Form C-141
Page 5

State of New Mexico
Oil Conservation Division

Incident ID	NRM2019931908
District RP	
Facility ID	
Application ID	

Remediation Plan

Remediation Plan Checklist: ***Each of the following items must be included in the plan.***

☒ Detailed description of proposed remediation technique
☒ Scaled sitemap with GPS coordinates showing delineation points
☒ Estimated volume of material to be remediated
☒ Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC
☒ Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required)

Deferral Requests Only: ***Each of the following items must be confirmed as part of any request for deferral of remediation.***

☐ Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction.

☐ Extents of contamination must be fully delineated.

☐ Contamination does not cause an imminent risk to human health, the environment, or groundwater.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Printed Name: Andrew Parker Title: Sr. Env. Specialist

Signature: Andrew Parker Date: November 4, 2021

email: aparker@advanceenergypartners.com Telephone: 970-570-9535

OCD Only

Received by: Robert Hamlet Date: 3/9/2022

☐ Approved ☒ Approved with Attached Conditions of Approval ☐ Denied ☐ Deferral Approved

Signature: Robert Hamlet Date: 3/9/2022

11490 Westheimer Road, Suite 950, Houston, Texas 77077 • Phone 832-672-4700 • Fax 832-672-4609

November 4, 2021

NM Oil Conservation Division
Environmental Bureau
1220 South St. Francis Dr.
Santa Fe, NM 87505

RE: Revised Remediation Plan
Incident ID: NRM2019931908
Location: AO 6 State Com #1 Containment
AEP #: 01262017-0000-legacy

NMOCD:

Advance Energy Partners Hat Mesa LLC (AEP) submits this revised remediation plan based on the denial dated April 7, 2021. This revised remediation plan addresses the following issues:

- Depth-to-water determination
- Sampling grid larger than 200 sq. ft.

Depth to Water Determination

In September/October 2021, Advance Energy initiated a depth-to-water boring program to determine whether depth-to-water is present in the upper 100-feet of the surface soil profile. Nine (9) boreholes were advanced between 103 to 105-feet below ground surface, rested for at least 72-hours, and gauged for the presence of groundwater. The nearest boring is located 0.13-miles north-northeast of the former containment. The boring is identified as MISC-402 (CP-1881). No groundwater was detected within the upper 100-feet. Plate 2 (revised) is an updated depth-to-water map.

The driller log is located in Appendix A (revised).

Incident ID: NRM2019931908
AEP #: 01262017-0000-legacy

1. Remediation Plan

As discussed in the November 2020 Characterization& Containment Closure Workplan, the 7.5-minute USGS quadrangle topographic map shows the natural ground surface along the north-south middle transect through the center of the subject containment at 3,650 feet mean sea level (msl). Therefore, the base of the subject containment is (Plate 8):

- 4.2-feet below natural ground surface at the southwest corner
- 12.5-feet below natural ground surface at the southeast corner, and
- 6-feet below natural ground surface along the northern edge.

We respectfully ask NMOCD to approve a confirmation sampling grid not to exceed 900 sq. ft. As presented on Plate 9 (revised), the sampling grid area ranges from 828 to 900 sq. ft. with an average of 877 sq. ft. The sample grid is divided into four quadrants: NE, NW, SE, & SW. Within each quadrant, 9 sample grids (i.e. NW.01 through NW.09) represent the base samples. The containment berms are divided into seven sample grids per quadrant (i.e NW.10 through NW.16). Plate 9.2 shows the proposed confirmation soil sample locations relative to the sample grid.

The proposed sample depths at each sample location is defined as:

- 0 – 1 ft below existing grade
- 1 – 2 ft below existing grade, and
- 2 - 3 feet below existing grade if field screening levels suggest an exceedance of the below referenced closure criteria or if the samples in the preceding samples show an increase in field screening levels.

Per 19.15.29.12.C.(3) NMAC, Closure Criteria for confirmation samples 4-feet below the natural ground surface is presented below. As discussed, base samples will be collected at depths greater than 4-feet natural ground surface.

