



Arizona Oil and Gas Conservation Commission

Samantha Roberts, R.G.
Program Administrator Arizona Oil and Gas Conservation Commission
1110 W. Washington Street, Phoenix, AZ 85007
Ph: 602-771-4501 | azogcc.az.gov

Commissioners:
Frank Thorwald, Chair
J. Dale Nations, Ph.D., Vice Chair
William C. Feyerabend
F. Michael Conway, Ph.D.
James (Jim) Ballard
Robyn Sahid, Land Commissioner
Ex Officio (non-voting member)

NOTICE OF COMBINED PUBLIC MEETING AND POSSIBLE EXECUTIVE SESSION ARIZONA OIL AND GAS CONSERVATION COMMISSION

Pursuant to A.R.S. § 38-431.02, notice is hereby given to the members of the Arizona Oil and Gas Conservation Commission (AZOGCC) and to the general public that the AZOGCC will hold an open public meeting:

Friday, March 7, 2025
10:00 A.M. MST Phoenix, AZ
via Zoom using the link below:

<https://us02web.zoom.us/j/89194635122?pwd=11rcbPSCsRDoWEXXEtKldAqgbCuwgk.1>

Dial in:

+1 669 444 9171 US

Meeting ID:

891 9463 5122

Passcode/Participation ID:

395487

Please join a few minutes early to avoid technical difficulties and keep all microphones muted except when speaking. This virtual meeting will be recorded. If you experience difficulties logging into the meeting please contact Wendy Flood, at flood.wendy@azdeq.gov or (602) 717-0029 for technical assistance.

Executive Session: Pursuant to A.R.S. § 38-431.03(A)(3), the AZOGCC may vote to go into executive session, which will not be open to the public for the purposes of obtaining legal advice on any item on the Agenda.

CALL TO ORDER

1. Establish a quorum and conflicts of interests

AGENDA ITEMS FOR DISCUSSION, CONSIDERATION, AND POSSIBLE ACTION:

2. Administrator Updates – Samantha Roberts
 - a. Rules and Legislation Timeframe Updates
 - b. Oil and Gas Permitting Budget Update
 - c. New Managing Partner Notification for Ranger Development LLC
 - d. Inspection Overview – Adamana Storage
3. Orphan Wells Program Update
 - a. Outreach Update



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Ex Officio (non-voting member)

b. New Plugging Applications

1. 02-015-05056 - approval update
2. 02-001-05266
3. 02-017-05027
4. 02-005-05028
5. 02-017-05029
6. 02-017-05033
7. 02-003-20009
8. 02-003-05020
9. 02-003-05000
10. 02-003-05043

c. Plugged Wells

1. 02-017-05153
2. 02-017-05021
3. 02-017-60009

4. AZOGCC Chairman Frank Thorwald Report

- a. Discussion and update on State or Federal Rulemaking and Legislation**
- b. Discussion regarding preferred communication methods**
- c. Representation at the IOGCC providing data and important information**

5. Call to the Public:

Members of the public may address the AZOGCC during this Call to the Public. In the interest of maintaining an orderly meeting, comments shall not exceed three minutes per speaker. For any specific issues, the total comment period shall not exceed ten minutes per side. If a member of the public wishes to speak, they may unmute their telephone by pressing *6 or unmute their microphone.

Pursuant to A.R.S. § 38-431.01(H), the AZOGCC members shall not discuss or take legal action on matters raised during an open call to the public unless the matters are properly noticed for discussion and legal action. As a result of public comment, the AZOGCC members may respond to criticism, may direct staff to review a matter, or may ask that a matter be placed on a future agenda.



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Ex Officio (non-voting member)

6. AZOGCC Requests for Future Agenda Items

7. Announcements

8. Adjournment of the AZOGCC

For additional information about this meeting, contact Samantha Roberts, Oil and Gas Program Administrator, azogcc@azdeq.gov or (602) 771-4501. At least 24 hours prior to any meeting, a copy of the agenda will be available for public inspection at the Arizona Department of Environmental Quality (ADEQ), 1110 W. Washington Street, Phoenix, AZ 85007, or online at <http://azogcc.az.gov/notices>. A copy of material provided to AZOGCC (with exception to material relating to possible executive sessions) are available for public inspection upon request by contacting the ADEQ Records Center at (602) 771-4380 or (800) 234-5677.

ADEQ will take reasonable measures to provide access to department services to individuals with limited ability to speak, write or understand English and/or to those with disabilities. Requests for language translation, ASL interpretation, CART captioning services or disability accommodations must be made at least 48 hours in advance by contacting the Title VI Nondiscrimination Coordinator, Joaquin Marruffo Ruiz, at 520-628-6744 or Marruffo.Joaquin@azdeq.gov. For a TTY or other device, Telecommunications Relay Services are available by calling 711.

ADEQ tomará las medidas razonables para proveer acceso a los servicios del departamento a personas con capacidad limitada para hablar, escribir o entender inglés y/o para personas con discapacidades. Las solicitudes de servicios de traducción de idiomas, interpretación ASL (lengua de signos americano), subtítulo de CART, o adaptaciones por discapacidad deben realizarse con al menos 48 horas de anticipación comunicándose con el Coordinador de Anti-Discriminación del Título VI, Joaquin Marruffo Ruiz, al 520-628-6744 o Marruffo.Joaquin@azdeq.gov. Para un TTY u otro dispositivo, los servicios de retransmisión de telecomunicaciones están disponible llamando al 711.

Agenda Item 2.c
Ranger Development
Notification



AZ OGCC Administrator - AZDEQ <azogcc@azdeq.gov>

Ranger Development LLC - new representatives

1 message

Tony Hines <hinestony58@gmail.com>

Sun, Feb 16, 2025 at 12:17 PM

To: AOGC - Frank Thorwald <FrankThorwald@thorwaldgroup.com>, "azogcc@azdeq.gov" <azogcc@azdeq.gov>

Cc: Brian Peters <BrianPeters@iacx.com>, IACX - Mark Koehn <markkoehn@iacx.com>, Rex Canon <rexcanon@mac.com>, jcfjordan@jordands.com

Frank Thorwald - Chairman / Samantha Roberts - Administrator,

On December 16, 2024 IACX Energy LLC (50% Managing Partner in Ranger Development LLC in Apache County) had an ownership change and the new stock owner brought in new upper executive management team. As of that date, myself (Tony Hines, Sr VP Operations); Rex Canon, CEO, and Jeremy Jordan, Sr VP Commercial, were terminated as employees with IACX and any representation positions under Ranger, but we have continued under short term Consulting Agreements to help IACX with the transition for any ongoing projects with the new owners as they request.

With regard to Ranger Development LLC the positions we held were: Tony Hines - Project Manager; Rex Canon - Member - Ranger Management Committee; and Jeremy Jordan - Member - Ranger Management Committee. In January IACX was provided with Form 1 for them to resubmit the new Organization Report once things were finalized in the Ranger Management Committee. Not being employed by IACX any longer, none of the three of us could file a new Form 1 due to lack of specific powers needed to make the affidavit required to be signed in the form. They have been delayed in sending that while they have been bringing on board the rest of their team and preparing to move the Dallas office to their Denver Colorado location.

Besides the Pinta Dome, Mustang Dome, and Navajo Springs which are operations IACX does for Ranger, the other activity that IACX Energy LLC is currently providing in the sector in Arizona is a contract service for helium recovery in southern Apache County, at the St Johns Plant of Proton Green. This is mentioned only for any correspondence issues as needed for that industrial plant operation.

Per our correspondence and as mentioned above it has been brought to our attention that the AZOGCC might not have received the new Form 1 information as of this date designating the new representatives, and formally removing the three of us (Rex, Jeremy and Tony) from the list of representatives for IACX or Ranger. The following are the persons that should be currently contacted at IACX in the interim until a new Form 1 is filed. At this time the main address is still the same in Dallas, Texas, but as mentioned above, it is our understanding they will be moving the SG&A functions to Denver Colorado shortly and will provide a new Form 1 when that happens also, along with any change in representatives they might make different from the following:

Brian Peters - CEO (replacing Rex Canon as Member on the Ranger Development LLC Management Committee), email - brianpeters@iacx.com; Mark Koehn - COO (replacing Jeremy Jordan as Member on the Ranger Development LLC Management Committee, and also replacing myself, Tony Hines, as the Project Manager for the OGCC); email - markkoehn@iacx.com; cel - 281-910-2477. Also please note that Joel Doporto, Production Tech at IACX will be sending in the monthly production reports under that designated title for Ranger also going forward.

It's been a pleasure working with you and everyone at the Commission over the last 9 years and I wish you all the luck going forward as you continue to rebuild the industry in the state.

Regards,
Tony Hines

Agenda Item 3.b

New Plugging
Applications

API #	Land Owner	Permit #	STR	County	Latitude	Longitude
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HGC

02-003-20009	STATE	8-87	13S 30E 27 NW NW	Cochise	32.27739	-109.27732
02-003-05043	PRIVATE	00-30	23S 27E 34 NW NW	Cochise	31.3917	-109.59576
02-003-05000	PRIVATE	02-06	13S 31E 31 SW SE	Cochise	32.25264	-109.2159
02-003-05020	STATE	02-13	14S 30E 34 SE NW	Cochise	32.17502	-109.27277

Tetra Tech

02-001-05266	PRIVATE	03-65	16N 25E 5 NE SW	Apache	34.81632	-109.719298
02-017-05027	PRIVATE	09-09	16N 17E 20 NE NE	Navajo	34.77072	-110.556131
02-005-05028	PRIVATE	02-02	16N 14E 29 NE SW	Coconino	34.73957	-110.88557
02-017-05029	PRIVATE	00-20	16N 16E 1 SW SW	Navajo	34.8075	-110.610374
02-017-05033	STATE	09-23	17N 20E 16 SW SW	Navajo	34.865	-110.231999

Well Name	Depth
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Arzon Corporation 1 State	8974
Cochise Oil 1 Goldman	1000
Fitzwater 1 Thayer	4440
Ryan et al 1 State	990

Eastern Petroleum 1 New Mexico-Ar	683
Black Canyon Oil 1 Fee	476
G Allen 1 O'Haco	490
J A Eisele 1 McCauley	4260
Great Basin Oil 1 Fuller	4675

Agenda Item 3.b.2

API# 02-001-05266

APPLICATION TO PLUG AND ABANDON

FIELD Holbrook

OPERATOR Eastern Petroleum (now orphan) ADDRESS & PHONE _____

LEASE NUMBER (Lessor's name if fee) Eastern NM, AZ Land Fee WELL NO. 02-001-05266

LOCATION NE SW Sec. 5,16N-25E

TYPE OF WELL Dry TOTAL DEPTH 683'
(Oil, Gas, or Dry)

ALLOWABLE (If Assigned) _____

LAST PRODUCTION TEST OIL _____ (Bbls.) WATER _____ (Bbls.)

