



DISTRICT I

SCOTT A. VERHINES, P.E.
STATE ENGINEER

5550 San Antonio NE
Albuquerque, NM 87109
(505) 383-4000

November 7, 2014

FILE: NO OSE NUMBER (Wingate 89, 90, and 91)

U.S. Army
5338 Montgomery NE, Suite 300/400
Albuquerque, NM 87109

Greetings:

Enclosed is the Well Plugging Plan of Operations which has been approved subject to the Conditions of Approval, attached hereto.

Sincerely,

A handwritten signature in blue ink, appearing to read "J.M. Allred".

Jennifer M. Allred
Water Resource Specialist

JMA:jma
Enclosures as stated

CC: ZAPATA Incorporated, Contact: Steven E. Morrissette, 4312 S. 198th Street, Omaha, NE 68135



DISTRICT 6
SCOTT A. VERHINES, P.E.
NEW MEXICO STATE ENGINEER

Materials submitted by David Henry / US Army Corps of Engineers (USACOE) and Steven Morrisette / Zapata, Inc., on behalf the USACOE of the identify three defunct potentiometric monitor wells to be plugged at the Fort Wingate Depot site. Geomechanics Southwest, Inc. (WD-1522) is scheduled to plug the wells.

Permittee: US Army

Location: Fort Wingate, McKinley County, New Mexico

Approximate coordinates:

Applicant well	NMOSE File No.	Latitude (NAD 83)	Longitude (NAD 83)	Depth	Reported static water level bgl	Casing diameter
Wingate 89	Unknown	35° 31' 36.5052"	-108° 35' 35.9952"	100'	13.5'	12"
Wingate 90	Unknown	35° 31' 40.5156"	-108° 35' 51.8568"	98'	11.7'	8"
Wingate 91	Unknown	35° 31' 44.0292"	-108° 36' 01.4040"	112'	12.4'	12"

Specific Plugging Conditions of Approval for tabulated Fort Wingate Project Monitor Wells

1. Water well drilling and well drilling activities, including well plugging, are regulated under 19.27.4 NMAC, which requires any person engaged in the business of well drilling within New Mexico to obtain a Well Driller License issued by the New Mexico Office of the State Engineer (NMOSE). Therefore, the firm of a New Mexico licensed Well Driller shall perform the well plugging.
2. Theoretical volumes of sealant required for abandonment of 8" and 12" ID casings are approximately 2.6 and 5.9 gallons per foot respectively; if casing is extracted, more sealant will be necessary.

The Well Plugging Plans of Operation submitted request use of 3% - 5% bentonite-enriched cement grout. Pure bentonite powder ("90 barrel yield") is allowed as a cement additive under NMOSE / AWWA guidelines, and neither granular bentonite nor extended-yield bentonite should be mixed with cement for the purpose of these pluggings. When supplementing a cement slurry with bentonite powder as requested, water demand for the mix increases at a rate of approximately 0.65 gallons of water for each 1% increment of bentonite bdwc (by dry weight cement) above fundamental water demand of 5.2 gallons water per 94-lb. sack of cement. A 3% bentonite/cement slurry may therefore contain up to 7.2 gallons of water total per 94-lb. sack of cement / approximate 3-lb. bentonite increment, when appropriately mixed; a 5% bentonite/cement slurry may therefore contain up to 8.5 gallons of water total per 94-lb. sack of cement / approximate 5-lb. bentonite increment, when appropriately mixed.

The bentonite shall be hydrated separately with its required increment of water before being mixed into the neat cement slurry. If water is otherwise added to the combination of dry ingredients or the dry bentonite blended into wet cement, the hardness and alkalinity imparted to the mix water by the


cement will restrict yield of the bentonite powder, resulting in excess free water in the slurry and enhanced cement shrinkage upon curing.