- Chloride < 20,000 mg/kg
- TPH (GRO + DRO + MRO) < 2,500 mg/kg
- TPH (GRO + DRO) < 1,000 mg/kg
- BTEX < 50 mg/kg
- Benzene < 10 mg/kg

We predict the containment berm sample results will meet the above Closure Criteria and per 19.15.29.13.D, where

- Chloride < 600 mg/kg
- TPH (GRO + DRO + MRO) < 100 mg/kg
- BTEX < 50 mg/kg
- Benzene < 10 mg/kg

If berm soil sample results meet 19.15.29.13.D, we will propose a closure plan to re-use the berm

Incident ID: NRM2019931908
AEP #: 01262017-0000-legacy

material for soil cover during remediation, restoration, and reclamation.

It is anticipated that confirmation sampling will meet the above closure criteria. Therefore, no remediation is expected; and volume of excavated material is anticipated to be zero. After confirmation sampling demonstrates that the above closure criteria are meet, the surface will be restored and reclaimed per 19.15.29.13.A-D (NMAC) per an approved closure plan. If confirmation sample results exhibit concentrations exceeding the above closure criteria, we will submit a revised remediation plan.

Please contact me with any questions at 970-570-9535.

Sincerely,
Advance Energy Partners Hat Mesa, LLC

Andrew Parker
Env. Scientist

Copy: Randy Black; Advance Energy Partners Hat Mesa, LLC
Ryan Mann; New Mexico State Land Office

State of New Mexico
Oil Conservation Division

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Remediation Plan

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☐ Extents of contamination must be fully delineated.

☐ Contamination does not cause an imminent risk to human health, the environment, or groundwater.

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Printed Name: Andrew Parker Title: Sr. Env. Specialist

Signature: Andrew Parker Date: November 4, 2021

email: aparker@advanceenergypartners.com Telephone: 970-570-9535

OCD Only

Received by: _____ Date: _____

☐ Approved ☐ Approved with Attached Conditions of Approval ☐ Denied ☐ Deferral Approved

Signature: _____ Date: _____

Andrew Parker

From: Debbie Moughon
Sent: Thursday, April 22, 2021 6:56 AM
To: Andrew Parker
Subject: FW: The Oil Conservation Division (OCD) has rejected the application, Application ID: 11227

Andrew
I don't think I sent this to you, I had some completions that were returned and I thought this was one of them. Sorry about that.

Have a great day!

Debbie Moughon
Cell: 713-447-0744

From: OCDOnline@state.nm.us <OCDOnline@state.nm.us>
Sent: Wednesday, April 7, 2021 2:38 PM
To: Debbie Moughon <dmoughon@advanceenergypartners.com>
Subject: The Oil Conservation Division (OCD) has rejected the application, Application ID: 11227

CAUTION: This email originated from outside your organization. Exercise caution when opening attachments or clicking links, especially from unknown senders.

To whom it may concern (c/o Debbie Moughon for ADVANCE ENERGY PARTNERS HAT MESA, LLC),

