

Final

Revised Work Plan Addendum

Abandon and Plug Artesian Wells #68 and #69 Fort Wingate Depot Activity, McKinley County, New Mexico

Contract Number: W912PP21C0025

Submitted to:

United States Army Corps of Engineers
Albuquerque District
4101 Jefferson Plaza Northeast
Albuquerque, New Mexico 87109

Prepared for:

Base Realignment and Closure Division

March 2023

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			5d. WORK UNIT NUMBER		
7. PERFORMING ORGANIZATION NAME(S) AND ADDRESS(ES) Dawson Solutions, LLC 4100 Market St Suite 100, Huntsville, AL 35808			8. PERFORMING ORGANIZATION REPORT NUMBER N/A		
9. SPONSORING/MONITORING AGENCY NAME(S) AND ADDRESS(ES) U.S. Army Corps of Engineers, Albuquerque District 4101 Jefferson Plaza NE Albuquerque, NM, 87109 Project Manager: Alan Soicher, PG (CESPA)			10. SPONSOR/MONITOR'S ACRONYM(S) USACE		
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13. SUPPLEMENTARY NOTES N/A					
14. ABSTRACT This Revised Work Plan Addendum accompanies the Final Work Plan to Abandon and Plug Artesian Wells #68 and #69 at Fort Wingate Depot Activity, McKinley County, New Mexico. Based on downhole video surveys performed in October 2022, additional activities are required to complete the abandonment and plugging process for artesian wells #68 and #69 at Fort Wingate Activity Depot, McKinley County, New Mexico.					
15. SUBJECT TERMS Fort Wingate Depot Activity, Abandon and Plug Artesian Wells #68 and #69.					
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a. REPORT U	b. ABSTRACT U	c. THIS PAGE U			19b. TELEPHONE NUMBER (Include area code) (817) 789-0453

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ATTACHMENTS

ATTACHMENT 1	Project Schedule
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ACRONYMS AND ABBREVIATIONS

API	American Petroleum Institute
ASTM	American Society of Testing of Materials
bgs	below ground surface
BRAC	Base Realignment and Closure
CESPA	U.S. Army Corps of Engineers, Albuquerque District
DAWSON	Dawson Solutions, LLC
ft	Feet
FWDA	Fort Wingate Depot Activity
Layne	Layne, A Granite Company
NMOSE	New Mexico Office of the State Engineer
TD	Total Depth
USACE	U.S. Army Corps of Engineers

1.0 INTRODUCTION

This Revised Work Plan Addendum accompanies the Final Work Plan for Abandonment and Plugging of Artesian Wells #68 and #69 at the Fort Wingate Depot Activity (FWDA) in McKinley County (DAWSON, 2022) in support of the Base Realignment and Closure (BRAC) Division under the guidance of the U.S. Army Corps of Engineers (USACE), Albuquerque District (CESPA), Contract Number W912PP21C0025. Dawson Solutions, LLC (DAWSON) completed a condition assessment of both wells in October 2022. Observed conditions differ from those described in previous documents and require modification of procedures described in the approved Final Work Plan. The proposed revised approach required to address the differing site conditions along with additional technical concerns raised by the USACE in recent communications are provided herein.

1.1 PURPOSE AND SCOPE

The objective of this task order is to abandon and plug artesian Wells #68 and #69 at FWDA with no safety incidents in compliance with regulatory requirements, achieving regulatory approval from the New Mexico Office of the State Engineer (NMOSE). This Revised Work Plan Addendum outlines additional activities required for abandonment and plugging of artesian Wells #68 and #69 at FWDA based on downhole video surveys performed in October 2022.

2.0 DESCRIPTION OF WORK

During the initial condition assessments in October 2022, downhole video surveys showed significant scaling on the inside casings of Wells #68 and #69, preventing collection of the cement bond logs. In addition, the downhole surveys identified obstructions in both wells which prevented the equipment from accessing the total well depths. Figures 1 and 2 include photographs of the well condition assessments from the downhole survey.

DAWSON will contact the NMOSE to update the Well Plugging Plan of Operations with the following procedures. NMOSE has previously indicated that a new plan submittal is not required. DAWSON can provide email notification of the new procedures and NMOSE will update the existing plan prior to issuing approval.