GAS _____ (MCF) DATE OF TEST _____

PRODUCING HORIZON _____ PRODUCING FROM _____ TO _____

1. COMPLETE CASING RECORD:

7" @ 22'
2-7/8" @ 683'

2. FULL DETAILS OF PROPOSED PLAN OF WORK:

Tag at 683' with coiled tubing or as deep as possible
Set plug from 683'-550' (Coconino), water zone needs abandoned properly
Plug 2: pump from surface-550'

- Post abandonment procedures will include:
- A marker as outlined in AAC R12-7-127 F
 - Restoration as outlined in AAC R12-7-127 G
 - 48 hour notification as outlined in AAC R12-7-127 H
 - Filing of a plugging record within 15 days as outlined in AAC R12-7-127 I

DATE COMMENCING OPERATIONS Feb 28, 2025

NAME OF PERSON DOING WORK Drake Energy Services ADDRESS 607 W Pinon St, Farmington, NM 87401



Signature
Petroleum Engineer

Title
4650 E Cotton Center Blvd, Suite 110, Phoenix, AZ 85040

Address
02/10/2025

Date

Mail one copy of completed form to:
Oil and Gas Program Administrator
Arizona Department of Environmental Quality
1110 W. Washington Street
Phoenix, AZ 85007
email **one** copy to: ogcc@azdeq.gov

Date Approved _____
STATE OF ARIZONA
OIL & GAS CONSERVATION COMMISSION
By _____

STATE OF ARIZONA
OIL & GAS CONSERVATION COMMISSION
Application to Plug and Abandon
File two copies: one by mail, one electronically
Form No. 9

Proposed Wellbore Diagram

Arizona Apache Co.
Eastern Petroleum #1 NMA
API: 02-001-05266
Apache County, Arizona

Plug 5
540 feet - Surface
540 foot plug
13 Sacks of Type III Cement

Plug 1
683 feet - 540 feet
143 foot plug
6 Sacks of Type III Cement

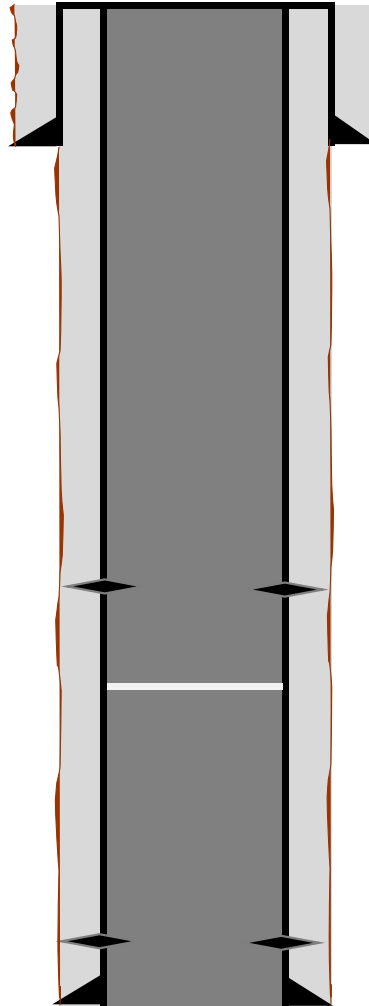
Perforations
620' to 640'
464' to 478'

Surface Casing
7" 40# 22' ft
OH: ≈8.75'

Formation
Coconino - 612'

Possible Plug at 582'

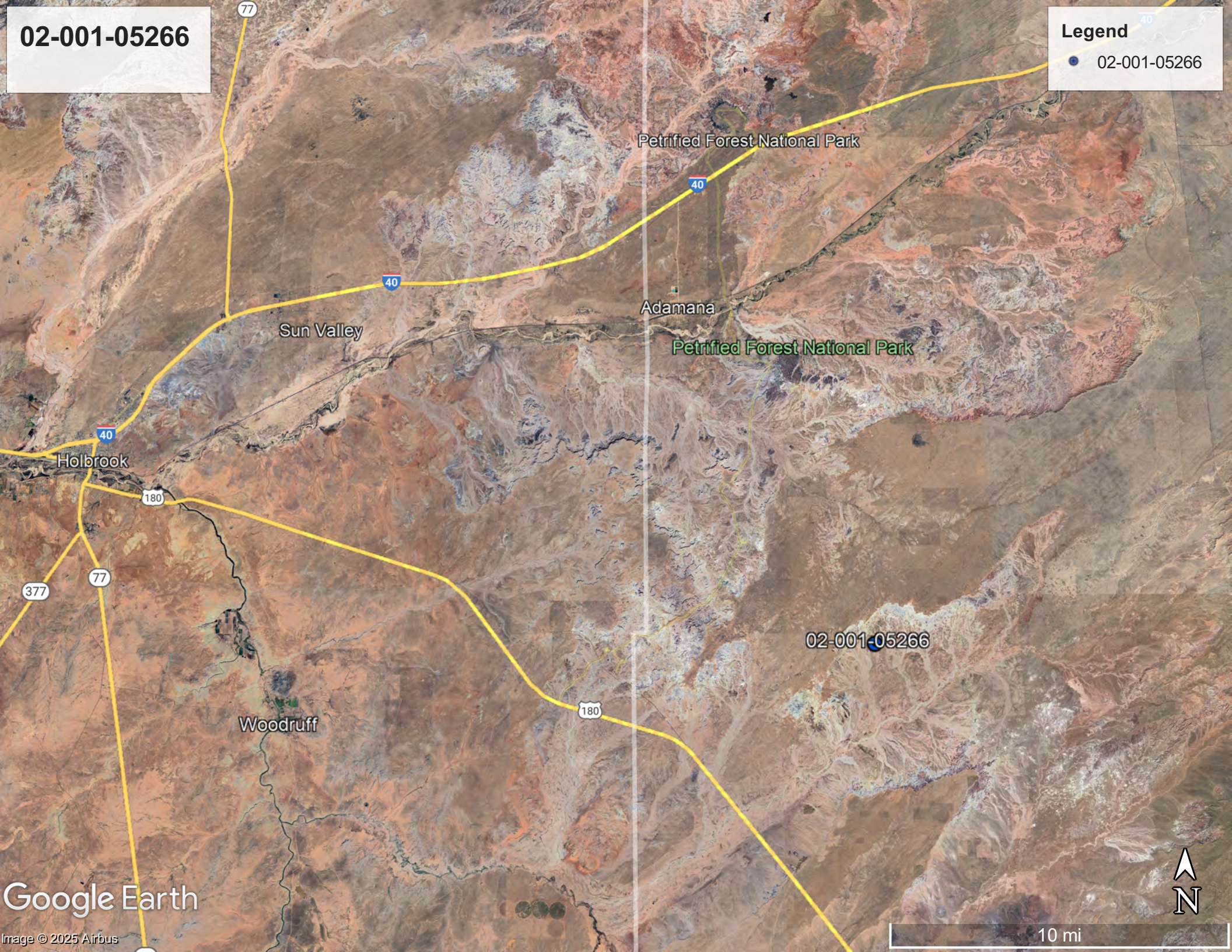
Production Casing
2.875" 683'



02-001-05266

Legend

- 02-001-05266



Petrified Forest National Park

Adamana

Petrified Forest National Park

Sun Valley

Holbrook

Woodruff

02-001-05266

Google Earth

Image © 2025 Airbus

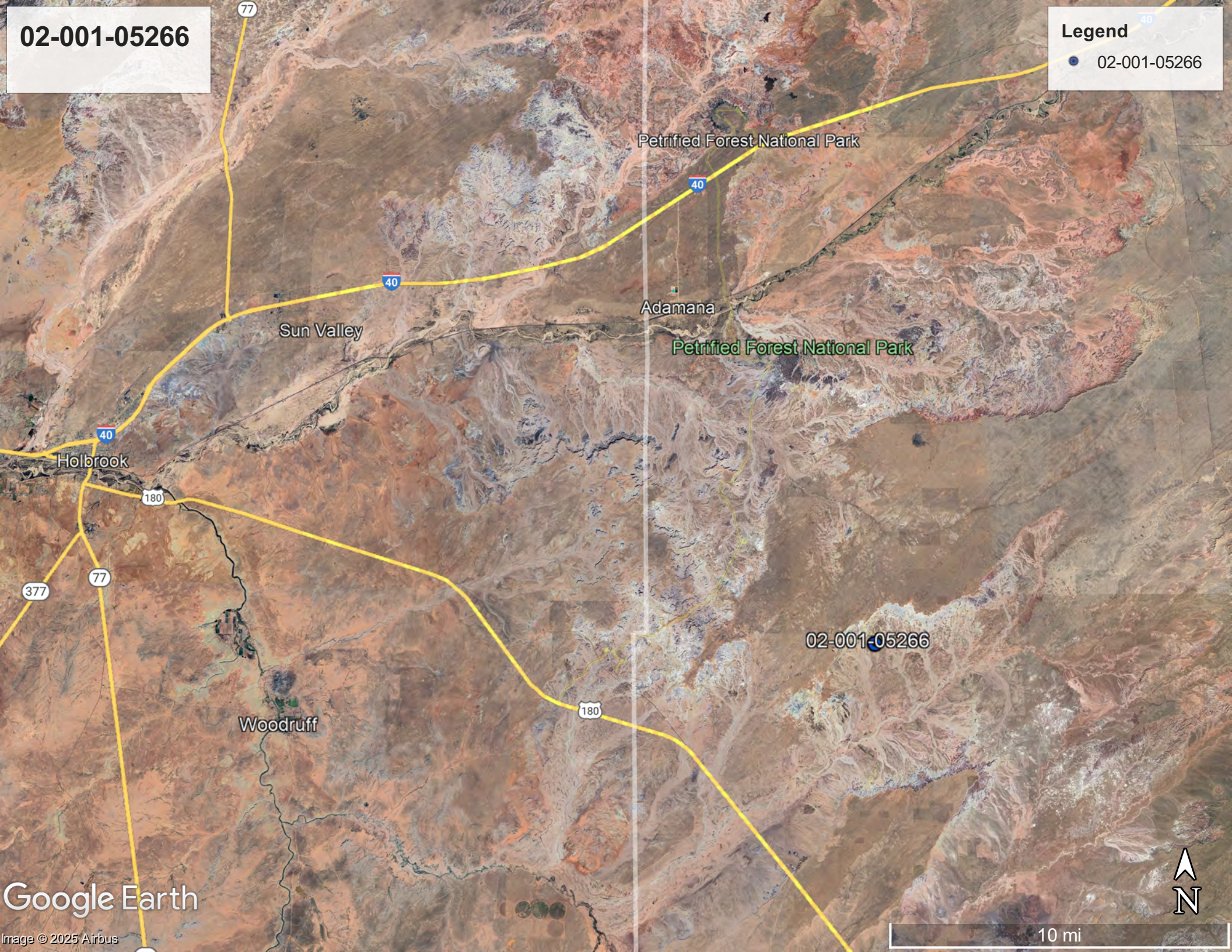
10 mi



02-001-05266

Legend

- 02-001-05266



Petrified Forest National Park

40

40

Sun Valley

Adamana

Petrified Forest National Park

Holbrook

40

180

377

77

Woodruff

180

02-001-05266

Google Earth

Image © 2025 Airbus



10 mi

Agenda Item 3.b.3
API# 02-017-05027

APPLICATION TO PLUG AND ABANDON

FIELD Holbrook

OPERATOR Black Canyon Oil Co. (now orphan) ADDRESS & PHONE _____

LEASE NUMBER (Lessor's name if fee) Eastern NM, AZ Land Fee WELL NO. 02-017-05027

LOCATION NE NE Sec. 20,16N-17E

TYPE OF WELL Dry TOTAL DEPTH 476'
(Oil, Gas, or Dry)

ALLOWABLE (If Assigned) _____

LAST PRODUCTION TEST OIL _____ (Bbls.) WATER _____ (Bbls.)