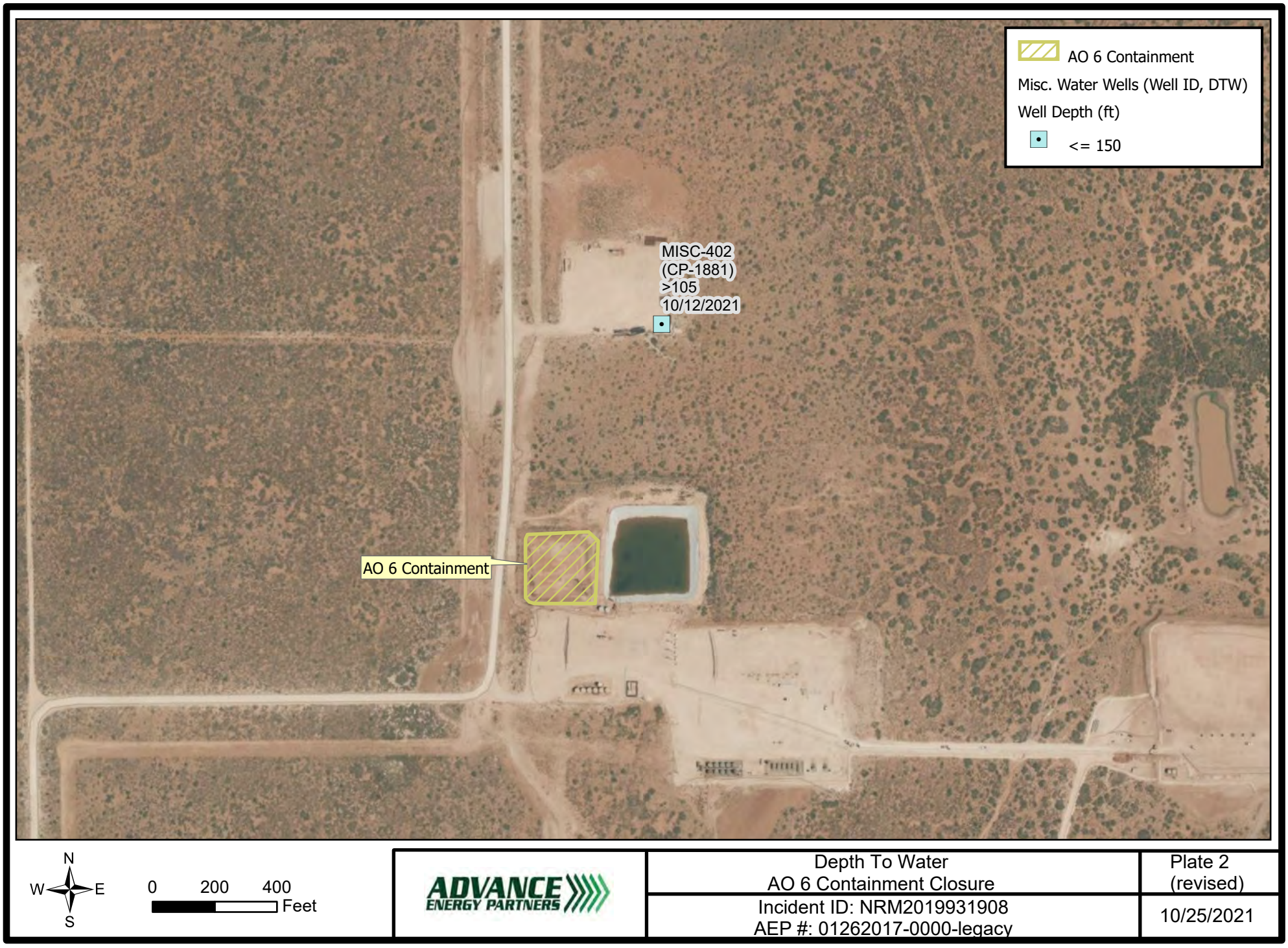
The OCD has rejected the submitted *Application for administrative approval of a release notification and corrective action* (C-141), for incident ID (n#) nRM2019931908,
for the following reasons:

- **When nearby wells are used to determine depth to groundwater, the wells should be no further than ½ mile away from the site, and data should be no more than 25 years old, and well construction information should be provided. If evidence of depth to ground water within a ½ mile radius of the site cannot be provided, impacted soils will need to meet Table 1 Closure Criteria for ground water at a depth of 50 feet or less. Please collect confirmation samples, representing no more than 200 ft2.**

The rejected C-141 can be found in the OCD Online: Permitting - Action Status, under the Application ID: 11227.
Please review and make the required correction(s) prior to resubmitting.
If you have any questions why this application was rejected or believe it was rejected in error, please contact me prior to submitting an additional C-141.