3. Placement of the grout slurry within the wells shall be by pumping through a tremie pipe extended to near well bottom and kept below top of the slurry column as the well is plugged from bottom-upwards in a manner that displaces any standing water column upwards from below (note Condition 5, below). Tremie pipe may be pulled as necessary to retain minimal submergence in the advancing column of sealant.
4. Any open annulus encountered at the wellhead shall also be sealed by the placement of the approved cement grout mix. Submitted plugging plans note that should a gravel-filled annulus be found for any of these wells, the upper 20' of annular space will be retroactively grouted. Subsequent information filed by 10/22/2014 e-mail from Steven Morrisette / Zapata, Inc., notes that would be effected following gravel displacement by compressed air. Prior to, or upon completion of plugging, the well casing may be cut-off below grade as necessary to allow redevelopment of the site, provided a minimum 6-inch thickness of abandonment grout or concrete completely encapsulates the top of the cut-off casing. More stringent local building codes may apply.
5. Should the New Mexico Environment Department, US Environmental Protection Agency, or another regulatory agency sharing jurisdiction of the project authorize, or by regulation require a more stringent well plugging procedure than herein acknowledged, the more-stringent procedure should be followed. This, in part, includes provisions regarding pre-authorization to proceed, contaminant remediation, inspection, pulling/perforating of casing, or prohibition of free discharge of any fluid from the borehole during or related to the plugging process.
6. NMOSE witnessing of the plugging of non-artesian wells is not required, but shall be facilitated if a NMOSE observer is onsite. NMOSE witnessing may be requested during normal work hours by calling the District 6 NMOSE Office at 505-383-4000, at least 48-hours in advance. NMOSE inspection will occur dependant on personnel availability.
7. A NMOSE Plugging Record (available at: <http://www.ose.state.nm.us/PDF/WellDrillers/WD-11.pdf>) itemizing actual abandonment process and materials used shall be filed with the State Engineer (NMOSE, 5550 San Antonio Drive NE, Albuquerque, NM 87109-4127), within 20 days after completion of well plugging. Please attach a copy of these plugging conditions.

The NMOSE Well Plugging Plans of Operation, as annotated, are hereby approved with the aforesaid conditions applied.

Witness my hand and seal this 6th day of November, 2014

By:


Jennifer M. Alford
Water Resource Specialist
NMOSE District I



WELL PLUGGING PLAN OF OPERATIONS



NOTE: A Well Plugging Plan of Operations shall be filed with and accepted by the Office of the State Engineer prior to plugging.

I. FILING FEE: There is no filing fee for this form.

II. GENERAL / WELL OWNERSHIP:

Existing Office of the State Engineer POD Number (Well Number) for well to be plugged: Wingate 90
Name of well owner: U.S. Army
Mailing address: 5338 Montgomery NE Suite 300/400
City: Albuquerque State: NM Zip code: 87109
Phone number: 505-342-3139 E-mail: David.W.Henry@usace.army.mil

III. WELL DRILLER INFORMATION:

Well Driller contracted to provide plugging services: Geomechanics Southwest, Inc.
New Mexico Well Driller License No.: WD-1522 Expiration Date: April 30, 2015

IV. WELL INFORMATION:

Note: A copy of the existing Well Record for the well to be plugged should be attached to this plan.

- 1) GPS Well Location: Latitude: 35 deg, 31 min, 40.5156 sec
Longitude: 108 deg, 35 min, 51.8568 sec, NAD 83
- 2) Reason(s) for plugging well: Well is located in FWDA parcel 10B, was installed in 1963, and is used only for water level measurement. The well is no longer needed for any of the FWDA programs.
- 3) Was well used for any type of monitoring program? unknown If yes, please use section VII of this form to detail what hydrogeologic parameters were monitored. If the well was used to monitor contaminated or poor quality water, authorization from the New Mexico Environment Department may be required prior to plugging.
- 4) Does the well tap brackish, saline, or otherwise poor quality water? No If yes, provide additional detail, including analytical results and/or laboratory report(s):
- 5) Static water level: 11.7 feet below land surface / feet above land surface (circle one)

- 6) Depth of the well: 98 feet
- 7) Inside diameter of innermost casing: 8.0 inches.
- 8) Casing material: steel
- 9) The well was constructed with:
 an open-hole production interval, state the open interval: _____
 a well screen or perforated pipe, state the screened interval(s): Yes, but interval unknown
- 10) What annular interval surrounding the artesian casing of this well is cement-grouted? NA
- 11) Was the well built with surface casing? Yes If yes, is the annulus surrounding the surface casing grouted or otherwise sealed? Unknown If yes, please describe: Steel above-ground protective casing with Portland cement plug and pad. Presence of a seal is unknown.
- 12) Has all pumping equipment and associated piping been removed from the well? yes If not, describe remaining equipment and intentions to remove prior to plugging in Section VII of this form.