GAS _____ (MCF) DATE OF TEST _____

PRODUCING HORIZON _____ PRODUCING FROM _____ TO _____

1. COMPLETE CASING RECORD:

No record of casing

2. FULL DETAILS OF PROPOSED PLAN OF WORK:

Tag as deep as possible
Plug: pump from surface-476'

Post abandonment procedures will include:

- A marker as outlined in AAC R12-7-127 F
- Restoration as outlined in AAC R12-7-127 G
- 48 hour notification as outlined in AAC R12-7-127 H
- Filing of a plugging record within 15 days as outlined in AAC R12-7-127 I

DATE COMMENCING OPERATIONS Feb 28, 2025

NAME OF PERSON DOING WORK Drake Energy Services ADDRESS 607 W Pinon St, Farmington, NM 87401



Signature
Petroleum Engineer

Title
4650 E Cotton Center Blvd, Suite 110, Phoenix, AZ 85040

Address
02/10/2025

Date

Mail one copy of completed form to:

Oil and Gas Program Administrator
Arizona Department of Environmental Quality
1110 W. Washington Street
Phoenix, AZ 85007

email one copy to: ogcc@azdeq.gov

Date Approved _____

STATE OF ARIZONA
OIL & GAS CONSERVATION COMMISSION

By _____

STATE OF ARIZONA
OIL & GAS CONSERVATION COMMISSION

Application to Plug and Abandon

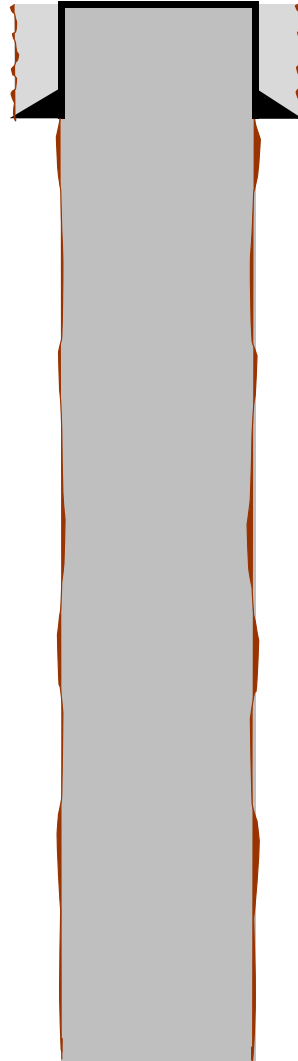
File two copies: one by mail, one electronically

Form No. 9

Proposed Wellbore Diagram

Black Canyon Oil Company
Black Canyon Oil Company #1
API: 02-017-05027
Navajo County, Arizona

Surface Casing
Unknown



Plug 1
476 Feet - Surface
476 Foot Plug
285 Sacks of Type III Cement

Formations
Coconino TD to Surface

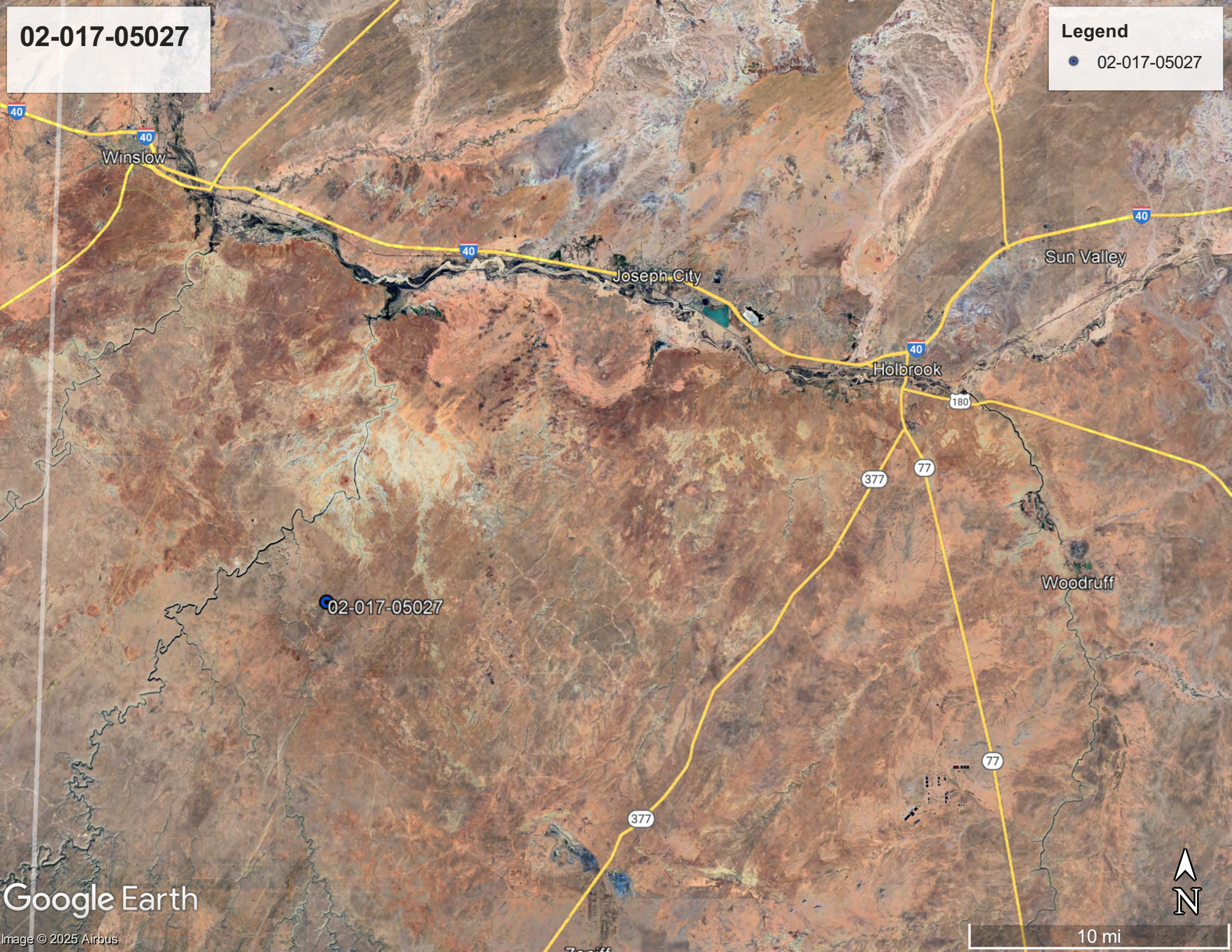
Perforations
N/A

Open Hole
Depth \approx 476
Unknown open hole size, assumed
8"

02-017-05027

Legend

- 02-017-05027



02-017-05027

Legend

● 02-017-05027

02-017-05027

Google Earth

Image © 2025 Airbus

1 mi



Agenda Item 3.b.4
API# 02-005-05028

APPLICATION TO PLUG AND ABANDON

FIELD Holbrook

OPERATOR Mrs. George Allen et al (now orphan) ADDRESS & PHONE _____

LEASE NUMBER (Lessor's name if fee) O'Haco Fee WELL NO. 02-005-05028

LOCATION NE SW Sec. 29,16N-14E

TYPE OF WELL Dry TOTAL DEPTH 500'
(Oil, Gas, or Dry)

ALLOWABLE (If Assigned) _____

LAST PRODUCTION TEST OIL _____ (Bbls.) WATER _____ (Bbls.)

GAS _____ (MCF) DATE OF TEST _____

PRODUCING HORIZON _____ PRODUCING FROM _____ TO _____

1. COMPLETE CASING RECORD:

10-3/4" @ unknown depth with cap welded on surface

2. FULL DETAILS OF PROPOSED PLAN OF WORK:

Tag at 500' or as deep as possible
Set plug from 500'-400' (Coconino), water zone needs abandoned properly
Plug 2: pump from surface-400'

Post abandonment procedures will include:
- A marker as outlined in AAC R12-7-127 F
- Restoration as outlined in AAC R12-7-127 G
- 48 hour notification as outlined in AAC R12-7-127 H
- Filing of a plugging record within 15 days as outlined in AAC R12-7-127 I

DATE COMMENCING OPERATIONS Feb 28, 2025

NAME OF PERSON DOING WORK Drake Energy Services ADDRESS 607 W Pinon St, Farmington, NM 87401



Signature
Petroleum Engineer

Title
4650 E Cotton Center Blvd, Suite 110, Phoenix, AZ 85040

Address
02/10/2025

Date

Mail one copy of completed form to:
Oil and Gas Program Administrator
Arizona Department of Environmental Quality
1110 W. Washington Street
Phoenix, AZ 85007
email **one** copy to: ogcc@azdeq.gov

Date Approved _____
STATE OF ARIZONA
OIL & GAS CONSERVATION COMMISSION
By _____

STATE OF ARIZONA
OIL & GAS CONSERVATION COMMISSION
Application to Plug and Abandon
File two copies: one by mail, one electronically
Form No. 9

Permit No. AZOGCC:02-02

Proposed Wellbore Diagram

Mrs. George Allen
Allen #1 O'Haco
API: 02-005-05028
Coconino County, Arizona

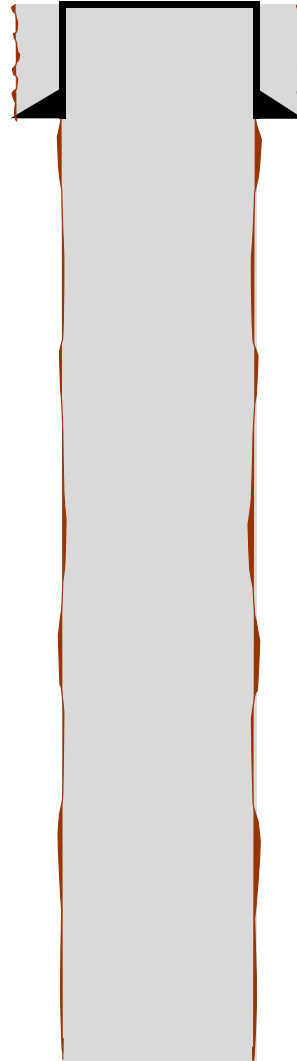
Surface Casing
Unknown

Formations
N/A

Plug 1
500 Feet - Surface
500 Foot Plug
300 Sacks of Type III Cement

Perforations
N/A

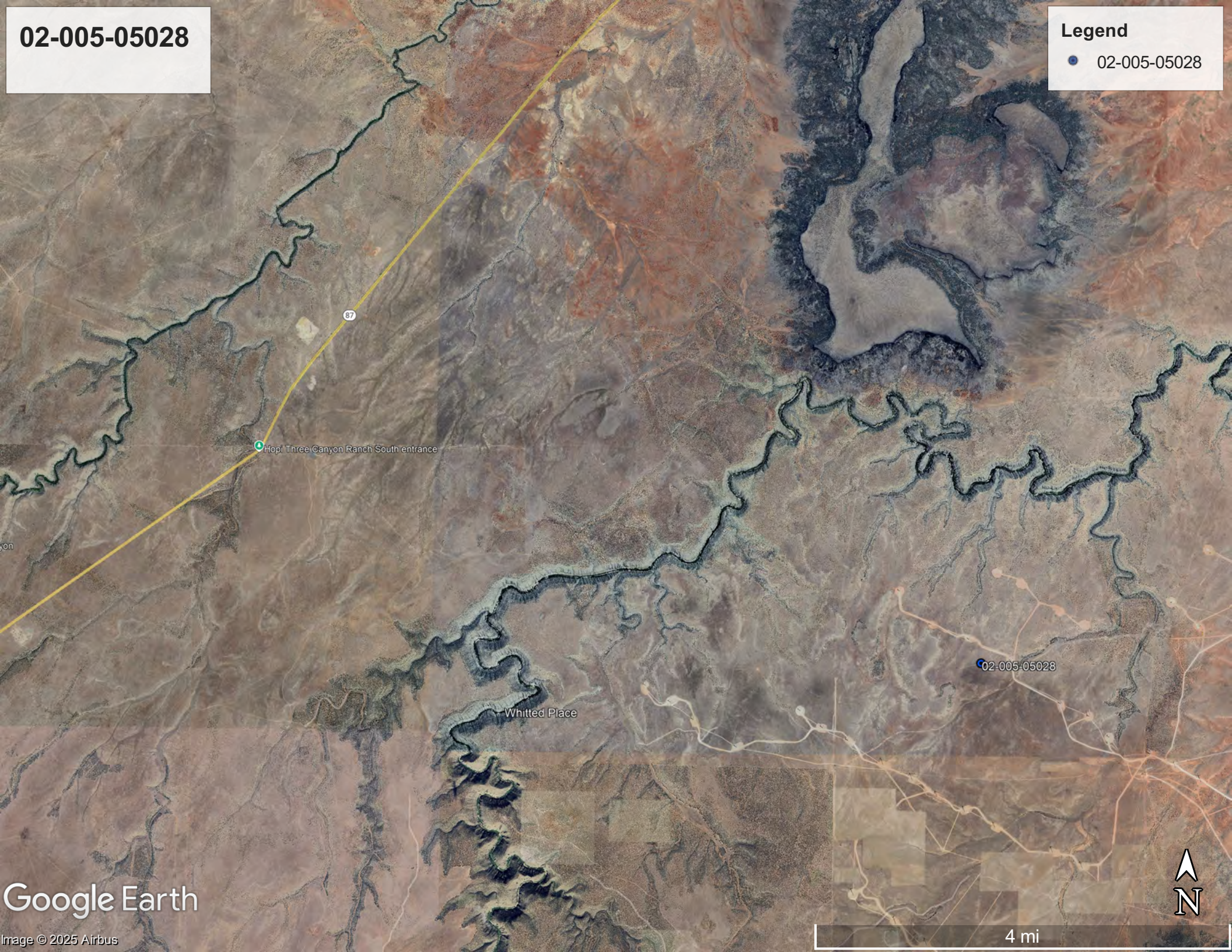
Open Hole
Depth \approx 500
Unknown open hole size, assumed
8"