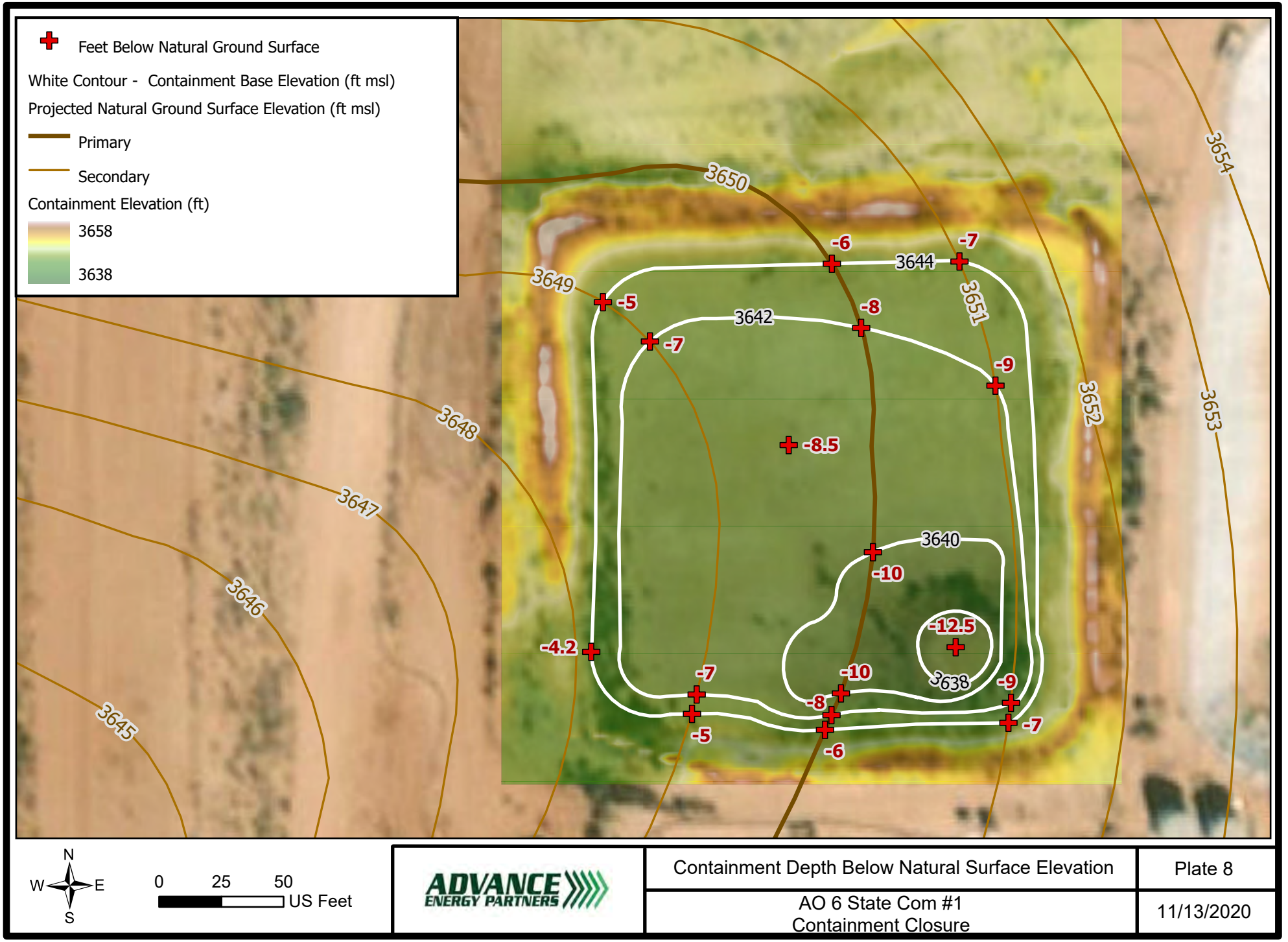
Thank you,
Robert Hamlet
575-748-1283
Robert.Hamlet@state.nm.us