2.1 PERFORATION ZONES AND RATIONALE

DAWSON will perforate both wells from a depth of 500 feet (ft) below ground surface (bgs) to a depth of 750 ft bgs as discussed with USACE. Figures 3 and 4 show the perforation zones for wells 68 and 69, respectively. Perforations will also be installed from 0 to 100 feet below ground surface. A geologic cross-section of the administrative area was included as Figure 2-3.5B in the *Final Northern Area Groundwater RCRA Facility Investigation Report* prepared by HDR in December 2022 and is included as Figure 5 of this Revised Work Plan Addendum. The cross-section indicates that the Sandstone of the Painted Desert Member of the Petrified Forest Formation underlies the alluvium in the administrative area at a depth of approximately 180 to 220 ft bgs. This unit is not depicted on the well construction logs. This bedrock unit is described as sandstone with interbedded sandstone and siltstone. It has been noted that where the saturated sandstone unit is overlain by mudstone/claystone, groundwater becomes confined and the potentiometric surface elevation in bedrock is higher than the water table elevation of the overlying unconfined alluvial aquifer (HDR, 2022). Installing perforations at the surface will help ensure that there is no leaking from the sandstone unit through the annular seal to the surface.

2.2 ABANDONMENT AND PLUGGING PROCESS

To complete the well abandonment, the following tasks will be performed:

WELL 68

1. A four-person team will remove and dispose of the well covering.
2. Prior to commencing well decommissioning operations, accumulated water in the cistern will be pumped out and discharged to the concrete swale on Palomino Drive to maximize storage capacity in the cistern.
3. Using a wire brush assembly on a 5.5-inch outer-diameter reverse circulation drill pipe, DAWSON subcontractor, Layne Christensen (Layne) will simultaneously

brush and airlift within the 500 to 750-foot depth intervals. The removed sediment and water will flow to a baffled holding tank prior to discharge to Palomino Drive.

4. Layne will lower tooling to the obstruction at 760 feet bgs (see Figure 1) and complete a TV survey to determine its orientation and identify appropriate fishing tools.
5. Attempts will be made to remove the obstruction from Well #68 using grapples and/or spears. Recovery operations will cease after 20 hours or if loss of equipment is a significant risk.
6. If the obstruction is removed, repeat step 3 to brush the inside casing and remove sediment to the bottom of the well (1,215 feet bgs). If the obstruction is not removed, proceed to Step 7.
 - a. Install tremie to the bottom of the well, using a pressure control head to stop the upward flow of water. Pump ASTM Type I/II or API Class C cement from total depth (TD) to approximately 850' bgs and trip back the tremie pipe. The type of cement used will be based on NMOSE approval. Hold pressure on cement for four hours. Trip the tooling out of well.
7. Using a star wheel perforator and the RD20 rig, Layne will perforate the well casing from 500 to 750 feet bgs (see Figure 3). Layne has allocated 250 feet of perforations (i.e., four passes of the perforator over each 250-foot interval). Layne will then perforate the casing from 0 to 100 feet bgs.
 - a. A bridge plug or packer will be installed at 500 ft bgs and ASTM Type I/II or API Class C cement will be pumped via tremie and an oilfield cement pump until the pressure reaches approximately 500 psi. The tremie will then be disconnected and cement will be pumped to surface.
 - b. Cementitious water will be diverted to the nearby cistern for settling and discharged to Palomino Drive. Once grouting operations begin, water will not be discharged directly to the ground and will instead be diverted to the cistern. If needed, the cistern will first be dewatered by pumping to create capacity. The amount of water in the cistern will be managed and the pH of the water discharged during grouting will be neutralized with water already in the cistern. A pH meter will be on-site to collect field measurements of water discharged from grouting operations. A pH neutralizer will be available on site and may be used if pH remains too high (above 8) after mixing with water in the cistern.
8. The grout volume used in the well will be compared to the anticipated volume of 24 cubic yards based on the volume inside the casing. If needed, the well will be topped off with grout after removing the plug, tremie line, and any other tooling.

9. DAWSON will remove the well vault using a backhoe and transport the material for off-site disposal as construction waste; the former well vault void will be backfilled with clean fill from an off-site source.