02-005-05028

Legend

● 02-005-05028



Hopi Three Canyon Ranch South entrance

87

02-005-05028

Whitted Place

Google Earth

Image © 2025 Airbus

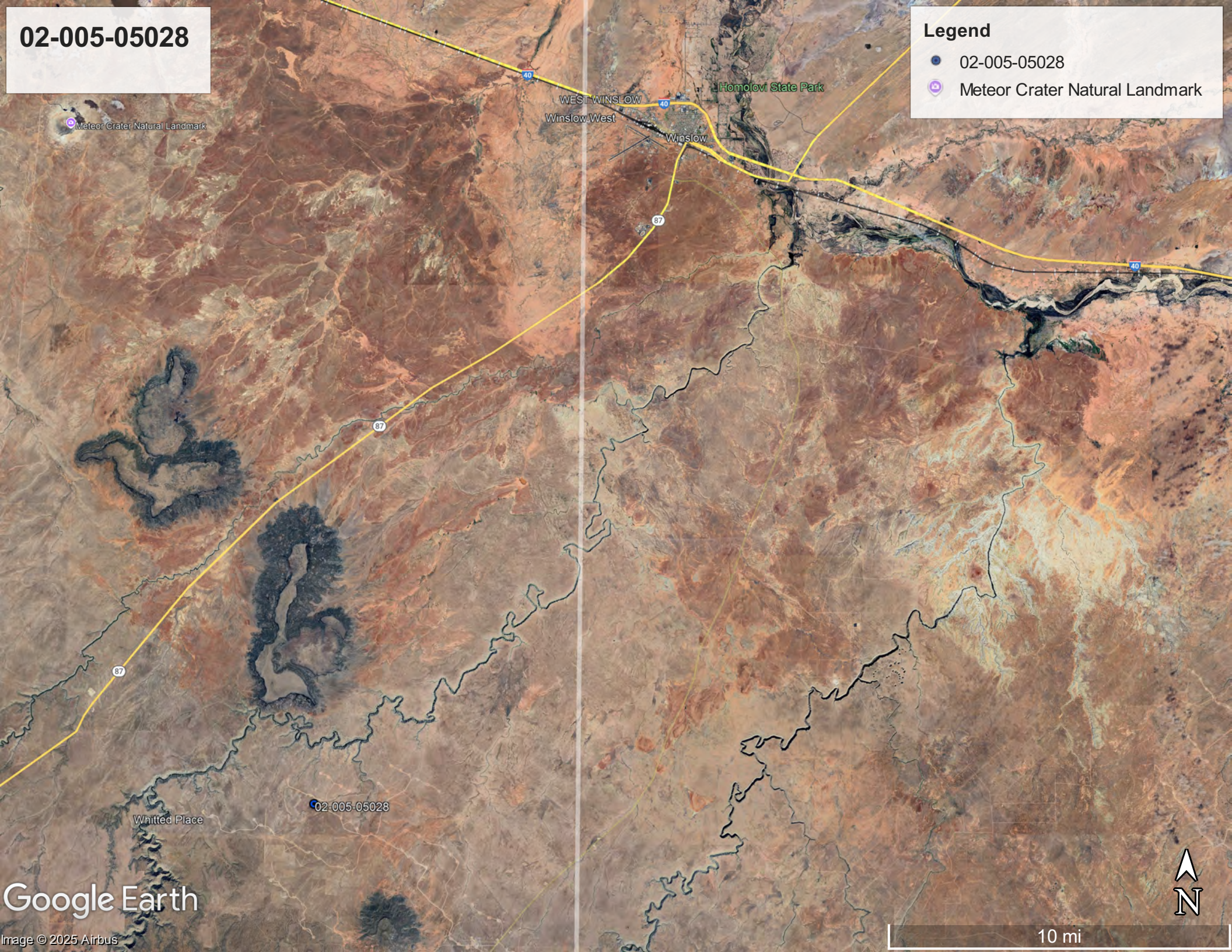
4 mi



02-005-05028

Legend

- 02-005-05028
- 📍 Meteor Crater Natural Landmark



Google Earth

Image © 2025 Airbus



10 mi

Agenda Item 3.b.5
API# 02-017-05029

APPLICATION TO PLUG AND ABANDON

FIELD Holbrook

OPERATOR Joseph McCauley (now orphan) ADDRESS & PHONE _____

LEASE NUMBER (Lessor's name if fee) McCauley Fee WELL NO. 02-017-05029

LOCATION SW SW Sec. 1,16N-16E

TYPE OF WELL Dry TOTAL DEPTH 4260'
(Oil, Gas, or Dry)

ALLOWABLE (If Assigned) _____

LAST PRODUCTION TEST OIL _____ (Bbls.) WATER _____ (Bbls.)

GAS _____ (MCF) DATE OF TEST _____

PRODUCING HORIZON Granite PRODUCING FROM 3,705' TO 3,870'

1. COMPLETE CASING RECORD:

- 10-3/4" @ 610'
- 7" @ 3,660'
- 5-1/2" @ 4,050'

2. FULL DETAILS OF PROPOSED PLAN OF WORK:

- Tag 4,260'
- Plug 1: pump from 3,650'-3,920' (productive interval)
- Run cement bond log.
- Plug 2: 3,610'-3,710'
- Plug 3: 1,500'-1,650' (fluid zone identified when drilling well)
- Plug 4: 500'-660'
- Plug 5: Surface - 250'

- Post abandonment procedures will include:
- A marker as outlined in AAC R12-7-127 F
 - Restoration as outlined in AAC R12-7-127 G
 - 48 hour notification as outlined in AAC R12-7-127 H
 - Filing of a plugging record within 15 days as outlined in AAC R12-7-127 I

DATE COMMENCING OPERATIONS Mar 10, 2025

NAME OF PERSON DOING WORK Drake Energy Services ADDRESS 607 W Pinon St, Farmington, NM 87401

Michelle Spruill

Mail one copy of completed form to:
Oil and Gas Program Administrator
Arizona Department of Environmental Quality
1110 W. Washington Street
Phoenix, AZ 85007
email one copy to: ogcc@azdeq.gov

Signature
Petroleum Engineer
Title
4650 E Cotton Center Blvd, Suite 110, Phoenix, AZ 85040
Address
02/12/2025
Date

Date Approved _____
STATE OF ARIZONA
OIL & GAS CONSERVATION COMMISSION
By _____

STATE OF ARIZONA
OIL & GAS CONSERVATION COMMISSION
Application to Plug and Abandon
File two copies: one by mail, one electronically
Form No. 9

Proposed Wellbore Diagram

Joseph A. Eisele
Joseph A. Eisele McCauley #1
API: 02-017-05029
Navajo County, AZ

Surface Casing

10.75" @ 610 ft
OH: 15"
Cemented with 300 sx

Estimated Formations

Kaibab - Surface
Salt - 1550'
Ft. Apache - 1720'
Penn - 3280'
Granite - 3700'

Intermediate Casing

7" @ 3660 feet
OH: 9.75"
No Cement

Production Casing

5.5" 15# @ 4050 feet
OH: 7.875"
Cemented with 75 sx

Plug 5

250 feet - surface
250 foot plug
95 Sacks of Type III Cement

Plug 4

660 feet - 500 feet
160 foot plug
16 Sacks of Type III Cement

Plug 3

1650 feet - 1500 feet
150 foot plug
16 Sacks of Type III Cement

Plug 2

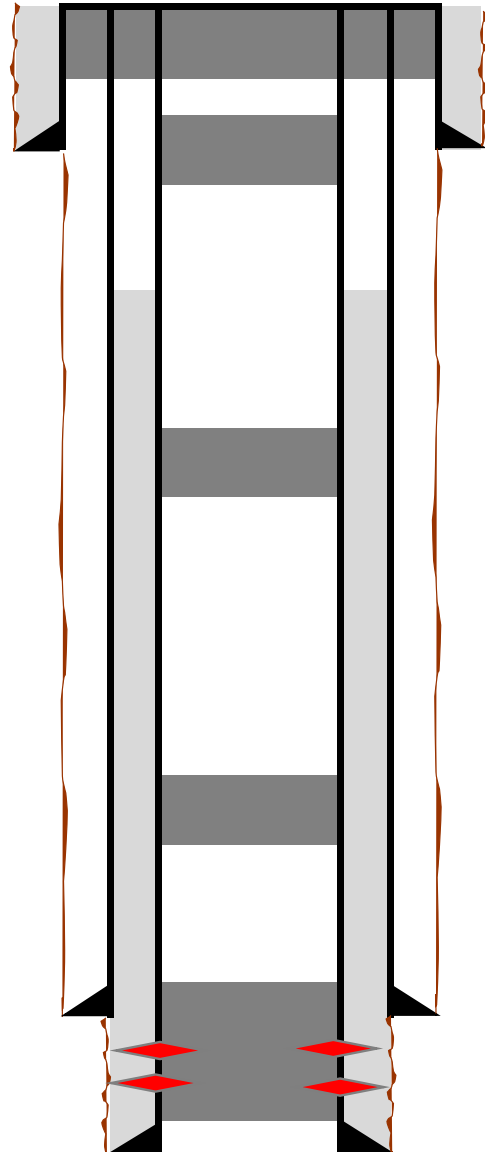
3330 feet - 3180 feet
150 foot plug
16 Sacks of Type III Cement