Plates



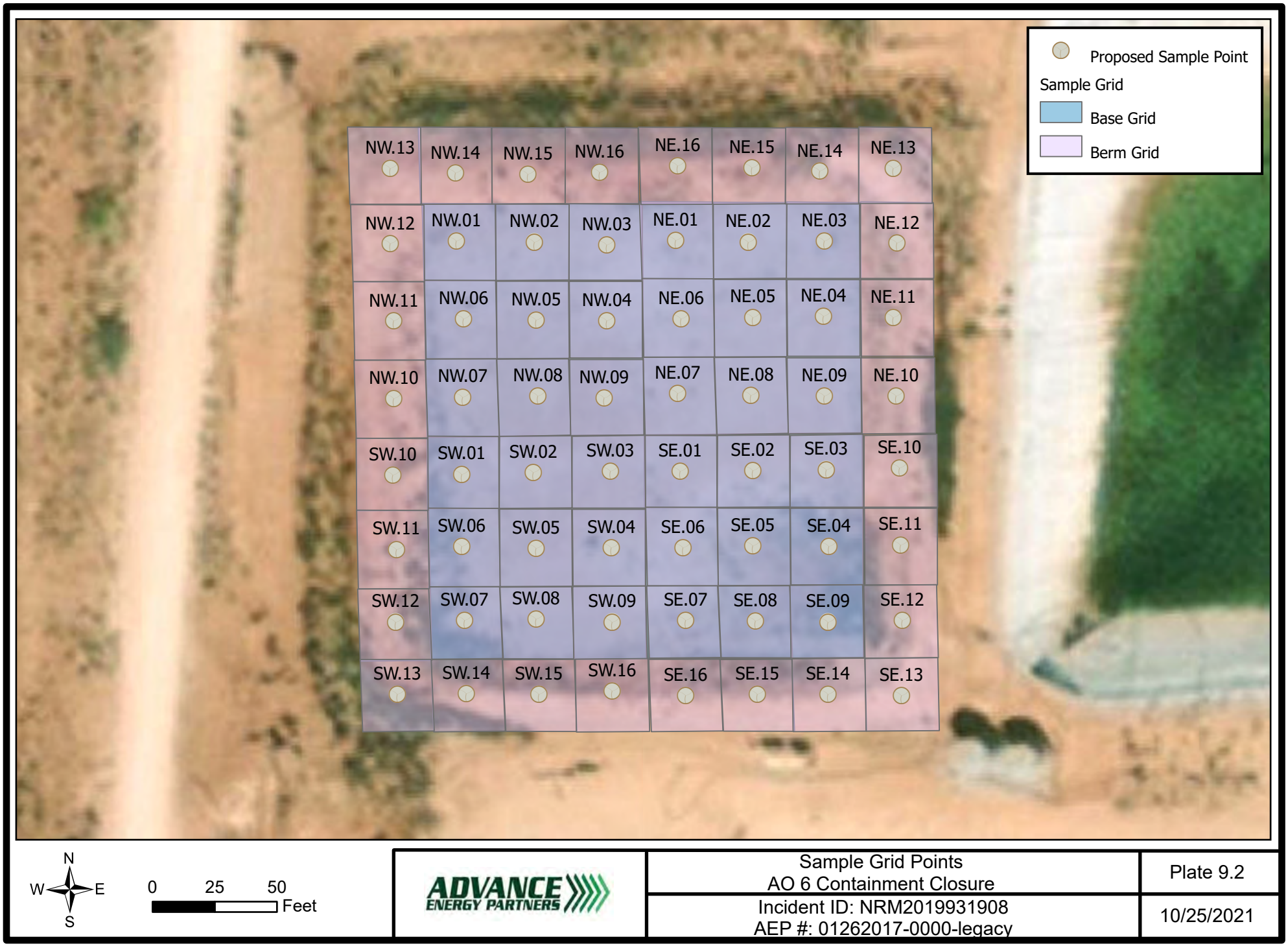
ADVANCE ENERGY PARTNERS

Depth To Water AO 6 Containment Closure	Plate 2 (revised)
Incident ID: NRM2019931908 AEP #: 01262017-0000-legacy	10/25/2021


Feet Below Natural Ground Surface
White Contour - Containment Base Elevation (ft msl)
Projected Natural Ground Surface Elevation (ft msl)
Primary
Secondary
Containment Elevation (ft)
3658
3638
3650
3649
3648
3647
3646
3645
3654
3653
3652
3651
3644
3642
3640
3638
-6
-7
-5
-8
-7
-9
-8.5
-10
-12.5
-4.2
-7
-10
-8
-9
-5
-6
-7
N
W
E
S
0
25
50
US Feet
ADVANCE ENERGY PARTNERS
Containment Depth Below Natural Surface Elevation
Plate 8
AO 6 State Com #1
Containment Closure
11/13/2020

ADVANCE ENERGY PARTNERS

Sample Grid Square Footages AO 6 Containment Closure	Plate 9 (revised)
Incident ID: NRM2019931908 AEP #: 01262017-0000-legacy	10/25/2021



ADVANCE ENERGY PARTNERS

Sample Grid Points AO 6 Containment Closure	Plate 9.2
Incident ID: NRM2019931908 AEP #: 01262017-0000-legacy	10/25/2021

Appendix A

Water Well Logs

Atkins
ENGINEERING ASSOCIATES INC.