WELL 69

1. A four-person team will remove and dispose of the well covering.
2. Prior to commencing well decommissioning operations, accumulated water in the cistern will be pumped out and discharged to the concrete swale on Palomino Drive to maximize storage capacity in the cistern.
3. Using a wire brush assembly on a 5.5-inch outer-diameter reverse circulation drill pipe, DAWSON will simultaneously brush and airlift within 500 to 750-foot, and as required to pass tooling through the well to the top of the obstruction at 893 ft bgs. The removed sediment and water will flow to a baffled holding tank prior to discharge to Palomino Drive.
4. Layne will lower tooling to the obstruction at 893 feet and complete a TV survey to determine its orientation and identify appropriate fishing tools.
5. Attempts will be made to remove the obstruction from Well #68 using grapples and/or spears. Recovery operations will cease after 20 hours or if loss of equipment is a significant risk.
6. If the obstruction is removed, repeat step 3 to clean casing and remove sediment to the bottom of the well (1,350 ft bgs). If the obstruction is not removed, proceed to Step 7.
 - a. Install tremie to bottom, using a pressure control head to stop the flow. Pump ASTM Type I/II or API Class C cement from TD to approximately 850' and trip back tremie pipe. Hold pressure on cement for 4 hours. Trip tooling out of hole.
7. Using a star wheel perforator, the RD20 rig will perforate the well casing from 500 to 750 feet. Layne has allocated 250 feet of perforations (i.e., four passes of the perforator over each 250-foot interval). The casing will then be perforated from 0 to 100 feet bgs.
 - a. A bridge plug or packer will be installed at approximately 500 ft bgs and ASTM Type I/II or API Class C cement will be pumped via tremie and an oilfield cement pump until the pressure reaches 500 psi. The tremie will then be disconnected and cement will be pumped to surface.
 - b. Cementitious water will be diverted to the nearby cistern for settling and discharged to Palomino Drive. Once grouting operations begin, water will not be discharged directly to the ground and will instead be diverted to the cistern. If needed, the cistern will first be pumped to create

capacity. The amount of water in the cistern will be managed and the pH of the water discharged during grouting will be neutralized with water already in the cistern. A pH meter will be on-site to collect field measurements of water discharged from grouting operations. A pH neutralizer will be available on site and may be used if pH remains too high (above 8) after mixing with water in the cistern.

8. The grout volume used in the well will be compared to the anticipated volume of 24 cubic yards based on the volume inside the casing. If needed, the well will be topped off with grout after removing the plug, tremie line, and any other tooling.
9. DAWSON will remove the well vault using a backhoe and transport the material for off-site disposal as construction waste; the former well vault void will be backfilled with clean fill from an off-site source.

The following activities will be communicated, via telephone, as follows:

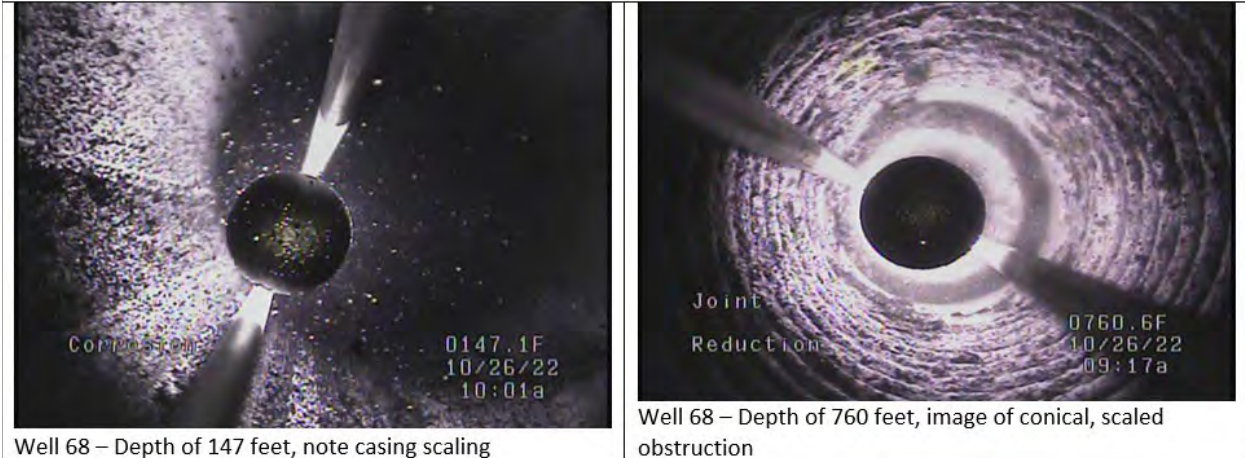
- Obstruction removal efforts for Wells #68 and #69 - If removal of the obstructions is not successful, DAWSON will notify the USACE Project Manager, seek to obtain their confirmation of notification, and continue the abandonment process, as described above.
- DAWSON will notify the USACE Project Manager immediately of any issues with implementation or deviations of the processes described herein are encountered.