Plug 1

3920 feet - 3650 feet
270 foot plug
27 sacks of Type III Cement

Perforations

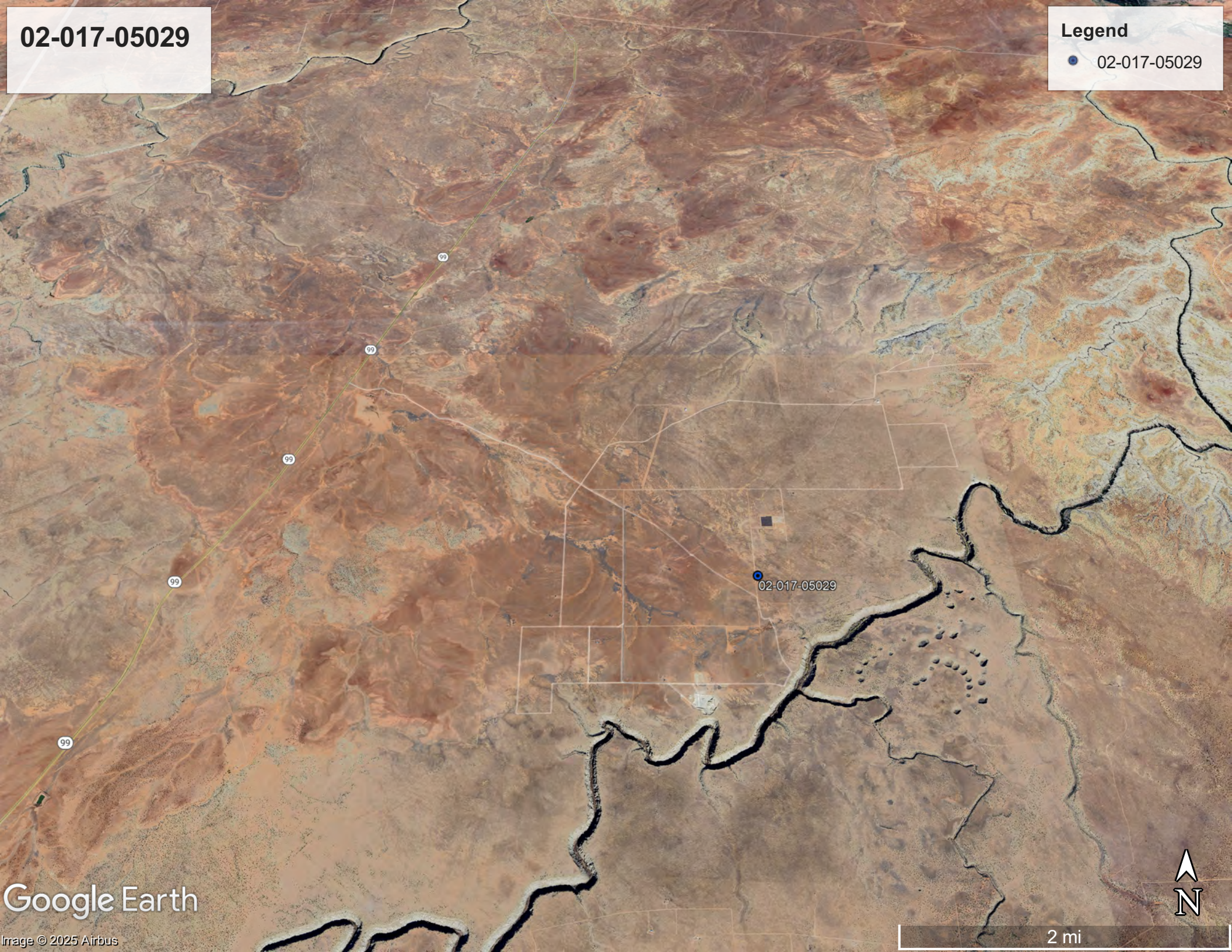
3705' to 3735'
3820' to 3870'



02-017-05029

Legend


- 02-017-05029



Google Earth

Image © 2025 Airbus

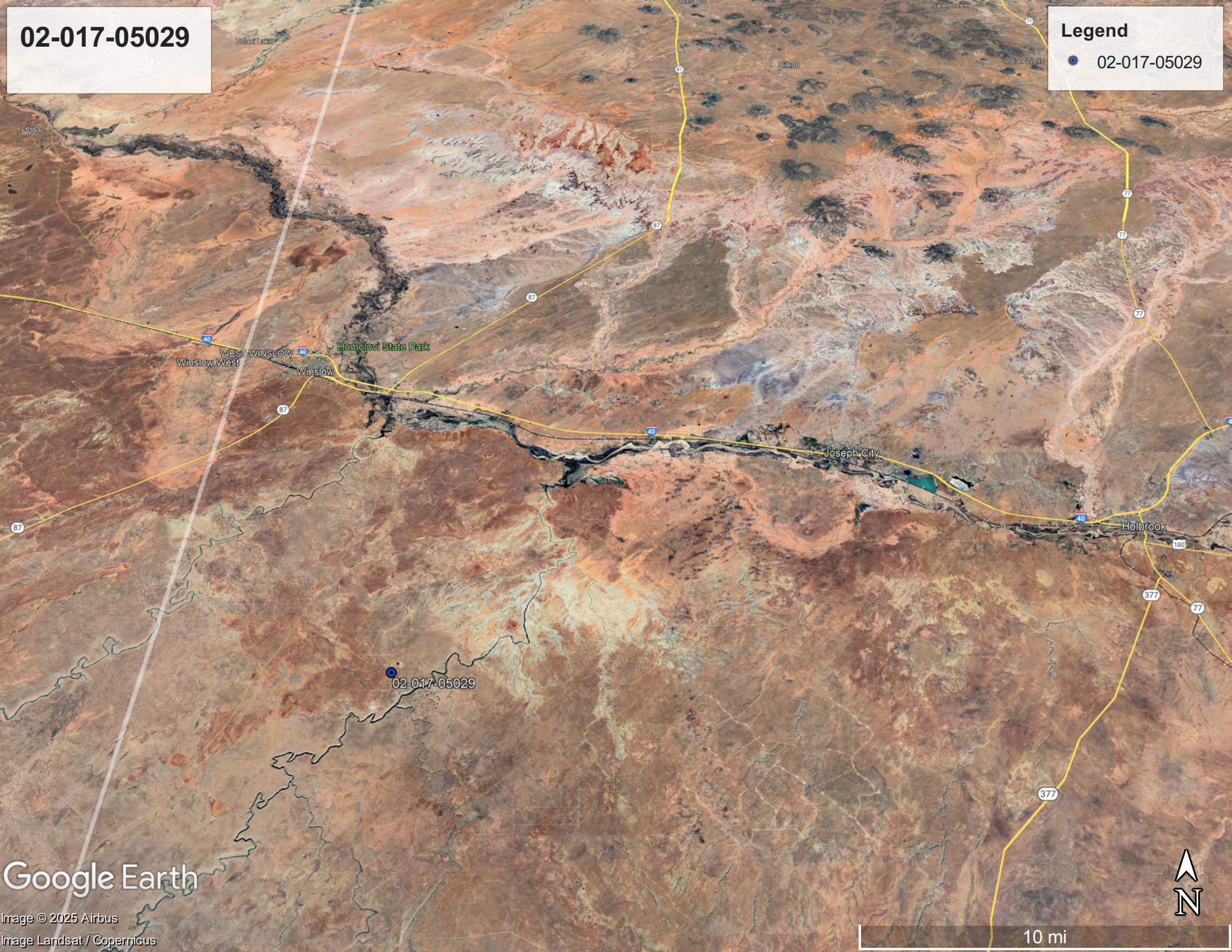
2 mi



02-017-05029

Legend

- 02-017-05029



Google Earth

Image © 2025 Airbus
Image Landsat / Copernicus

10 mi



Agenda Item 3.b.6
API# 02-017-05033

APPLICATION TO PLUG AND ABANDON

FIELD Holbrook

OPERATOR Great Basin Oil (now orphan) ADDRESS & PHONE _____

LEASE NUMBER (Lessor's name if fee) Arizona State Land Department WELL NO. 02-017-05033

LOCATION SW SW Sec. 16,17N-20E

TYPE OF WELL Dry TOTAL DEPTH 4675'
(Oil, Gas, or Dry)

ALLOWABLE (If Assigned) _____

LAST PRODUCTION TEST OIL _____ (Bbls.) WATER _____ (Bbls.)

GAS _____ (MCF) DATE OF TEST _____

PRODUCING HORIZON _____ PRODUCING FROM _____ TO _____

1. COMPLETE CASING RECORD:

- 12-1/2" @ 630'
- 10" @ 978'
- 8-1/4" @ 1,858'
- 6-5/8" @ 2,193'
- 5-13/16" @ 3,465'

2. FULL DETAILS OF PROPOSED PLAN OF WORK:

- Tag 4,260'
- Plug 1: pump from 3,415'-3,515'
- Run cement bond log.
- Plug 2: 2,100'-2,250'
- Plug 3: 1,800'-1,925'
- Plug 4: 900'-1025'
- Plug 5: 580'-680'
- Plug 5: Surface - 250'
- Post abandonment procedures will include:
 - A marker as outlined in AAC R12-7-127 F
 - Restoration as outlined in AAC R12-7-127 G
 - 48 hour notification as outlined in AAC R12-7-127 H
 - Filing of a plugging record within 15 days as outlined in AAC R12-7-127 I

DATE COMMENCING OPERATIONS Mar 15, 2025

NAME OF PERSON DOING WORK Drake Energy Services ADDRESS 607 W Pinon St, Farmington, NM 87401



Signature
Petroleum Engineer

Title
4650 E Cotton Center Blvd, Suite 110, Phoenix, AZ 85040

Address
02/12/2025

Date

Date Approved _____
STATE OF ARIZONA
OIL & GAS CONSERVATION COMMISSION
By _____

STATE OF ARIZONA
OIL & GAS CONSERVATION COMMISSION
Application to Plug and Abandon
File two copies: one by mail, one electronically
Form No. 9

Proposed Wellbore Diagram

Great Basin Oil
Taylor-Fuller #1
API: 02-017-05033
Navajo County, AZ

Plug 6

250 feet - surface
250 foot plug
28 Sacks of Type III Cement

Plug 5

580 feet - 680 feet
100 foot plug
12 Sacks of Type III Cement

Plug 4

1908 feet - 1758 feet
150 foot plug
16 Sacks of Type III Cement

Plug 3

2243 feet - 2093 feet
150 foot plug
16 Sacks of Type III Cement

Plug 2

2800 feet - 2650 feet
150 foot plug
16 Sacks of Type III Cement

Plug 1

3415 feet - 3515 feet
100 foot plug
12 sacks of Type III Cement

Perforations

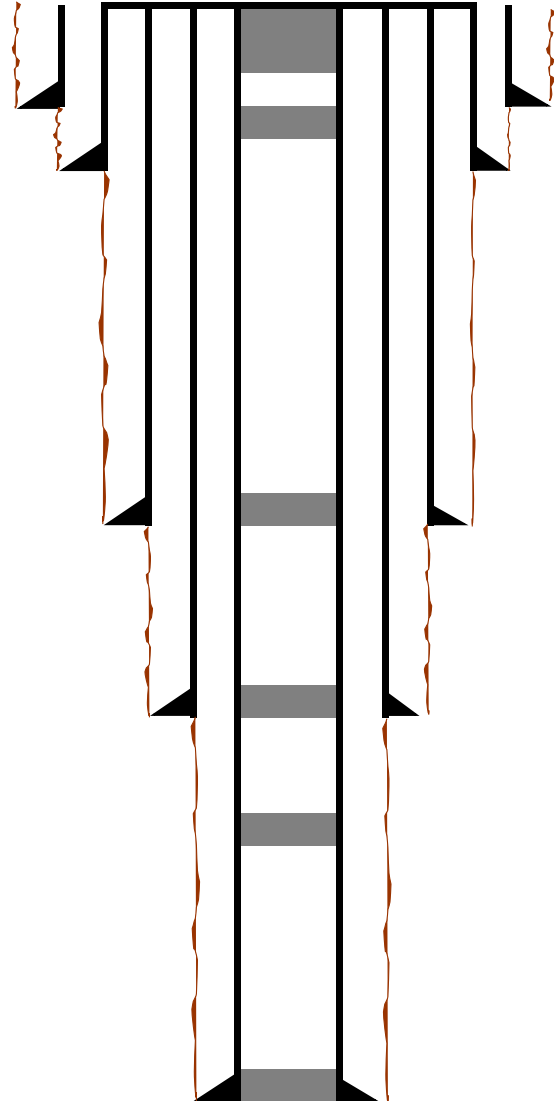
N/A

Estimated Formations

Coconino - 460'
Supai - 2750
Redwall - 3658'