2904 W 2nd St.
Roswell, NM 88201
voice: 575.624.2420
fax: 575.624.2421
www.atkinseng.com

10/29/2021

DII-NMOSE
1900 W 2nd Street
Roswell, NM 88201

Hand Delivered to the DII Office of the State Engineer

Re: Well Record CP-1881 Pod1

To whom it may concern:

Attached please find a well log & record and a plugging record, in duplicate, for a one (1) soil borings, CP-1881 Pod1.

If you have any questions, please contact me at 575.499.9244 or lucas@atkinseng.com.

Sincerely,

Lucas Middleton

Enclosures: as noted above

OSE DII NOV 1 2021 PM12:23

WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

1. GENERAL AND WELL LOCATION

OSE POD NO. (WELL NO.)	WELL TAG ID NO.	OSE FILE NO(S).
POD1 (TW-1)	n/a	CP-1881

WELL OWNER NAME(S)	PHONE (OPTIONAL)
Advanced Energy Partners	832.672.4700

WELL OWNER MAILING ADDRESS	CITY	STATE	ZIP
11490 Westheimer Rd. Stuit 950	Houston	TX	77077

WELL LOCATION (FROM GPS)		DEGREES	MINUTES	SECONDS	
	LATITUDE	32	25	22	N
	LONGITUDE	103	36	12	W

* ACCURACY REQUIRED: ONE TENTH OF A SECOND
* DATUM REQUIRED: WGS 84

DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS – PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE

NE SE NE Sec. 06 T22S R33E

2. DRILLING & CASING INFORMATION

LICENSE NO.	NAME OF LICENSED DRILLER	NAME OF WELL DRILLING COMPANY
1249	Jackie D. Atkins	Atkins Engineering Associates, Inc.

DRILLING STARTED	DRILLING ENDED	DEPTH OF COMPLETED WELL (FT)	BORE HOLE DEPTH (FT)	DEPTH WATER FIRST ENCOUNTERED (FT)
10/12/2021	10/12/2021	temporary well material	105	n/a

COMPLETED WELL IS: ☐ ARTESIAN ☑ DRY HOLE ☐ SHALLOW (UNCONFINED)

STATIC WATER LEVEL IN COMPLETED WELL (FT): n/a

DRILLING FLUID: ☐ AIR ☐ MUD ADDITIVES – SPECIFY:

DRILLING METHOD: ☐ ROTARY ☐ HAMMER ☐ CABLE TOOL ☑ OTHER – SPECIFY: Hollow Stem Auger

DEPTH (feet bgl) FROM	DEPTH (feet bgl) TO	BORE HOLE DIAM (inches)	CASING MATERIAL AND/OR GRADE (include each casing string, and note sections of screen)	CASING CONNECTION TYPE (add coupling diameter)	CASING INSIDE DIAM. (inches)	CASING WALL THICKNESS (inches)	SLOT SIZE (inches)
0	105	±6.5	Boring- HSA	--	--	--	--

3. ANNULAR MATERIAL

DEPTH (feet bgl) FROM	DEPTH (feet bgl) TO	BORE HOLE DIAM. (inches)	LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE-RANGE BY INTERVAL	AMOUNT (cubic feet)	METHOD OF PLACEMENT

OSE DIT NOV 1 2021 RECEIVED

FOR OSE INTERNAL USE

WR-20 WELL RECORD & LOG (Version 06/30/17)