3.0 REFERENCES

- Anderholm et al., 1994. Ground-Water Recharge near Santa Fe, North-Central New Mexico: U.S. Geological Survey Open-File Report, 68 p.
- Brown, David, ed. 1994. Biotic Communities: Southwestern United States and Northwestern Mexico. University of Utah Press, Salt Lake City. 342 pp.
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- Lancaster, 2022. One-Page Place Assessment: Gallup, New Mexico located in the Upper Puerco Subwatershed within the Lower Colorado Watershed. <http://www.harvestingrainwater.com/wp-content/uploads/2009/10/One-Page-Place-Assessment-Gallup-NM.xlsx.pdf>. Accessed January 17, 2022.
- USATHAMA (United States Army Toxic and Hazardous Materials Agency), 1980. Installation Assessment of Fort Wingate Army Depot Activity, Report No. 136. January 1980.
- USDA (U.S. Department of Agriculture), 2005. Soil Survey of McKinley County Area, McKinley County and Parts of Cibola and San Juan Counties. Natural Resources Conservation Service.
- USGS (United States Geologic Survey), 1955. Geology and Ground-Water Supplies of the Fort Wingate Indian School Area, McKinley County, New Mexico. Geological Survey Circulation 360. Final.
- USGS, 2011. Final RCRA Facility Investigation Report, Parcel 22, Fort Wingate Depot Activity, McKinley County, New Mexico. Fort Worth District. December.
- Walvoord et al., 2002. Deep Arid System Hydrodynamics. Equilibrium States and Response Times in Thick Desert Vadose Zones: Water Resources Research, v. 38, no. 12.

FIGURES

FIGURE 1



Well 68 – Depth of 147 feet, note casing scaling

Well 68 – Depth of 760 feet, image of conical, scaled obstruction

FIGURE 2



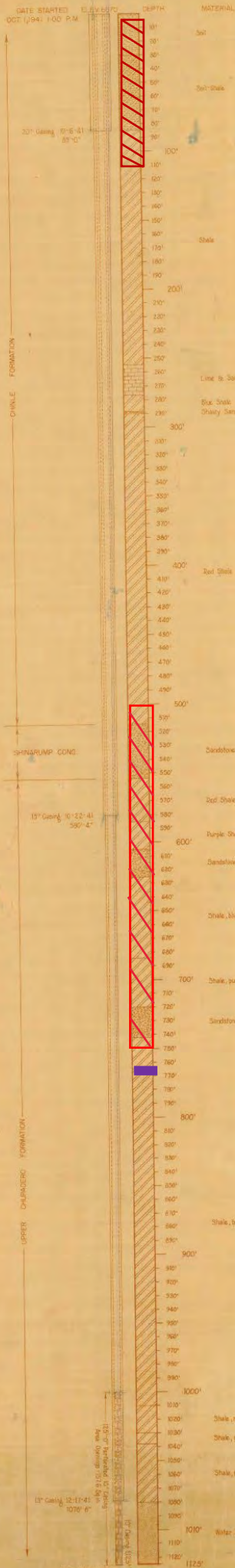
Well 69 – Depth of 365 feet, note scaling to extent that the casing is not visible and appears constricted.

