



NEW MEXICO OFFICE OF THE STATE ENGINEER

APPLICATION FOR PERMIT TO DRILL A WELL WITH NO CONSUMPTIVE USE OF WATER



(check applicable box):

For fees, see State Engineer website: <http://www.ose.state.nm.us/>

- Purpose:
- Pollution Control And / Or Recovery Geo-Thermal
- Exploratory Construction Site De-Watering Other (Describe):
- Monitoring Mineral De-Watering

A separate permit will be required to apply water to beneficial use.

Temporary Request - Requested Start Date: _____ Requested End Date: _____

Plugging Plan of Operations Submitted? Yes No

1. APPLICANT(S)

Name: Santa Fe County	Name:
Contact or Agent: Karen Torres check here if Agent <input type="checkbox"/>	Contact or Agent: check here if Agent <input type="checkbox"/>
Mailing Address: PO Box 276	Mailing Address:
City: Santa Fe	City:
State: NM Zip Code: 87504	State: Zip Code:
Phone: <input type="checkbox"/> Home <input type="checkbox"/> Cell Phone (Work): (505) 992-9871	Phone: <input type="checkbox"/> Home <input type="checkbox"/> Cell Phone (Work):
E-mail (optional): ktorres@santafecounty.org	E-mail (optional):

FOR OSE INTERNAL USE

Application for Permit, Form wr-07, Rev 4/12/12

File Number:	Trn Number:
Trans Description (optional):	
Sub-Basin:	
PCW/LOG Due Date:	

2. WELL(S) Describe the well(s) applicable to this application.

Location Required: Coordinate location must be reported in NM State Plane (NAD 83), UTM (NAD 83), or Latitude/Longitude (Lat/Long - WGS84).

District II (Roswell) and District VII (Cimarron) customers, provide a PLSS location in addition to above.

- | | | |
|--|---|---|
| <input type="checkbox"/> NM State Plane (NAD83) (Feet) | <input type="checkbox"/> UTM (NAD83) (Meters) | <input type="checkbox"/> Lat/Long (WGS84) (to the nearest 1/10 th of second) |
| <input type="checkbox"/> NM West Zone | <input type="checkbox"/> Zone 12N | |
| <input type="checkbox"/> NM East Zone | <input type="checkbox"/> Zone 13N | |
| <input type="checkbox"/> NM Central Zone | | |

Well Number (if known):	X or Easting or Longitude:	Y or Northing or Latitude:	Provide if known: -Public Land Survey System (PLSS) (Quarters or Halves, Section, Township, Range) OR - Hydrographic Survey Map & Tract; OR - Lot, Block & Subdivision; OR - Land Grant Name
	106 14'6.029" w	35 33'28.864" n	La Majada Grant within T 15 N, R 7 E, Section 6 Village of La Bajada

NOTE: If more well locations need to be described, complete form WR-08 (Attachment 1 – POD Descriptions)
Additional well descriptions are attached: Yes No **If yes, how many** _____

Other description relating well to common landmarks, streets, or other: **47 La Bajada Village**

Well is on land owned by: **David Harrington**

Well Information: NOTE: If more than one (1) well needs to be described, provide attachment. Attached? Yes No
 If yes, how many _____

Approximate depth of well (feet): 400.00	Outside diameter of well casing (inches): 6.00
Driller Name: Tbd	Driller License Number:

3. ADDITIONAL STATEMENTS OR EXPLANATIONS

Permission of the land owner is included as Attachment A

4. SPECIFIC REQUIREMENTS: The applicant must include the following, as applicable to each well type. Please check the appropriate boxes, to indicate the information has been included and/or attached to this application:

<p>Exploratory: <input checked="" type="checkbox"/> Include a description of any proposed pump test, if applicable.</p>	<p>Pollution Control and/or Recovery: <input type="checkbox"/> Include a plan for pollution control/recovery, that includes the following: <input type="checkbox"/> A description of the need for the pollution control or recovery operation. <input type="checkbox"/> The estimated maximum period of time for completion of the operation. <input type="checkbox"/> The annual diversion amount. <input type="checkbox"/> The annual consumptive use amount. <input type="checkbox"/> The maximum amount of water to be diverted and injected for the duration of the operation. <input type="checkbox"/> The method and place of discharge.</p>	<p>Construction De-Watering: <input type="checkbox"/> Include a description of the proposed dewatering operation, <input type="checkbox"/> The estimated duration of the operation, <input type="checkbox"/> The maximum amount of water to be diverted, <input type="checkbox"/> A description of the need for the dewatering operation, and, <input type="checkbox"/> A description of how the diverted water will be disposed of.</p>	<p>Mine De-Watering: <input type="checkbox"/> Include a plan for pollution control/recovery, that includes the following: <input type="checkbox"/> A description of the need for mine dewatering. <input type="checkbox"/> The estimated maximum period of time for completion of the operation. <input type="checkbox"/> The source(s) of the water to be diverted. <input type="checkbox"/> The geohydrologic characteristics of the aquifer(s). <input type="checkbox"/> The maximum amount of water to be diverted per annum. <input type="checkbox"/> The maximum amount of water to be diverted for the duration of the operation. <input type="checkbox"/> The quality of the water. <input type="checkbox"/> The method of measurement of water diverted.</p>
<p>Monitoring: <input type="checkbox"/> Include the reason for the monitoring well, and, <input type="checkbox"/> The duration of the planned monitoring.</p>	<p><input type="checkbox"/> The method of measurement of water produced and discharged. <input type="checkbox"/> The source of water to be injected. <input type="checkbox"/> The method of measurement of water injected. <input type="checkbox"/> The characteristics of the aquifer. <input type="checkbox"/> The method of determining the resulting annual consumptive use of water and depletion from any related stream system. <input type="checkbox"/> Proof of any permit required from the New Mexico Environment Department. <input type="checkbox"/> An access agreement if the applicant is not the owner of the land on which the pollution plume control or recovery well is to be located.</p>	<p>Geo-Thermal: <input type="checkbox"/> Include a description of the geothermal heat exchange project, <input type="checkbox"/> The amount of water to be diverted and re-injected for the project, <input type="checkbox"/> The time frame for constructing the geothermal heat exchange project, and, <input type="checkbox"/> The duration of the project. <input type="checkbox"/> Preliminary surveys, design data, and additional information shall be included to provide all essential facts relating to the request.</p>	<p><input type="checkbox"/> The recharge of water to the aquifer. <input type="checkbox"/> Description of the estimated area of hydrologic effect of the project. <input type="checkbox"/> The method and place of discharge. <input type="checkbox"/> An estimation of the effects on surface water rights and underground water rights from the mine dewatering project. <input type="checkbox"/> A description of the methods employed to estimate effects on surface water rights and underground water rights. <input type="checkbox"/> Information on existing wells, rivers, springs, and wetlands within the area of hydrologic effect.</p>

ACKNOWLEDGEMENT

I, We (name of applicant(s)), Santa Fe County _____
 Print Name(s)

affirm that the foregoing statements are true to the best of (my, our) knowledge and belief.

Katherine Miller, County Mgr _____
 Applicant Signature Applicant Signature

ACTION OF THE STATE ENGINEER

proved as to form
 Santa Fe County Attorney
[Signature]
 Date: Sept 5, 2012

This application is:
 approved partially approved denied

provided it is not exercised to the detriment of any others having existing rights, and is not contrary to the conservation of water in New Mexico nor detrimental to the public welfare and further subject to the attached conditions of approval.

Witness my hand and seal this _____ day of _____ 20 _____, for the State Engineer,

_____, State Engineer

By: _____
 Signature Print

Title: _____
 Print

FOR OSE INTERNAL USE

Application for Permit, Form wr-07

File Number:	Trn Number:
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CONSENT TO PERFORM WORK ON PROPERTY

We, David and Galila Harrington, owners of the property located at 47 La Bajada Village, (Exhibit A) do hereby consent to Santa Fe County performing geotechnical testing for a storage tank and drilling of an exploratory well on my property as set forth below.