FILE NO.	POD NO.	TRN NO.	
LOCATION		WELL TAG ID NO.	PAGE 1 OF 2

4. HYDROGEOLOGIC LOG OF WELL

DEPTH (feet bgl) FROM	DEPTH (feet bgl) TO	THICKNESS (feet)	COLOR AND TYPE OF MATERIAL ENCOUNTERED - INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES (attach supplemental sheets to fully describe all units)	WATER BEARING? (YES / NO)	ESTIMATED YIELD FOR WATER-BEARING ZONES (gpm)
0	14	14	Sand, fine-grained, poorly graded with Caliche, Brown	Y ✓ N	
14	19	5	Caliche, consolidated with fin-grained sand, White/Tan	Y ✓ N	
19	24	5	Sand, fine-grained, poorly graded with Caliche, Reddish Brown	Y ✓ N	
24	44	20	Sand, fine-grained, poorly graded with clay, Reddish Brown	Y ✓ N	
44	64	20	Sand, fine-grained, poorly graded with clay, Brown Tan	Y ✓ N	
64	105	41	Sand, fine-grained, poorly graded with clay, Brown	Y ✓ N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	

METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA:

☐ PUMP ☐ AIR LIFT ☐ BAILER ☐ OTHER – SPECIFY:

TOTAL ESTIMATED WELL YIELD (gpm): 0.00

5. TEST; RIG SUPERVISION

WELL TEST: TEST RESULTS - ATTACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLUDING DISCHARGE METHOD, START TIME, END TIME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER THE TESTING PERIOD.

MISCELLANEOUS INFORMATION: Temporary well materials removed and the soil boring backfilled using drill cuttings from total depth to ten feet below ground surface, then hydrated bentonite chips from ten feet below ground surface to surface.

PRINT NAME(S) OF DRILL RIG SUPERVISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CONSTRUCTION OTHER THAN LICENSEE:

Shane Eldridge, Carmelo Trevino, Cameron Pruitt

6. SIGNATURE

THE UNDERSIGNED HEREBY CERTIFIES THAT, TO THE BEST OF HIS OR HER KNOWLEDGE AND BELIEF, THE FOREGOING IS A TRUE AND CORRECT RECORD OF THE ABOVE DESCRIBED HOLE AND THAT HE OR SHE WILL FILE THIS WELL RECORD WITH THE STATE ENGINEER AND THE PERMIT HOLDER WITHIN 30 DAYS AFTER COMPLETION OF WELL DRILLING:

Jack Atkins — Jackie D. Atkins — 10/27/2021

SIGNATURE OF DRILLER / PRINT SIGNEE NAME — DATE

FOR OSE INTERNAL USE — WR-20 WELL RECORD & LOG (Version 06/30/2017)

FILE NO.	POD NO.	TRN NO.	
LOCATION		WELL TAG ID NO.	PAGE 2 OF 2

CP-1881_OSE_Well Record and Log-forsign

Final Audit Report 2021-10-29

Created:	2021-10-29
By:	Lucas Middleton (lucas@atkinseng.com)
Status:	Signed
Transaction ID:	CBJCHBCAABAAQ3vtH-svpKXba6sweCTSv6bY9FHI1cHt

"CP-1881_OSE_Well Record and Log-forsign" History

Document created by Lucas Middleton (lucas@atkinseng.com)
2021-10-29 - 3:53:42 PM GMT- IP address: 69.21.248.123

Document emailed to Jack Atkins (jack@atkinseng.com) for signature
2021-10-29 - 3:54:01 PM GMT

Email viewed by Jack Atkins (jack@atkinseng.com)
2021-10-29 - 4:18:46 PM GMT- IP address: 64.90.153.232

Document e-signed by Jack Atkins (jack@atkinseng.com)
Signature Date: 2021-10-29 - 4:19:17 PM GMT - Time Source: server- IP address: 64.90.153.232

Agreement completed.
2021-10-29 - 4:19:17 PM GMT

OSE DIT NOV 1 2021 PM2:44

Adobe Sign

PLUGGING RECORD

NOTE: A Well Plugging Plan of Operations shall be approved by the State Engineer prior to plugging - 19.27.4 NMAC

I. GENERAL / WELL OWNERSHIP:

State Engineer Well Number: CP-1881-POD1

Well owner: Advanced Energy Partners Phone No.: 832.672.4700

Mailing address: 11490 Westheimer Rd. Stuit 950

City: Houston State: Texas Zip code: 77077

II. WELL PLUGGING INFORMATION:

1) Name of well drilling company that plugged well: Jackie D. Atkins (Atkins Engineering Associates Inc.)