V. DESCRIPTION OF PLANNED WELL PLUGGING:

Note: If this plan proposes to plug an artesian well in a way other than with cement grout, placed bottom to top with a tremie pipe, a detailed diagram of the well showing proposed final plugged configuration shall be attached, as well as any additional technical information, such as geophysical logs, that are necessary to adequately describe the proposal.

- 1) Describe the method by which cement grout shall be placed in the well, or describe requested plugging methodology proposed for the well: The well will be plugged in accordance with 19.27.4.30 C NMAC using a neat cement slurry. The well will be filled from the bottom upwards to land surface using a tremie pipe. If no annular seal is present, the upper 20 feet of annulus will be grouted.
- 2) Will well head be cut-off below land surface after plugging? Yes

VI. PLUGGING AND SEALING MATERIALS:

Note: The plugging of a well that taps poor quality water may require the use of a specialty cement or specialty sealant

- 1) For plugging intervals that employ cement grout, complete and attach Table A.
- 2) For plugging intervals that will employ approved non-cement based sealant(s), complete and attach Table B.
- 3) Theoretical volume of grout required to plug the well to land surface: 255.9 gal. (34.2 ft³) ✓
- 4) Type of Cement proposed: Portland Type I/II
- 5) Proposed cement grout mix: 7.4 ^{See TABLE A} gallons of water per 94 pound sack of Portland cement.
- 6) Will the grout be: _____ batch-mixed and delivered to the site
 mixed on site

7) Grout additives requested, and percent by dry weight relative to cement: 3-5% bentonite

8) Additional notes and calculations:

VII. ADDITIONAL INFORMATION: List additional information below, or on separate sheet(s):

#3: The well was installed in 1963 in parcel 10B for reasons unknown. There are no well logs for this well.

VIII. SIGNATURE:

I, David Henry, say that I have carefully read the foregoing Well Plugging Plan of Operations and any attachments, which are a part hereof; that I am familiar with the rules and regulations of the State Engineer pertaining to the plugging of wells and will comply with them, and that each and all of the statements in the Well Plugging Plan of Operations and attachments are true to the best of my knowledge and belief.

David Henry
US Army Corps of Engineers
Signature of Applicant

9/10/14
Date

IX. ACTION OF THE STATE ENGINEER:

This Well Plugging Plan of Operations is:

- Approved subject to the attached conditions.
- Not approved for the reasons provided on the attached letter.

Witness my hand and official seal this 7th day of November, 2014

Scott A. Verhines, State Engineer
By: *[Signature]*

TABLE A - For plugging intervals that employ cement grout. Start with deepest interval.

	Interval 1 – deepest	Interval 2	Interval 3 – most shallow
			Note: if the well is non-artesian and breaches only one aquifer, use only this column.
Top of proposed interval of grout placement (ft bgl)			0
Bottom of proposed interval of grout placement (ft bgl)			98.0
Theoretical volume of grout required per interval (gallons)			255.9 gal. (34.2 ft ³)
Proposed cement grout mix gallons of water per 94-lb. sack of Portland cement			MAX 7.2 GALS/SK TOTAL AA 3% BENTONITE DDW 7.4 MAX 8.5 GALS/SK TOTAL AA 5% BENTONITE DDW
Mixed on-site or batch-mixed and delivered?			Mixed on-site
Grout additive 1 requested			Bentonite
Additive 1 percent by dry weight relative to cement			3-5%
Grout additive 2 requested			n/a
Additive 2 percent by dry weight relative to cement			n/a

TABLE B - For plugging intervals that will employ approved non-cement based sealant(s). Start with deepest interval.

	Interval 1 – deepest	Interval 2	Interval 3 – most shallow
			Note: if the well is non-artesian and breaches only one aquifer, use only this column.
Top of proposed interval of sealant placement (ft bgl)			n/a
Bottom of proposed sealant or grout placement (ft bgl)			n/a
Theoretical volume of sealant required per interval (gallons)			n/a
Proposed abandonment sealant (manufacturer and trade name)			n/a



WELL PLUGGING PLAN OF OPERATIONS



NOTE: A Well Plugging Plan of Operations shall be filed with and accepted by the Office of the State Engineer prior to plugging.