Casing

12.25" to 360'
10" to 978'
8.28" to 1858'
6.625" to 2193'
5.1875" to 3465'



02-017-05033

Legend

- 02-017-05033



Geronimo Trading Post

TA Travel Center

Wiggan Motel

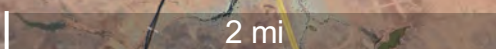
Holbrook

CLEARVIEW HEIGHTS

Guardian Moon Creations

02-017-05033

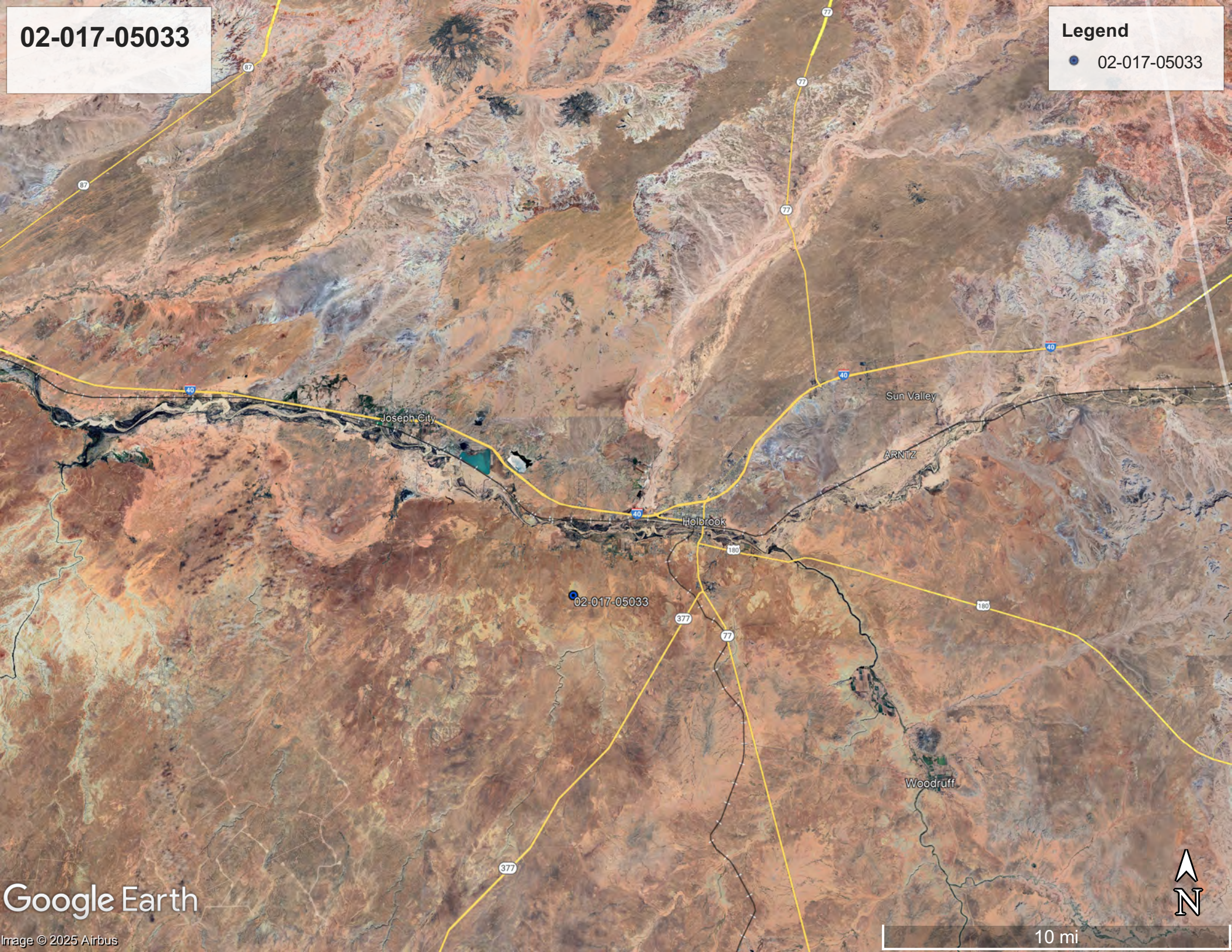
Jim Gray's Petrified Wood



02-017-05033

Legend

● 02-017-05033



Agenda Item 3.b.7
API# 02-003-20009

APPLICATION TO PLUG AND ABANDON

FIELD Arzon Corp #1 State, San Simon, Arizona

OPERATOR Formerly Arzon Corp (orphaned) ADDRESS & PHONE N/A

LEASE NUMBER (Lessor's name if fee) N/A WELL NO. API# 02-003-20009

LOCATION Lat/Long 32.277385, -109.27732; San Simon, Cochise County, Arizona; FID 620214
NW 1/4 of NW 1/4 of Section 27, Township 13 South, Range 30 East

TYPE OF WELL DRY TOTAL DEPTH 4,064' PBTD, 8,974'
(Oil, Gas, or Dry)

ALLOWABLE (If Assigned) N/A

LAST PRODUCTION TEST OIL N/A (Bbls.) WATER N/A (Bbls.)
GAS N/A (MCF) DATE OF TEST N/A

PRODUCING HORIZON N/A PRODUCING FROM N/A TO N/A

1. COMPLETE CASING RECORD:

Surface Casing: 9.625" diameter, 36#, 0' to 546' ; boring 12.25" diameter
Production Casing: 4.5" diameter, 10.5#, 0' to 4064', boring 8.75" diameter
Perforations squeezed from 2800'-3060' ; Perforated from 3956'-3030'
Existing Cement Plug 4107'-4067'
Water contribution from 3030' to 3044' bgs

2. FULL DETAILS OF PROPOSED PLAN OF WORK:

P&A to comply with AAC R12-7-127C. Plugging as follows:
Plug 1: Perforations, 2,980'-2,830', 10 Sacks Type III Cement
Plug 2: Mural and Cintura Formation Tops, 2,650'-2,300', 23 Sacks Type III Cement
Plug 3: Ft. Crittenden Formation Top, 1,650'-1,500', 10 Sacks Type III Cement
Plug 4: Surface Casing Shoe 596'-Surface, 39 Sacks Type III Cement
Post abandonment procedures will include:
A marker as outlined in AAC R12-7-127 F
Restoration as outlined in AAC R12-7-127 G
48 hour notification as outlined in AAC R12-7-127 H
Filing of a plugging record within 15 days as outlined in AAC R12-7-127 I
See Attachment A for diagrams and further details

DATE COMMENCING OPERATIONS March 2025


NAME OF PERSON DOING WORK Drake Well Services ADDRESS 607 W. Pinon St, Farmington, NM 87401

Mail one copy of completed form to:

Oil and Gas Program Administrator
Arizona Department of Environmental Quality
1110 W. Washington Street
Phoenix, AZ 85007

email one copy to: ogcc@azdeq.gov

Signature


Abra Bentley, RG, President, Hydro Geo Chem, Inc.

Title

51 W Wetmore Road Tucson, AZ 85705

Address

2/26/25

Date

Date Approved _____

STATE OF ARIZONA
OIL & GAS CONSERVATION COMMISSION

By _____

STATE OF ARIZONA
OIL & GAS CONSERVATION COMMISSION

Application to Plug and Abandon

File two copies: one by mail, one electronically

Form No. 9

Permit No. 887

12/2016

Arzon Corp.

Plug And Abandonment Procedure

Arzon Corp. #001 State

660' FNL, 660' FWL, Sec. 27, 13S, 30E

Cochise County, AZ / API 02-003-20009

1. Hold pre-job safety meeting. Comply with all AZ safety and environmental regulations. Test rig anchors prior to moving in rig if not rigged to base beam or outriggers.
2. Perform spiral gas check. Check casing, tubing, and Bradenhead pressures.
3. Remove existing piping on casing valve. RU blow lines from casing valves and begin blowing down casing pressure. Ensure well is dead or on a vacuum. Kill well as necessary.
4. ND wellhead and NU BOP. Function test BOP.
5. P/U 4-1/2" bit or casing scraper on 2-3/8" work string and round trip as deep as possible above top perforation at 3,030'.
6. P/U 4-1/2" CR, TIH and set CR at +/- 2,980'. Pressure test tubing to 1000 psi. Sting out of CR. Load hole, and pressure test casing to 800 psi. If casing does not test, then spot or tag subsequent plugs as appropriate. POOH w/ tubing.
7. RU wireline and run CBL from 2,980' to surface to identify TOC. Adjust plugs as necessary for new TOC. Email log copy to Melissa Mauzy at melissam@hgcinc.com and Abra Bently at abrab@hgcinc.com upon completions of logging operations.

8. Rig up to pump cement down tubing. Pump water to establish rate down tubing.
9. Circulate wellbore.

NOTE: All Plugs Include excess.

10. Plug 1: Perforations, 2,980'-2,830', 10 Sacks Type III Cement

Mix 10 sx Type III cement and spot a balanced plug inside casing to cover the perforations.

11. Plug 2: Mural and Cintura Formation Tops, 2,650'-2,300', 23 Sacks Type III Cement

Mix 23 sx Type III cement and spot a balanced plug inside casing to cover the Mural and Cintura formation tops.

12. Plug 3: Ft. Crittenden Formation Top, 1650'-1500', 10 Sacks Type III Cement

Mix 10 sx Type III cement and spot a balanced plug inside casing to cover the Ft. Crittenden formation top.

13. Plug 4: Surface Casing Shoe 596'-Surface, 39 Sacks Type III Cement

Attempt to pressure test the bradenhead annulus to 300 psi; note the volume to load. If BH annulus holds pressure, then establish circulation out casing valve with water. Mix approximately 39 sx cement and spot a balanced plug from 596' to surface, circulate good cement out of casing valve. TOH and LD tubing. Shut well in and WOC. If BH annulus does not test, then perforate at the appropriate depth and attempt to circulate cement to surface filling the casing from 596' and the annulus from the squeeze holes to surface. Shut in well and WOC.

14. ND cementing valves and cut off wellhead. Fill annuli with cement as necessary. Install P&A marker to comply with regulations. Record GPS coordinate for P&A marker on tower report. Photograph P&A marker in place. RD and MOL.