2) New Mexico Well Driller License No.: 1249 Expiration Date: 04/30/23

3) Well plugging activities were supervised by the following well driller(s)/rig supervisor(s): Lupe Leyba

4) Date well plugging began: 10/14/2021 Date well plugging concluded: 10/14/2021

5) GPS Well Location: Latitude: 32 deg, 25 min, 22 sec
Longitude: 103 deg, 36 min, 12 sec, WGS 84

6) Depth of well confirmed at initiation of plugging as: 105 ft below ground level (bgl), by the following manner: weighted tape

7) Static water level measured at initiation of plugging: n/a ft bgl

8) Date well plugging plan of operations was approved by the State Engineer: 07/08/2021

9) Were all plugging activities consistent with an approved plugging plan? Yes If not, please describe differences between the approved plugging plan and the well as it was plugged (attach additional pages as needed):

OSE DIT NOV 1 2021 PM2:44

Version: September 8, 2009
Page 1 of 2

10) Log of Plugging Activities - Label vertical scale with depths, and indicate separate plugging intervals with horizontal lines as necessary to illustrate material or methodology changes. Attach additional pages if necessary.

For each interval plugged, describe within the following columns:

Depth (ft bgl)	Plugging Material Used (include any additives used)	Volume of Material Placed (gallons)	Theoretical Volume of Borehole/ Casing (gallons)	Placement Method (tremie pipe, other)	Comments ("casing perforated first", "open annular space also plugged", etc.)
	0-10' Hydrated Bentonite	15.6 gallons	15 gallons	Augers	
	10'-110' Drill Cuttings	Approx. 151 gallons	151 gallons	Boring	

MULTIPLY		BY		AND OBTAIN
cubic feet	x	7.4805	=	gallons
cubic yards	x	201.97	=	gallons

III. SIGNATURE:

RECEIVED OCD NOV 1 2021 PM4:44

I, Jackie D. Atkins, say that I am familiar with the rules of the Office of the State Engineer pertaining to the plugging of wells and that each and all of the statements in this Plugging Record and attachments are true to the best of my knowledge and belief.

Jack Atkins — Signature of Well Driller

10/27/2021 — Date

Version: September 8, 2009
Page 2 of 2

DATE__WD-11 Plugging Record-forsign

Final Audit Report 2021-10-29

Created:	2021-10-29
By:	Lucas Middleton (lucas@atkinseng.com)
Status:	Signed
Transaction ID:	CBJCHBCAABAAtR6dClvgQcGMZKORwRcBWHfk6EYZjwn4

"DATE__WD-11 Plugging Record-forsign" History

Document created by Lucas Middleton (lucas@atkinseng.com)
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2021-10-29 - 3:54:13 PM GMT

Email viewed by Jack Atkins (jack@atkinseng.com)
2021-10-29 - 4:18:25 PM GMT- IP address: 64.90.153.232

Document e-signed by Jack Atkins (jack@atkinseng.com)
Signature Date: 2021-10-29 - 4:18:39 PM GMT - Time Source: server- IP address: 64.90.153.232

Agreement completed.
2021-10-29 - 4:18:39 PM GMT

OSE DIT NOV 1 2021 PM4:44

Adobe Sign

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720
District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

CONDITIONS

Action 60289

CONDITIONS

Operator: ADVANCE ENERGY PARTNERS HAT MESA, LLC 11490 Westheimer Rd., Ste 950 Houston, TX 77077	OGRID: 372417
	Action Number: 60289
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
rhamlet	The Remediation Plan is Conditionally Approved. Reclamation of areas no longer in use, must contain a minimum of 4 feet non-waste containing uncontaminated, earthen material with chloride concentrations less than 600 mg/kg and less than 100 mg/kg for TPH. Four feet below the ground surface, soil contamination limits revert back to Table 1 “Closure Criteria for Soils Impacted by a Release” included in the spill rule. Sidewall samples should be delineated/excavated to 600 mg/kg for chlorides and 100 mg/kg for TPH to define the edge of the release. The variance for floor confirmation samples not to exceed 900 ft2 is denied. At this time, the largest variance the OCD can grant is 500 ft2 for confirmation samples. Sidewall samples should represent no more than 200 ft2. The work will need to occur in 90 days after the work plan has been approved.	3/11/2022