I. FILING FEE: There is no filing fee for this form.

II. GENERAL / WELL OWNERSHIP:

Existing Office of the State Engineer POD Number (Well Number) for well to be plugged: Wingate 89

Name of well owner: U.S. Army

Mailing address: 5338 Montgomery NE Suite 300/400

City: Albuquerque State: NM Zip code: 87109

Phone number: 505-342-3139 E-mail: David.W.Henry@usace.army.mil

III. WELL DRILLER INFORMATION:

Well Driller contracted to provide plugging services: Geomechanics Southwest, Inc.

New Mexico Well Driller License No.: WD-1522 Expiration Date: April 30, 2015

IV. WELL INFORMATION:

Note: A copy of the existing Well Record for the well to be plugged should be attached to this plan.

1) GPS Well Location: Latitude: 35 deg, 31 min, 36.5052 sec
Longitude: 108 deg, 35 min, 35.9952 sec, NAD 83

2) Reason(s) for plugging well: Well is located in FWDA parcel 10B, was installed in 1963, and is used only for water level measurement. The well is no longer needed for any of the FWDA programs.

3) Was well used for any type of monitoring program? unknown If yes, please use section VII of this form to detail what hydrogeologic parameters were monitored. If the well was used to monitor contaminated or poor quality water, authorization from the New Mexico Environment Department may be required prior to plugging.

4) Does the well tap brackish, saline, or otherwise poor quality water? No If yes, provide additional detail, including analytical results and/or laboratory report(s):

5) Static water level: 13.5 feet below land surface / feet above land surface (circle one)

- 6) Depth of the well: 100 feet
- 7) Inside diameter of innermost casing: 12.0 inches.
- 8) Casing material: steel
- 9) The well was constructed with:
 an open-hole production interval, state the open interval: _____
 a well screen or perforated pipe, state the screened interval(s): Yes, but interval unknown
- 10) What annular interval surrounding the artesian casing of this well is cement-grouted? NA
- 11) Was the well built with surface casing? Yes If yes, is the annulus surrounding the surface casing grouted or otherwise sealed? Unknown If yes, please describe: Steel above-ground protective casing with Portland cement plug and pad. Presence of a seal is unknown.
- 12) Has all pumping equipment and associated piping been removed from the well? yes If not, describe remaining equipment and intentions to remove prior to plugging in Section VII of this form.

V. DESCRIPTION OF PLANNED WELL PLUGGING:

Note: If this plan proposes to plug an artesian well in a way other than with cement grout, placed bottom to top with a tremie pipe, a detailed diagram of the well showing proposed final plugged configuration shall be attached, as well as any additional technical information, such as geophysical logs, that are necessary to adequately describe the proposal.

- 1) Describe the method by which cement grout shall be placed in the well, or describe requested plugging methodology proposed for the well: The well will be plugged in accordance with 19.27.4.30 C NMAC using a neat cement slurry. The well will be filled from the bottom upwards to land surface using a tremie pipe. If no annular seal is present, the upper 20 feet of annulus will be grouted.
- 2) Will well head be cut-off below land surface after plugging? Yes

VI. PLUGGING AND SEALING MATERIALS:

Note: The plugging of a well that taps poor quality water may require the use of a specialty cement or specialty sealant

- 1) For plugging intervals that employ cement grout, complete and attach Table A.
- 2) For plugging intervals that will employ approved non-cement based sealant(s), complete and attach Table B.
- 3) Theoretical volume of grout required to plug the well to land surface: 587.5 gal. (78.5 ft³) ✓
- 4) Type of Cement proposed: Portland Type I/II
- 5) Proposed cement grout mix: 7.4 ^{See Table A} gallons of water per 94 pound sack of Portland cement.
- 6) Will the grout be: _____ batch-mixed and delivered to the site
 mixed on site

7) Grout additives requested, and percent by dry weight relative to cement: 3-5% bentonite

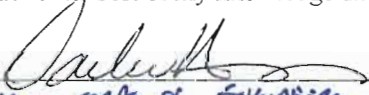
8) Additional notes and calculations:

VII. ADDITIONAL INFORMATION: List additional information below, or on separate sheet(s):

#3: The well was installed in 1963 in parcel 10B for reasons unknown. There are no well logs for this well.

VIII. SIGNATURE:

I, David Henry, say that I have carefully read the foregoing Well Plugging Plan of Operations and any attachments, which are a part hereof; that I am familiar with the rules and regulations of the State Engineer pertaining to the plugging of wells and will comply with them, and that each and all of the statements in the Well Plugging Plan of Operations and attachments are true to the best of my knowledge and belief.