Well 69 – Depth of 431 feet, note poor visibility

FIGURE 3
WELL 68 PROPOSED PERFORATION ZONES

WINGATE ORDNANCE DEPOT DEEP WELL

C-2-81

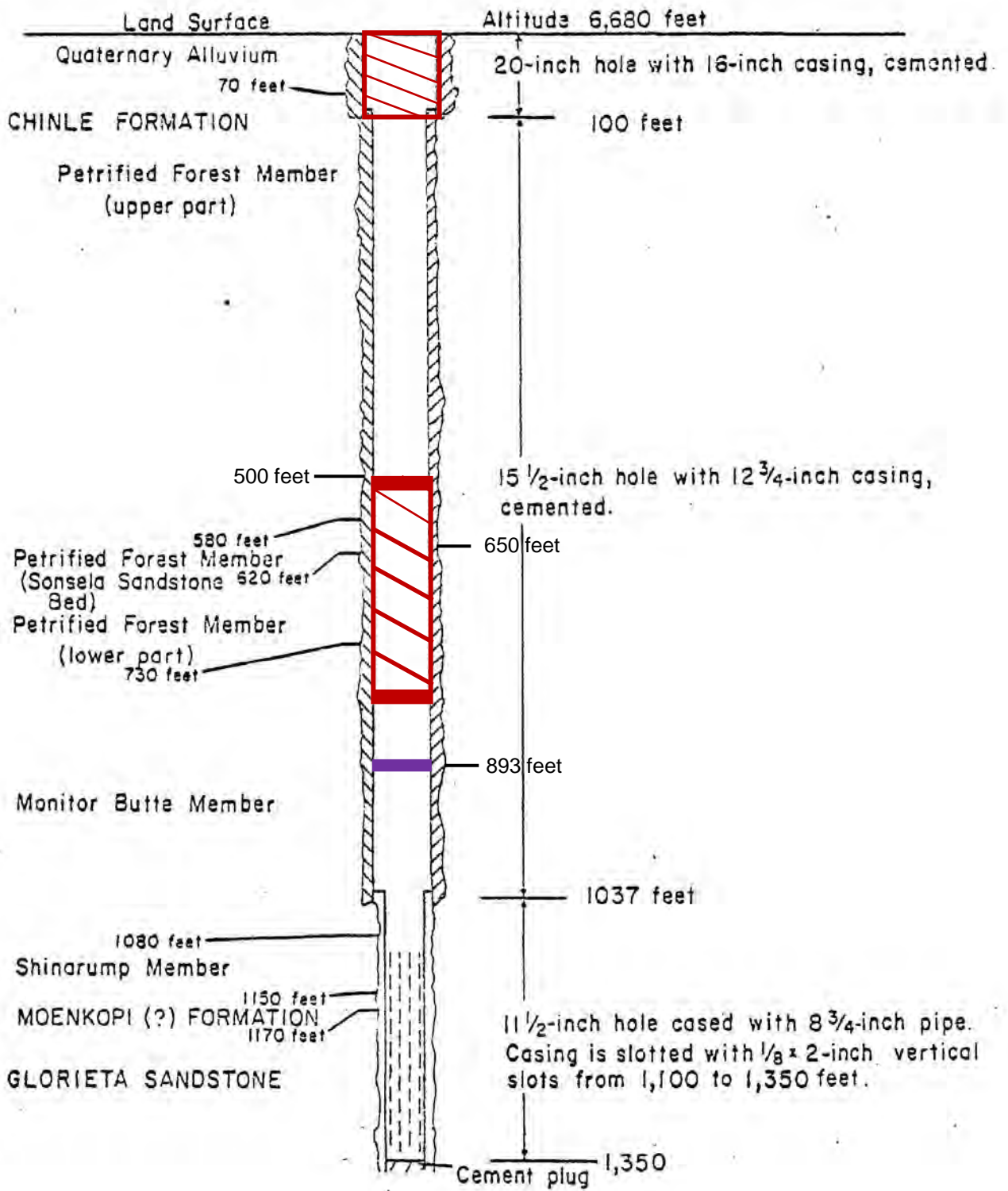


DATE ENDED
JAN 25, 1942

Key

- Well Casing Perforations
- Obstruction

FIGURE 4
WELL 69 PROPOSED PERFORATION ZONES



Key



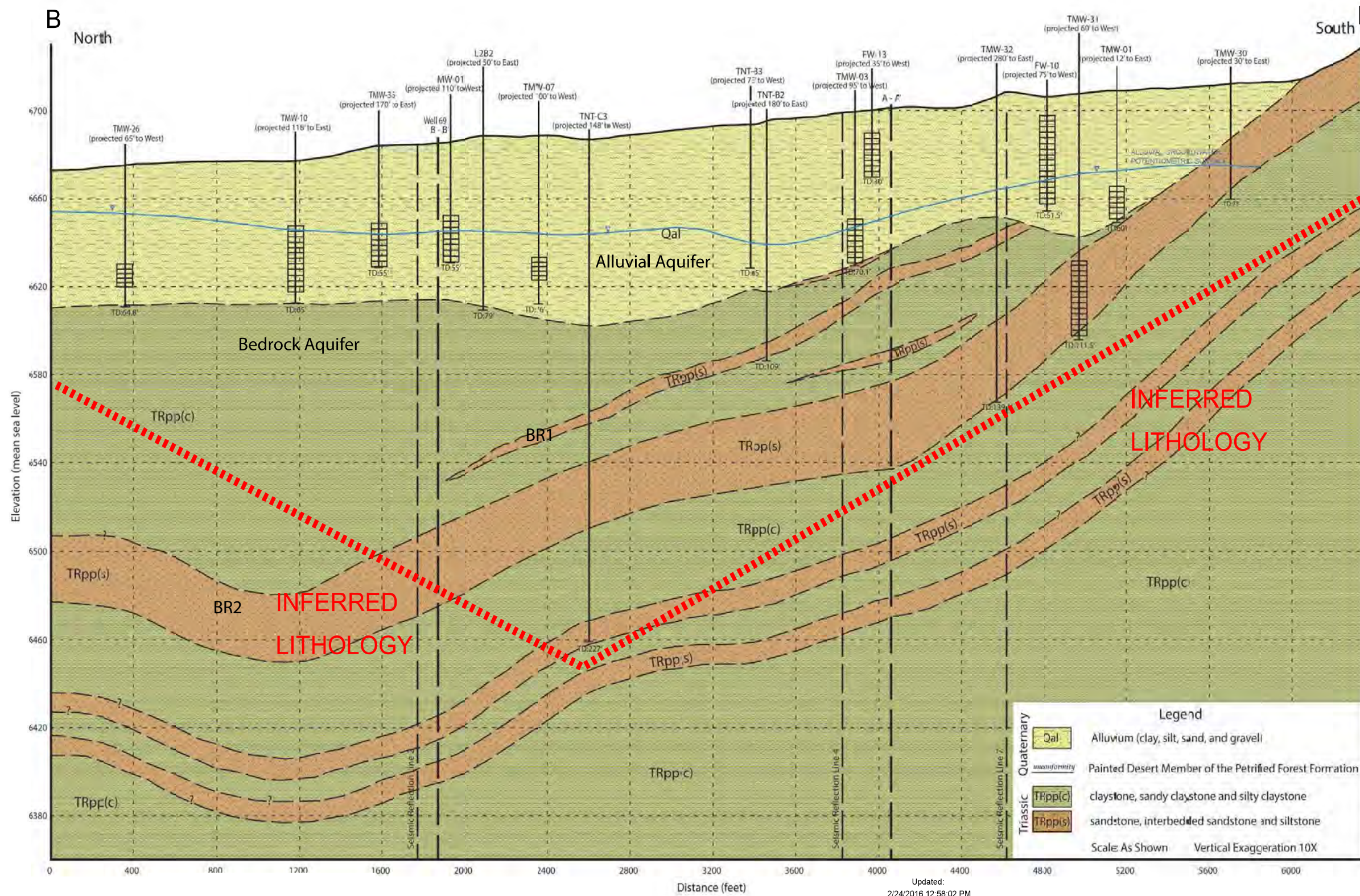
Well Casing Perforations



Obstruction

FIGURE 5

GEOLOGIC CROSS-SECTION
(FIGURE 2-3.5B FROM THE FINAL NORTHERN AREA
GROUNDWATER RCRA FACILITY INVESTIGATION REPORT, HDR,
2022)



Notes
 FWDA = Fort Wingate Depot Activity
 RFI = RCRA Facility Investigation
 Data generated by:
 AMEC Environment & Infrastructure,
 Inc.