Proposed Wellbore Diagram

Arzon Corporation
 Arzon Corporation 1 State
 API: 02-003-20009
 Cochise County, AZ

Surface Casing

9.625" 36# @ 546 ft
 OH: 12.25'
 Cemented with 350 sx

Estimated Formations

Ft. Crittenden - 1600'
 Cintura - 2400'
 Mural - 2600'
 Water Zones - 3030' - 3044'
 Morita - 3600'

Plug 4

596 feet - surface
 596 foot plug
 39 Sacks of Type III Cement

Plug 3

1650 feet - 1500 feet
 150 foot plug
 10 Sacks of Type III Cement

Plug 2

2650 feet - 2300 feet
 350 foot plug
 23 Sacks of Type III Cement

Plug 1

2980 feet - 2830 feet
 150 foot plug
 10 sacks of Type III Cement

Perforations squeezed from 2800-3060
 W/ 110 sacks

Production Casing

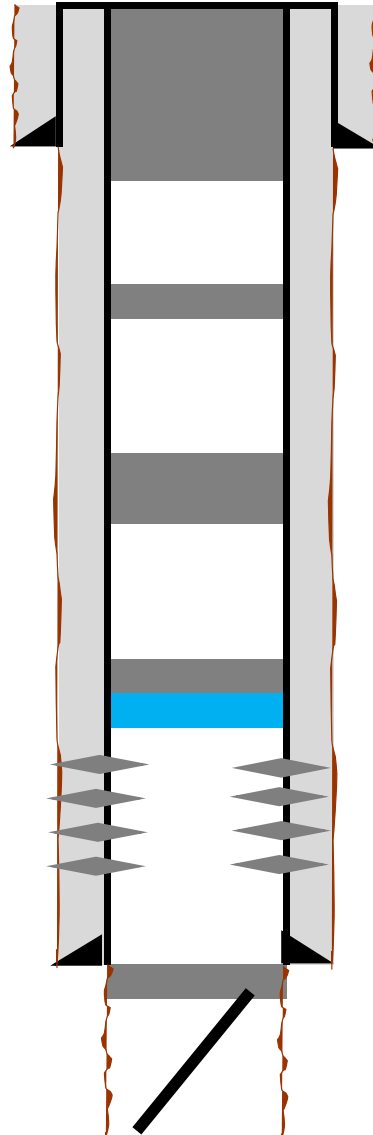
4.5" 10.5# @ 4064 feet
 OH: 8.75"
 Cemented with 570 sx
 TD: 8,974 feet

Existing Plug 4107' to 4067'

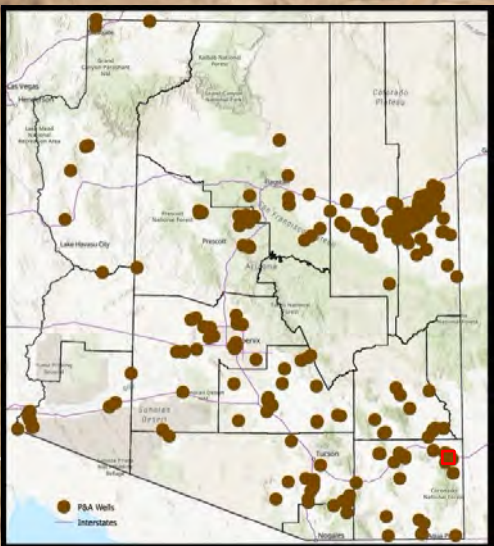
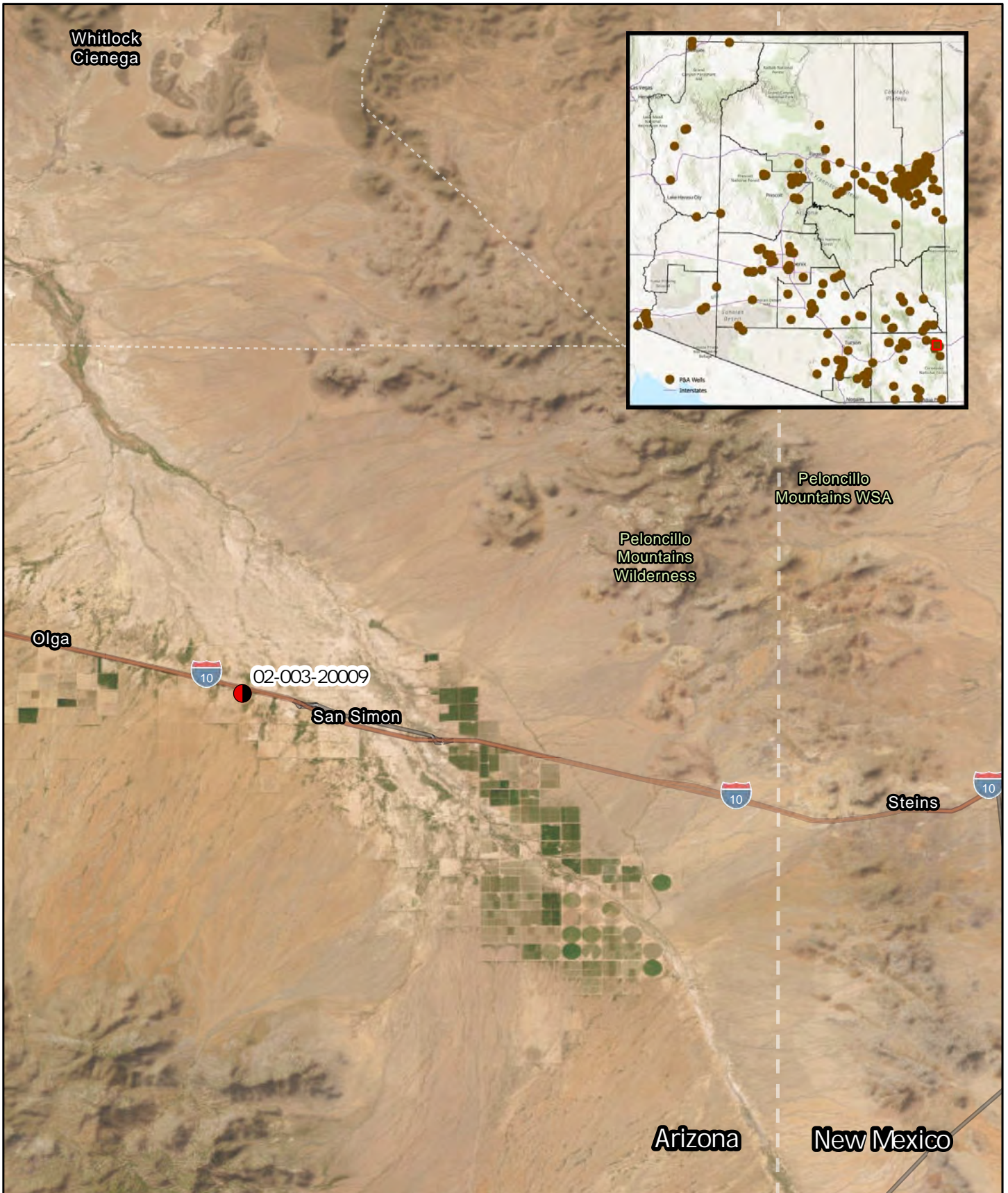
Perforations

3956 feet to 3030 feet

Fish left in hole (24-6 1/4 DC & 1 JT.
 From 4995'-4211')



CR @ 2980'




0 2.5 5 Miles



HYDRO GEO CHEM, INC.
Environmental Science & Technology



Legend

 Well Location

API 02-003-20009 WELL LOCATION

Oil & Gas Orphan Wells, Plug & Abandon
Cochise County
State of Arizona

Author	Date	File Reference	Figure
CJS	01/24/25	2022023233G_WellLoc_20009	1

Agenda Item 3.b.8
API# 02-003-05020

APPLICATION TO PLUG AND ABANDON

FIELD Ryan et al., San Simon, Arizona

OPERATOR Formerly R. J. Ryan and Assoc. (orphaned) ADDRESS & PHONE N/A

LEASE NUMBER (Lessor's name if fee) N/A WELL NO. API# 02-003-05020

LOCATION Lat/Long 32.17052, -109.27277; San Simon, Cochise County, Arizona; FID 620557
SE 1/4 of NW 1/4 of Section 34, Township 14 South, Range 30 East

TYPE OF WELL DRY TOTAL DEPTH 990 ft
(Oil, Gas, or Dry)

ALLOWABLE (If Assigned) N/A

LAST PRODUCTION TEST OIL N/A (Bbls.) WATER N/A (Bbls.)
GAS N/A (MCF) DATE OF TEST N/A

PRODUCING HORIZON N/A PRODUCING FROM N/A TO N/A

1. COMPLETE CASING RECORD:

Surface Casing: 8.25" diameter steel surface casing; 0' to 404' bgs; assumed 11" diameter borehole
Assumed open hole, 7.5" diameter (drilled for 6.25" casing), to 990' bgs
Heavy showings of oil and gas from 360' to 520' bgs

2. FULL DETAILS OF PROPOSED PLAN OF WORK:


P&A to comply with AAC R12-7-127B. Plugging as follows:
Plug 1: TD and the Surface Casing Shoe, 990'-Surface, 320 Sacks Type III Cement
Mix 320 sacks Type III cement and spot a balanced plug inside casing to cover the surface casing shoe.
Depending on the CBL, perforate surface casing and fill annulus to surface.
Note: Plug may have to be pumped in stages due to the size of the plug.

Post abandonment procedures will include:
A marker as outlined in AAC R12-7-127 F
Restoration as outlined in AAC R12-7-127 G
48 hour notification as outlined in AAC R12-7-127 H
Filing of a plugging record within 15 days as outlined in AAC R12-7-127 I
See Attachment A for diagrams and further details

DATE COMMENCING OPERATIONS April 2025

NAME OF PERSON DOING WORK Drake Well Services ADDRESS 607 W. Pinon St, Farmington, NM 87401

Mail one copy of completed form to:
Oil and Gas Program Administrator
Arizona Department of Environmental Quality
1110 W. Washington Street
Phoenix, AZ 85007
email one copy to: ogcc@azdeq.gov


Signature
Abra Bentley, RG, President, Hydro Geo Chem, Inc.
Title
51 W Wetmore Road Tucson, AZ 85705
Address
2/26/25
Date

Date Approved _____
STATE OF ARIZONA
OIL & GAS CONSERVATION COMMISSION
By _____

STATE OF ARIZONA
OIL & GAS CONSERVATION COMMISSION
Application to Plug and Abandon
File two copies: one by mail, one electronically
Form No. 9

Permit No. 02-13

Ryan Et Al

Plug And Abandonment Procedure

Ryan Et Al State #001

1980' FNL, 1980' FWL, Section 34, 14S, 30E

Cochise County, AZ / API 02-003-05020

1. Hold pre-job safety meeting. Comply with all AZ safety and environmental regulations. Test rig anchors prior to moving in rig if not rigged to base beam or outriggers.
2. Perform spiral gas check. Check casing, tubing, and Bradenhead pressures.
3. Remove existing piping on casing valve. RU blow lines from casing valves and begin blowing down casing pressure. Kill well as necessary. Ensure the well is dead or on a vacuum.
4. ND wellhead and NU BOP. Function test BOP.
5. If a blockage is reported TIH with a bit and drill out the blockage to 990'.
6. Circulate wellbore.
7. RU wireline and run CBL from 404" to surface to identify TOC. Adjust plugs as necessary for new TOC. Email log copy to Melissa Mauzy at melissam@hgcinc.com and Abra Bently at abrab@hgcinc.com upon completions of logging operations.

8. Plug 1: TD and the Surface Casing Shoe, 990'-Surface, 320 Sacks Type III Cement

Mix 320 sx Type III cement and spot a balanced plug inside casing to cover the surface casing shoe. Depending on the CBL perforate surface casing and fill annulus to surface.

Note: Plug may have to be pumped in stages due to the size of the plug.

9. ND cementing valves and cut off wellhead. Fill annuli with cement as necessary. Install P&A marker to comply with regulations. Record GPS coordinate for P&A marker on tower report. Photograph P&A marker in place. RD am MOL.