US Army Corps of ENGINEERS
Signature of Applicant

9/10/2014
Date

IX. ACTION OF THE STATE ENGINEER:

This Well Plugging Plan of Operations is:

- Approved subject to the attached conditions.
 Not approved for the reasons provided on the attached letter.

Witness my hand and official seal this 7th day of November, 2014

Scott A. Verhines, State Engineer


By: 

TABLE A - For plugging intervals that employ cement grout. Start with deepest interval.

	Interval 1 – deepest	Interval 2	Interval 3 – most shallow
			Note: if the well is non-artesian and breaches only one aquifer, use only this column.
Top of proposed interval of grout placement (ft bgl)			0
Bottom of proposed interval of grout placement (ft bgl)			100.0
Theoretical volume of grout required per interval (gallons)			587.5 gal. (78.5 ft ³)
Proposed cement grout mix gallons of water per 94-lb. sack of Portland cement			<i>MAX 7.2 GALS/SK TOTAL FOR 3% BENTONITE BDWC 7.4 MAX 8.5 GALS/SK TOTAL FOR 5% BENTONITE BDWC</i>
Mixed on-site or batch-mixed and delivered?			Mixed on-site
Grout additive 1 requested			Bentonite
Additive 1 percent by dry weight relative to cement			3-5%
Grout additive 2 requested			n/a
Additive 2 percent by dry weight relative to cement			n/a

TABLE B - For plugging intervals that will employ approved non-cement based sealant(s). Start with deepest interval.

	Interval 1 – deepest	Interval 2	Interval 3 – most shallow
			Note: if the well is non-artesian and breaches only one aquifer, use only this column.
Top of proposed interval of sealant placement (ft bgl)			n/a
Bottom of proposed sealant or grout placement (ft bgl)			n/a
Theoretical volume of sealant required per interval (gallons)			n/a
Proposed abandonment sealant (manufacturer and trade name)			n/a

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WELL PLUGGING PLAN OF OPERATIONS



NOTE: A Well Plugging Plan of Operations shall be filed with and accepted by the Office of the State Engineer prior to plugging.

I. FILING FEE: There is no filing fee for this form.

II. GENERAL / WELL OWNERSHIP:

Existing Office of the State Engineer POD Number (Well Number) for well to be plugged: Wingate 91

Name of well owner: U.S. Army

Mailing address: 5338 Montgomery NE Suite 300/400

City: Albuquerque

State: NM

Zip code: 87109

Phone number: 505-342-3139

E-mail: David.W.Henry@usace.army.mil

III. WELL DRILLER INFORMATION:

Well Driller contracted to provide plugging services: Geomechanics Southwest, Inc.

New Mexico Well Driller License No.: WD-1522

Expiration Date: April 30, 2015

IV. WELL INFORMATION:

Note: A copy of the existing Well Record for the well to be plugged should be attached to this plan.

- 1) GPS Well Location: Latitude: 35 deg, 31 min, 44.0292 sec
Longitude: 108 deg, 36 min, 01.4040 sec, NAD 83
- 2) Reason(s) for plugging well: Well is located in FWDA parcel 10B, was installed in 1963, and is used only for water level measurement. The well is no longer needed for any of the FWDA programs.
- 3) Was well used for any type of monitoring program? unknown If yes, please use section VII of this form to detail what hydrogeologic parameters were monitored. If the well was used to monitor contaminated or poor quality water, authorization from the New Mexico Environment Department may be required prior to plugging.
- 4) Does the well tap brackish, saline, or otherwise poor quality water? No If yes, provide additional detail, including analytical results and/or laboratory report(s):
- 5) Static water level: 12.4 feet below land surface / feet above land surface (circle one)

- 6) Depth of the well: 112.0 feet
- 7) Inside diameter of innermost casing: 12.0 inches.
- 8) Casing material: steel
- 9) The well was constructed with:
an open-hole production interval, state the open interval:
a well screen or perforated pipe, state the screened interval(s): Yes, but interval unknown.
- 10) What annular interval surrounding the artesian casing of this well is cement-grouted? NA
- 11) Was the well built with surface casing? Yes If yes, is the annulus surrounding the surface casing grouted or otherwise sealed? unknown If yes, please describe: Steel above-ground protective casing with Portland cement plug and pad. Presence of a seal is unknown.
- 12) Has all pumping equipment and associated piping been removed from the well? yes If not, describe remaining equipment and intentions to remove prior to plugging in Section VII of this form.