Figure 2-3.5b
 Cross Section B to B'
 Northern Area
 Groundwater RFI

Fort Wingate Depot Activity
 McKinley County, New Mexico



SCHEDULE

ID	Task Name	Duration	Start	Finish	Predecessors	Resource Names	Actual Finish	% Complete	2022												2023												2024									
									Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	
1	oes	579 days	Wed 9/22/21	Mon 12/11/23				NA	78%																																	
2	Contract Award	0 days	Wed 9/22/21	Wed 9/22/21				NA	0%																																	
3	Period of Performance	522 days	Wed 9/22/21	Thu 9/21/23	2			NA	0%	Period of Performance																																
4	Task 1 Project Management Plan	518 days	Wed 9/22/21	Fri 9/15/23				NA	99%	Task 1 Project Management Plan																																
5	Project Management Plan	78 days	Wed 9/22/21	Fri 1/7/22			Fri 1/7/22	100%	Project Management Plan																																	
11	Project Kick-Off Meeting at Fort Wingate Depot Activity (FWDA)	277 days	Wed 10/27/21	Thu 11/17/22			Thu 11/17/22	100%	Project Kick-Off Meeting at Fort Wingate Depot Activity (FWDA)																																	
19	Project Management Review (PMR) Meeting	481 days	Tue 11/9/21	Tue 9/12/23				NA	67%																																	
43	Contractor's Progress, Status, and Management Report	483 days	Wed 11/10/21	Fri 9/15/23				NA	99%																																	
67	Task 2 Planning	453 days	Wed 9/22/21	Fri 6/16/23				NA	92%	Task 2 Planning																																
68	Work Plan with Quality Control Plan (QCP)	431 days	Wed 9/22/21	Wed 5/17/23			Wed 5/17/23	100%	Work Plan with Quality Control Plan (QCP)																																	
75	REVISED Work Plan Addendum	42 days	Thu 2/23/23	Fri 4/21/23				NA	2%	REVISED Work Plan Addendum																																
76	Prepare and Submit Draft REVISED Work Plan Addendum	5 days	Thu 2/23/23	Wed 3/1/23	2			NA	20%	Prepare and Submit Draft REVISED Work Plan Addendum																																
77	USACE and BRAC Review	14 days	Thu 3/2/23	Tue 3/21/23	76			NA	0%	USACE and BRAC Review																																
78	RTCs and red-line revision	5 days	Wed 3/22/23	Tue 3/28/23	77			NA	0%	RTCs and red-line revision																																
79	USACE and BRAC Review and Acceptance	10 days	Wed 3/29/23	Tue 4/11/23	78			NA	0%	USACE and BRAC Review and Acceptance																																
80	Prepare and Submit Final REVISED Work Plan Addendum	5 days	Wed 4/12/23	Tue 4/18/23	79			NA	0%	Prepare and Submit Final REVISED Work Plan Addendum																																
81	USACE and BRAC Acceptance of Final Work Plan and QCP	3 days	Wed 4/19/23	Fri 4/21/23	80			NA	0%	USACE and BRAC Acceptance of Final Work Plan and QCP																																
82	Well Plugging Plan of Operation	453 days	Wed 9/22/21	Fri 6/16/23				NA	89%	Well Plugging Plan of Operation																																
83	Prepare and Submit Preliminary Draft Well Plugging Plan of Operation	87 days	Wed 9/22/21	Thu 1/20/22	2		Thu 1/20/22	100%	Prepare and Submit Preliminary Draft Well Plugging Plan of Operation																																	
84	USACE and BRAC Review	5 days	Fri 1/21/22	Thu 1/27/22	83			NA	0%	USACE and BRAC Review																																
85	RTCs and red-line revision	2 days	Fri 1/28/22	Mon 1/31/22	84			NA	0%	RTCs and red-line revision																																
86	USACE and BRAC Review and Acceptance	269 days	Tue 6/7/22	Fri 6/16/23	85		Fri 6/16/23	100%	USACE and BRAC Review and Acceptance																																	
87	Prepare and Submit Draft Well Plugging Plan of Operation	9 days	Fri 6/3/22	Thu 6/16/22	86		Thu 6/16/22	100%	Prepare and Submit Draft Well Plugging Plan of Operation																																	
88	NMOSE Review	30 days	Fri 6/17/22	Thu 7/28/22	87			NA	0%	NMOSE Review																																
89	RTCs and red-line revision to USACE and BRAC for review	3 days	Fri 7/29/22	Tue 8/2/22	88			NA	0%	RTCs and red-line revision to USACE and BRAC for review																																
90	USACE and BRAC review and concurrence	5 days	Wed 8/3/22	Tue 8/9/22	89			NA	0%	USACE and BRAC review and concurrence																																