1. Owner is willing to allow the County to perform geotechnical testing for a storage tank and to drill and test an exploratory well; which will be owned by Santa Fe County.
2. My name, mailing address, phone numbers, email is:

Name: David Harrington
Mailing: 123 Monte Rey Dr
City, State & Zip: Los Alamos, NM 87544
Phone number(s): 505-699-5677
Email: d.harrington@gmail.com
3. Allowing the County to perform geotechnical testing and to drill and test an exploratory well on said property will facilitate the necessary upgrades for the La Bajada Water system. I acknowledge and hereby agree that I will hold the County harmless and will indemnify the County, its employees, agents and/or representatives in the geotechnical testing and well drilling for any harm which results from this activity.
4. Santa Fe County agrees to ensure all bonding and insurance is in place to perform this work. Any improvements will be owned by Santa Fe County and disturbed land will be restored to its previous condition.
5. If it is determined by the County that the existing site is unsuitable for the necessary upgrades for the La Bajada Water System the land owner will be contacted and scheduled work on this property will cease.
6. This consent is governed by the laws of the State of New Mexico and any dispute arising hereunder shall be under the jurisdiction and venue of the First Judicial District, State of New Mexico.

PROPERTY OWNER:

David Harrington

La Bajada Well: TECHNICAL SPECIFICATIONS

LOCATION AND DESCRIPTION OF WORK:

The work under this contract is located within the Village of La Bajada in Santa Fe County, New Mexico. (Figure 1) The work shall consist of a licensed well driller to provide all necessary equipment and materials for the drilling, completion, development and testing of a water supply well.

The work subject of this request shall be performed by a well driller who holds a current and valid license issued by the State of New Mexico in accordance with 19.27.4 NMAC, and who can demonstrate to have the experience and expertise necessary for the drilling, completion, development and testing of a water supply well.

