assigned: *****


Applicant: USDA FOREST SERVICE SANTA FE

Contact: JAMES MELONAS

Events

Date	Type	Description	Comment	Processed By
09/05/2019	APP	Application Received	*	*****
09/11/2019	FIN	Final Action on application		*****
09/11/2019	WAP	General Approval Letter		*****
09/11/2019	CN5	Meter Installation Request		*****

Change To:

WR File Nbr	Acres	Diversion	Consumptive	Purpose of Use
UP 00826		3		STK 72-12-1 LIVESTOCK WATERING
**Point of Diversion				
UP 00826		434419	3953658	

Remarks

THIS PROCESS IS TO CHANGE THE PURPOSE OF USE FROM PROSPECTING AND MINING TO LIVESTOCK USE.

Conditions

- 10 Total diversion from all wells under this permit number shall not exceed 3 acre-feet per annum.
- 18 Any diversion of water made in excess of the authorized maximum diversion amount shall be repaid with twice the amount of the over-diversion during the following calendar year. Repayment shall be made by either: (a) reducing the diversion from the well that is the source of the over-diversion; or (b) acquiring or leasing a valid, existing consumptive use water right in an amount equal to the repayment amount and submitting a plan for the proposed repayment during the following year to the State Engineer for approval.
- 14 This permit authorizes the diversion of water for watering livestock. The total diversion of water under this permit shall not exceed 3 acre-feet per year.
- 5E All wells pertaining to this Permit shall be equipped with totalizing meters installed before the first branch of the discharge line from the wells and the installation shall be acceptable to the State Engineer; the Engineer shall be advised of the make, model, serial number, installation date, and initial meter reading prior to appropriating water; pumping records shall be submitted to the District Supervisor for each calendar month on or before the 10th of Jan, Apr, Jul and Oct of each year

Action of the State Engineer

NO LOG DUR

**** See Image For Any Additional Conditions of Approval ****

Approval Code: A - Approved

Action Date: 09/11/2019

State Engineer: John R. D Antonio,

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.

3/18/20 4:04 PM

TRANSACTION SUMMARY



New Mexico Office of the State Engineer

Transaction Summary

COWNF Change of Ownership Full

Transaction Number: 658438

Transaction Desc: UP 00826

File Date: 09/05/2019

Primary Status: CHG Change of Ownership

Secondary Status: PRC Processed

Person Assigned: *****

Applicant: USDA FOREST SERVICE SANTA FE

Contact: JAMES MELONAS

Events

Date	Type	Description	Comment	Processed By
09/05/2019	APP	Application Received	*	*****
09/05/2019	CHG	Change of ownership Full		*****

Water Right Information

WR File Nbr	Acres	Diversion	Consumptive	Purpose of Use
UP 00826			0	PRO 72-12-1 PROSPECTING OR DEVELOPMENT OF NATURAL RESOURCE

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 Right Summary



WR File Number: UP 00826 **Subbasin:** UP **Cross Reference:** -
Primary Purpose: STK 72-12-1 LIVESTOCK WATERING
Primary Status: PMT PERMIT
Total Acres: **Subfile:** - **Header:** -
Total Diversion: 3 **Cause/Case:** -
Owner: USDA FOREST SERVICE SANTA FE
Contact: JAMES MELONAS

Documents on File

Trn #	Doc	File/Act	Status		Transaction Desc.	From/	Acres	Diversion	Consumptive
			1	2		To			
658442	72121	2019-09-11	PMT	APR	UP 00826	T		3	
658438	COWNF	2019-09-05	CHG	PRC	UP 00826	T		0	
240939	72121	1992-08-03	PMT	APR	UP 00826	T		3	
240941	COWNF	1992-06-25	CHG	PRC	UP 00826	T		0	
240935	72121	1991-02-28	PMT	APR	UP 00826	T		3	
240928	72121	1989-05-02	PMT	APR	UP 00826	T		3	
240924	72121	1988-02-17	PMT	APR	UP 00826	T		3	
240923	72121	1987-04-18	PMT	APR	UP 00826	T		3	
240921	72121	1984-04-24	PMT	APR	UP 00826	T		3	
240919	72121	1983-06-13	PMT	APR	UP 00826	T		3	
240164	72121	1982-04-29	DEN	DEN	UP 00826	T		3	
240155	72121	1981-06-19	PMT	LOG	UP 00826	T		3	

Current Points of Diversion

(NAD83 UTM in meters)

POD Number	Well Tag	Source	Q	Q	Q	Q	Sec	Tws	Rng	X	Y	Other Location Desc
UP 00826	NA	Shallow	2	14	01	17N	11E			434419	3953658	

Place of Use

Q	Q	Q	Q	Sec	Tws	Rng	Acres	Diversion	CU	Use	Priority	Status	Other Location Desc
256	64	16	4						PRO			PRG	no place

Source

Acres	Diversion	CU	Use	Priority	Source Description
0	0	PRO			GW

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