V. DESCRIPTION OF PLANNED WELL PLUGGING:

Note: If this plan proposes to plug an artesian well in a way other than with cement grout, placed bottom to top with a tremie pipe, a detailed diagram of the well showing proposed final plugged configuration shall be attached, as well as any additional technical information, such as geophysical logs, that are necessary to adequately describe the proposal.

- 1) Describe the method by which cement grout shall be placed in the well, or describe requested plugging methodology proposed for the well: The well will be plugged in accordance with 19.27.4.30 C NMAC using a neat cement slurry. The well will be filled from the bottom upwards to land surface using a tremie pipe. If no annular seal is present, the upper 20 feet of annulus will be grouted.
- 2) Will well head be cut-off below land surface after plugging? Yes

VI. PLUGGING AND SEALING MATERIALS:

Note: The plugging of a well that taps poor quality water may require the use of a specialty cement or specialty sealant

- 1) For plugging intervals that employ cement grout, complete and attach Table A.
- 2) For plugging intervals that will employ approved non-cement based sealant(s), complete and attach Table B.
- 3) Theoretical volume of grout required to plug the well to land surface: 658.24 gal. (88 ft³) ✓
- 4) Type of Cement proposed: Portland Type I/II
- 5) Proposed cement grout mix: 7.4 See Table A gallons of water per 94 pound sack of Portland cement.
- 6) Will the grout be: batch-mixed and delivered to the site
X mixed on site

7) Grout additives requested, and percent by dry weight relative to cement: 3-5% bentonite

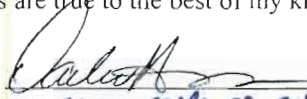
8) Additional notes and calculations:

VII. ADDITIONAL INFORMATION: List additional information below, or on separate sheet(s):

#3: The well was installed in 1963 in parcel 10B for reasons unknown. There are no well logs for this well.

VIII. SIGNATURE:

I, David Henry, say that I have carefully read the foregoing Well Plugging Plan of Operations and any attachments, which are a part hereof; that I am familiar with the rules and regulations of the State Engineer-pertaining to the plugging of wells and will comply with them, and that each and all of the statements in the Well Plugging Plan of Operations and attachments are true to the best of my knowledge and belief.


US Army CORPS OF ENGINEERS
Signature of Applicant

9/10/14
Date

IX. ACTION OF THE STATE ENGINEER:

This Well Plugging Plan of Operations is:

Approved subject to the attached conditions.
 Not approved for the reasons provided on the attached letter.

Witness my hand and official seal this 7th day of November, 2014

Scott A. Verhines, State Engineer

By: 

TABLE A - For plugging intervals that employ cement grout. Start with deepest interval.

	Interval 1 – deepest	Interval 2	Interval 3 – most shallow
			Note: if the well is non-artesian and breaches only one aquifer, use only this column.
Top of proposed interval of grout placement (ft bgl)			0
Bottom of proposed interval of grout placement (ft bgl)			112.0 ft.
Theoretical volume of grout required per interval (gallons)			658.24 gal. (88 ft ³)
Proposed cement grout mix gallons of water per 94-lb. sack of Portland cement			<i>MAX 7.2 GAL / SACK TOTAL FOR 3% BENTONITE BDWC 7.4 MAX 8.5 GAL / SACK TOTAL FOR 5% BENTONITE BDWC</i>
Mixed on-site or batch-mixed and delivered?			Mixed on-site
Grout additive 1 requested			Bentonite
Additive 1 percent by dry weight relative to cement			3-5%
Grout additive 2 requested			n/a
Additive 2 percent by dry weight relative to cement			n/a

TABLE B - For plugging intervals that will employ approved non-cement based sealant(s). Start with deepest interval.

	Interval 1 – deepest	Interval 2	Interval 3 – most shallow
			Note: if the well is non-artesian and breaches only one aquifer, use only this column.
Top of proposed interval of sealant placement (ft bgl)			n/a
Bottom of proposed sealant or grout placement (ft bgl)			n/a
Theoretical volume of sealant required per interval (gallons)			n/a
Proposed abandonment sealant (manufacturer and trade name)			n/a

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98-112' wells cored in the
@ NORTH EDGE OF OUTCROP
of ~N-DIPPING SCARP, : HAS ESSENTIAL FULL THICKNESS
of TC
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