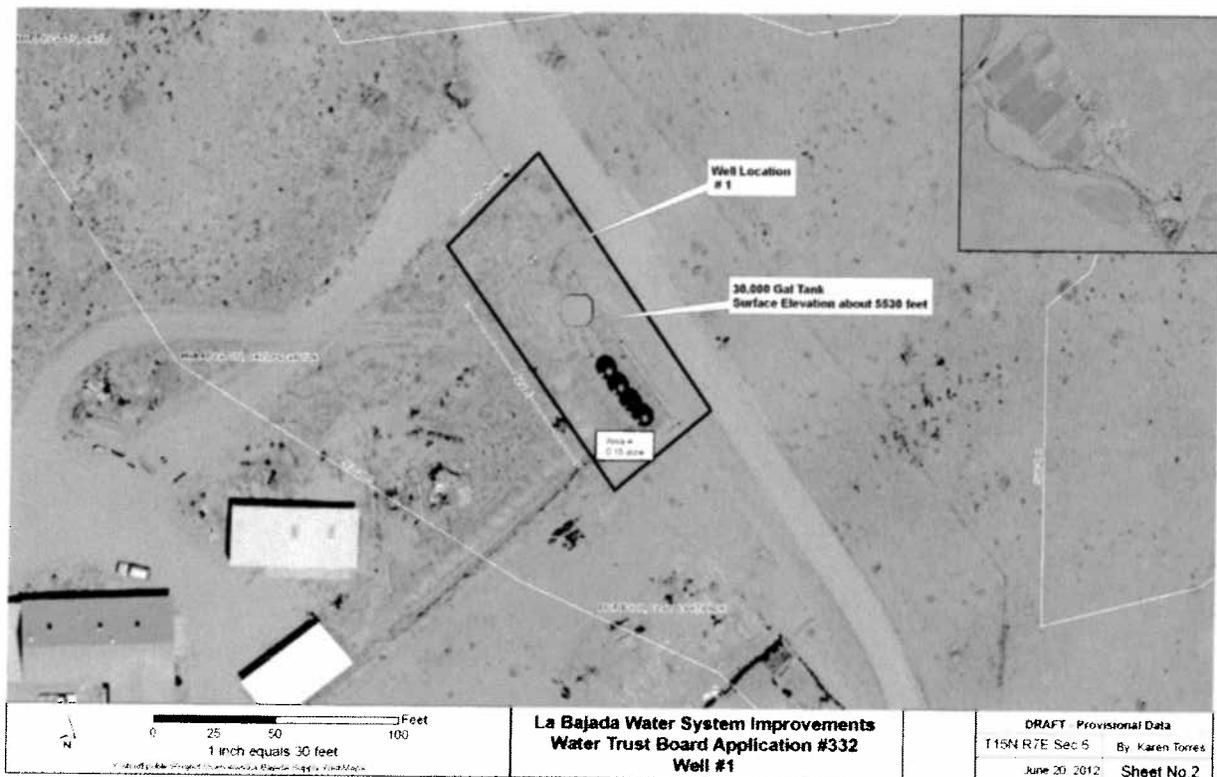


Figure 1: Location of Well Site

GEOLOGY

Geophysical data suggest that the geological formation consists of formation of sand, silty sand and clay in layers and at various depths. Nearby well logs are provided as supplemental material

WELL DEPTH

Drilling will be discontinued after one of the following conditions is encountered or happens:

- A. A four hundred (400) feet depth is achieved with sufficient thickness of water bearing strata to produce 20 gallons per minute or greater. (County Project Manager will advise if additional depth is necessary. No additional work or change orders will be paid unless driller obtains written authorization with cost estimate prior to the work being performed.)
- B. Unexpected material is encountered such as basalt or shale.
- C. Santa Fe County Project Manager advises to cease drilling operations.