Project: Abandon and Plug Artesian Wells #68 and #69
Fort Wingate Depot Activity, McKinley County, New Mexico
Updated: Wed 3/1/23



ID	Task Name	Duration	Start	Finish	Predecessors	Resource Names	Actual Finish	% Complete	2022												2023												2024						
									Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar
91	Prepare and Submit Final Well Plugging Plan of Operation	0 days	Thu 6/16/22	Thu 6/16/22	90		Thu 6/16/22	100%																															
92	USACE, BRAC, and regulatory acceptance of Final Well Plugging Plan of Operation	2 days	Fri 6/17/22	Mon 6/20/22	91			0%																															
93	Accident Prevention Plan	284 days	Wed 9/22/21	Mon 10/24/22			Mon 10/24/22	100%																															
100	Task 3 Field Work	204 days	Mon 9/12/22	Thu 6/22/23				48%																															
101	Mobilization	33 days	Mon 9/12/22	Wed 10/26/22	92FS+2 days		Wed 10/26/22	100%																															
102	Condition Assessment	0 days	Wed 10/26/22	Wed 10/26/22	101		Wed 10/26/22	100%																															
103	Abandonment and Plugging of Wells #68 and #69	29 days	Mon 5/15/23	Thu 6/22/23				0%																															
104	Plug Well #68	12 days	Mon 5/15/23	Tue 5/30/23				0%																															
105	Submit Letter of Completion for Well #68	5 days	Wed 5/31/23	Tue 6/6/23	104			0%																															
106	Plug Well #69	12 days	Wed 5/31/23	Thu 6/15/23	104			0%																															
107	Submit Letter of Completion for Well #69	5 days	Fri 6/16/23	Thu 6/22/23	106			0%																															
108	Demobilization	2 days	Fri 6/16/23	Mon 6/19/23	106			0%																															
109	Task 4 Reporting	139 days	Wed 5/31/23	Mon 12/11/23				0%																															
110	Well Plugging Record	139 days	Wed 5/31/23	Mon 12/11/23				0%																															
111	Well Plugging Record for Well #68	21 days	Wed 5/31/23	Wed 6/28/23				0%																															
112	Submit Draft Well Plugging Record for Well #68	11 days	Wed 5/31/23	Wed 6/14/23	104			0%																															
113	USACE and BRAC Review	5 days	Thu 6/15/23	Wed 6/21/23	112			0%																															
114	Submit Final Well Plugging Record for Well #68	5 days	Thu 6/22/23	Wed 6/28/23	113			0%																															
115	Well Plugging Record for Well #69	21 days	Fri 6/16/23	Fri 7/14/23	106			0%																															
116	Submit Draft Well Plugging Record for Well #69	11 days	Fri 6/16/23	Fri 6/30/23	106			0%																															
117	USACE and BRAC Review	5 days	Mon 7/3/23	Fri 7/7/23	116			0%																															
118	Submit Final Well Plugging Record for Well #69	5 days	Mon 7/10/23	Fri 7/14/23	117			0%																															
119	Field Summary Report	125 days	Tue 6/20/23	Mon 12/11/23				0%																															
120	Prepare and Submit Draft Field Summary Report	66 days	Tue 6/20/23	Tue 9/19/23	108			0%																															
121	USACE and BRAC Review	22 days	Wed 9/20/23	Thu 10/19/23	120			0%																															
122	RTCs and red-line revision	11 days	Fri 10/20/23	Fri 11/3/23	121			0%																															
123	USACE and BRAC Review and Acceptance	10 days	Mon 11/6/23	Fri 11/17/23	122			0%																															
124	Prepare and Submit Final Field Summary Report	11 days	Mon 11/20/23	Mon 12/4/23	123			0%																															
125	USACE and BRAC Acceptance of Final Field Summary Report	5 days	Tue 12/5/23	Mon 12/11/23	124			0%																															

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