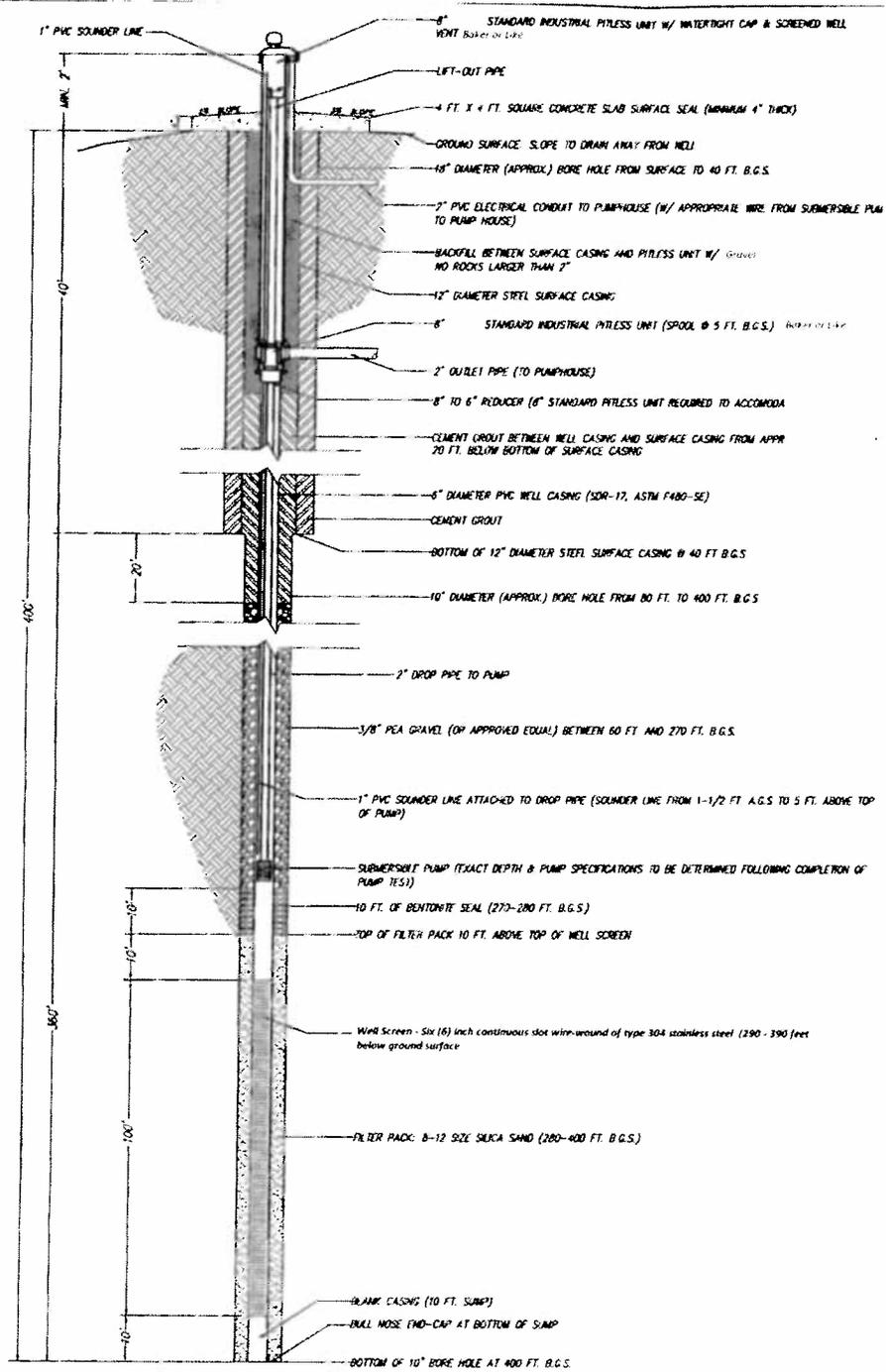
WELL CASING

PVC – Well casing shall have a minimum inside diameter of 6.0 inches, shall be manufactured to ASTM F 480 and ASTM 2241 and shall have sufficient wall thickness to withstand formation and hydrostatic pressures placed on the casing during installation, well development and use. Casing shall meet requirements of the American Water Works Association and the National Sanitary Foundation and carry its seal with the following minimum specifications:

Interior Diameter in inches	SDR	Wall Thickness in inches	Weight Per Foot	Pressure Class	Hydraulic Collapse Pressure
6	17	0.390	4.89	250 psi	224 psi

PVC well casing shall be similar to Certa-Lok PVC Well Casing by CertainTeed Corp., or approved equal.

CONCEPTUAL WELL DESIGN



NOT TO SCALE
 NOTE: DIMENSIONS INDICATED ON THIS DETAIL ARE ESTIMATED AND ACTUAL DIMENSIONS ARE SUBJECT TO CHANGE BASED ON CONDITIONS NOTED IN THE FIELD.

CONCEPTUAL WELL DESIGN FOR WATER SUPPLY WELL
 LA BAJADA
 Santa Fe COUNTY, NEW MEXICO

PUMPING TEST

After development of the well a variable rate pumping test for ten (10) hours shall be conducted for the purpose of designing the permanent well pumping equipment. The rate of pumping during the test will be specified by the County's Project Manager. The County's Project Manager may change the pumping rate during the test. The Contractor may be required to pump the well during the test for the full period without shutdown. If a shutdown occurs during the test period, the Contractor may be required by the County's Project Manager to repeat the test without extra cost to the County. Water level measurements shall be made in the well prior, during and following these tests at frequent intervals with a device, subject to review by the County, which allows continuous monitoring of the water level in the well. At the end of the pumping test, the Contractor shall submit to the County four (4) copies of the drawdown and recovery versus time logs for the specified pumping rates and the data electronically.