Proposed Wellbore Diagram

Ryan Et Al
Ryan Et Al State #001
API: 02-003-05020
Cochise County, Arizona

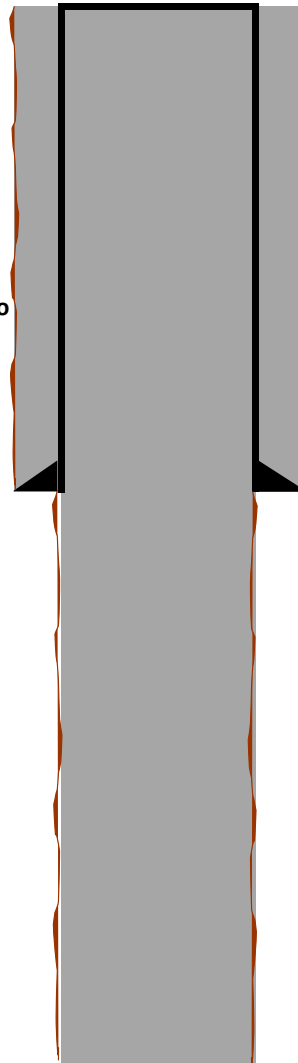
Surface Casing
8.25" to 404'
OH: Unknown
Assumed 11" Hole

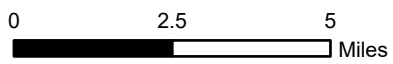
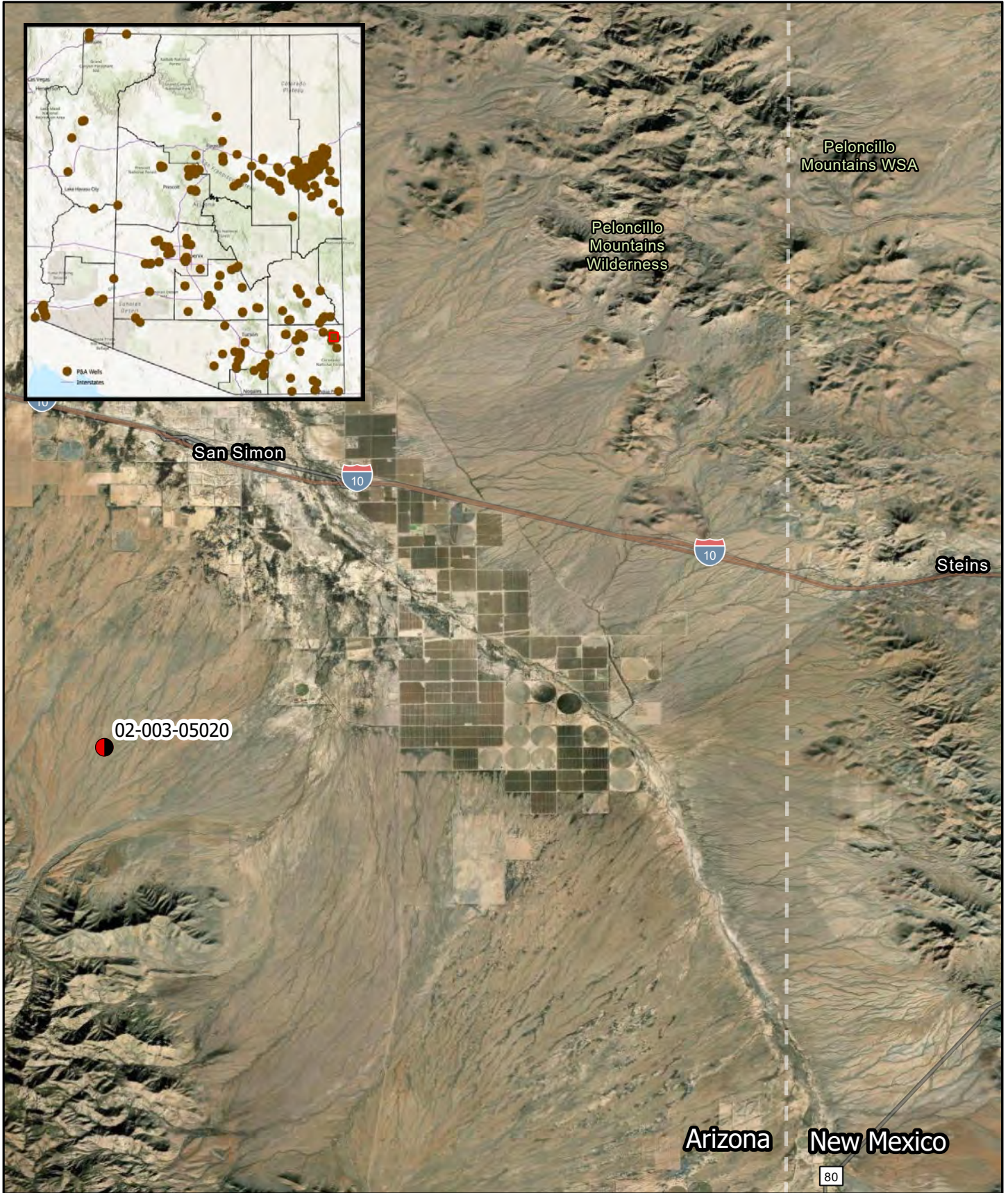
Formations
None Listed
Gas Pockets mentioned from 360' to
520'


Plug 1
990 Feet - Surface
990 Foot Plug
320 Sacks of Type III Cement

Perforations
N/A

Open Hole
Drilled for 6.25" Casin
Unknown If Casing Was Ran
Assumed 7.5" Hole
Depth: 990'





Legend
 Well Location



API 02-003-05020 WELL LOCATION

Oil & Gas Orphan Wells, Plug & Abandon
 Cochise County
 State of Arizona

Author CJS	Date 02/24/25	File Reference 2022023234G_WellLoc_05020	Figure 1
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Agenda Item 3.b.9
API# 02-003-05000

APPLICATION TO PLUG AND ABANDON

FIELD Fitzwater-Thayer #1, San Simon, Arizona

OPERATOR Formerly Fitzwater-Thayer (orphaned) ADDRESS & PHONE N/A

LEASE NUMBER (Lessor's name if fee) N/A WELL NO. API# 02-003-05000

LOCATION Lat/Long 32.25264, -109.2159; San Simon, Cochise County, Arizona; Parcel # 303-35-016E
SW 1/4 of SE 1/4 of Section 31, Township 13 South, Range 31 East

TYPE OF WELL DRY TOTAL DEPTH 4,107'
(Oil, Gas, or Dry)

ALLOWABLE (If Assigned) N/A

LAST PRODUCTION TEST OIL N/A (Bbls.) WATER N/A (Bbls.)
GAS N/A (MCF) DATE OF TEST N/A

PRODUCING HORIZON N/A PRODUCING FROM N/A TO N/A

1. COMPLETE CASING RECORD:

Surface Casing: 8-5/8" diameter; 0' bgs to approximately 860'
Open Hole: Assumed 5.5" diameter
Existing plug from 3695' to 3700' bgs. Previous plug was dressed off from 3850' to 3700' bgs.
Reported total depth varies and assumed to be 4107' bgs

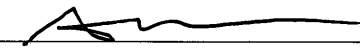
2. FULL DETAILS OF PROPOSED PLAN OF WORK:

P&A to comply with AAC R12-7-127B Plugging as follows:
Run CBL with 500 psi on casing from bottom of casing to surface to identify TOC. Adjust plugs as necessary for new TOC.
Plug 1 (3,700'-3,390, 25 Sacks Type III Cement)
Mix 25 sacks Type III cement and spot a balanced plug inside casing to cover the existing abandonment.
Plug 2 (Valley Fill Formation Top, 2,900'-2,750', 13 Sacks Type III Cement)
Mix 13 sacks Type III cement and spot a balanced plug inside casing to cover the Valley Fill formation top.
Plug 3 (Surface, 960'-Surface, 350 Sacks Type III Cement)
Mix approximately 350 sacks cement and spot a balanced plug from 960' to surface.
Post abandonment procedures will include:
A marker as outlined in AAC R12-7-127 F, Restoration as outlined in AAC R12-7-127 G,
48 hour notification as outlined in AAC R12-7-127 H, Filing of a plugging record within 15 days as outlined in AAC R12-7-127 I
See Attachment A for diagrams and further details

DATE COMMENCING OPERATIONS April 2025

NAME OF PERSON DOING WORK Drake Well Services ADDRESS 607 W. Pinon St, Farmington, NM 87401

Mail one copy of completed form to:
Oil and Gas Program Administrator
Arizona Department of Environmental Quality
1110 W. Washington Street
Phoenix, AZ 85007
email one copy to: ogcc@azdeq.gov


Signature
Abra Bentley, RG, President, Hydro Geo Chem, Inc.
Title
51 W Wetmore Road Tucson, AZ 85705
Address
2/27/25
Date

Date Approved _____
STATE OF ARIZONA
OIL & GAS CONSERVATION COMMISSION
By _____

STATE OF ARIZONA
OIL & GAS CONSERVATION COMMISSION
Application to Plug and Abandon
File two copies: one by mail, one electronically
Form No. 9

Fitzwater

Plug And Abandonment Procedure

Fitzwater 1 Thayer

990' FSL & 1960' FSL, Section 31, 13S, 31E

Cochise County, NM / API 02-003-05000

1. Hold pre-job safety meeting. Comply with all AZ, BLM safety and environmental regulations. Test rig anchors prior to moving in rig if not rigged to base beam.
2. Perform spiral gas check. Check casing, tubing, and Bradenhead pressures.
3. Remove existing piping on casing valve. RU blow lines from casing valves and begin blowing down casing pressure. Perform mandatory 40 bbls well kill. If a different fluid or amount is required kill well as necessary. Ensure the well is dead or on a vacuum.
4. ND wellhead and NU BOP. Function test BOP.
5. P/U 4-1/2" bit or 2-3/8" work string and round trip as deep as possible to existing plug at 3700'.
6. RU wireline and run CBL with 500 psi on casing from bottom of casing to surface to identify TOC. Adjust plugs as necessary for new TOC. Email log copy to Melissa Mauzy at melissam@hgcinc.com upon completions of logging operations.
7. Rig up to pump cement down tubing. Pump water to establish rate down tubing.

8. Circulate wellbore with fresh water.

9. Plug 1 **(3,700'-3,390, 25 Sacks Type III Cement)**

Mix 25 sx Type III cement and spot a balanced plug inside casing to cover the existing abandonment.

10. Plug 2 **(Valley Fill Formation Top, 2,900'-2,750', 13 Sacks Type III Cement)**

Mix 13 sx Type III cement and spot a balanced plug inside casing to cover the Valley Fill formation top.

11. Plug 3 **(Surface, 960'-Surface, 350 Sacks Type III Cement)**

Attempt to pressure test the bradenhead annulus to 300 psi; note the volume to load. If BH annulus holds pressure, then establish circulation out casing valve with water. Mix approximately 350 sx cement and spot a balanced plug from 960' to surface, circulate good cement out of casing valve. TOH and LD tubing. Shut well in and WOC. If BH annulus does not test, then perforate at the appropriate depth and attempt to circulate cement to surface filling the well from 960' and the annulus from the squeeze holes to surface. Shut in well and WOC.

12. ND cementing valves and cut off wellhead. Fill annuli with cement as necessary. Install P&A marker to comply with regulations. Record GPS coordinate for P&A marker on tower report. Photograph P&A marker in place. RD, MOL and restore location per BLM stipulations.

Proposed Wellbore Diagram

Fitzwater
Fitzwater 1 Thayer
API: 02-003-05000
Cochise County, AZ

Surface Casing
8-5/8" to ~860'
OH: Unknown

Plug 3
960 feet - Surface
960 foot plug
350 Sacks of Type III Cement

Plug 2
2900 feet - 2750
150 foot plug
13 Sacks of Type III Cement

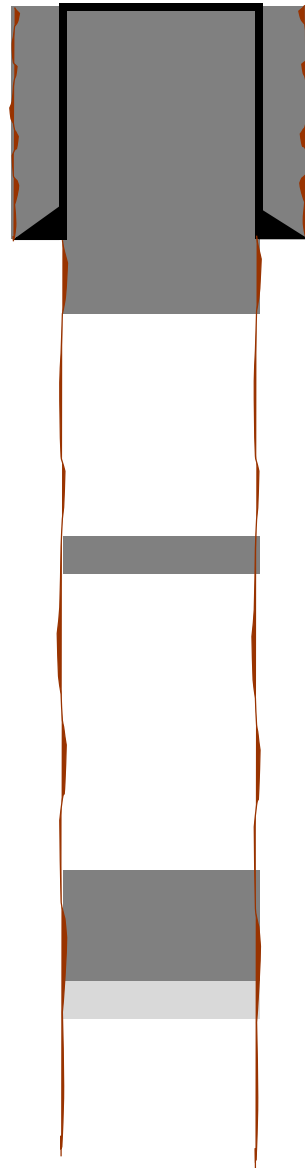
Plug 1
3700 feet - 3390
310 foot plug
25 Sacks of Type III Cement

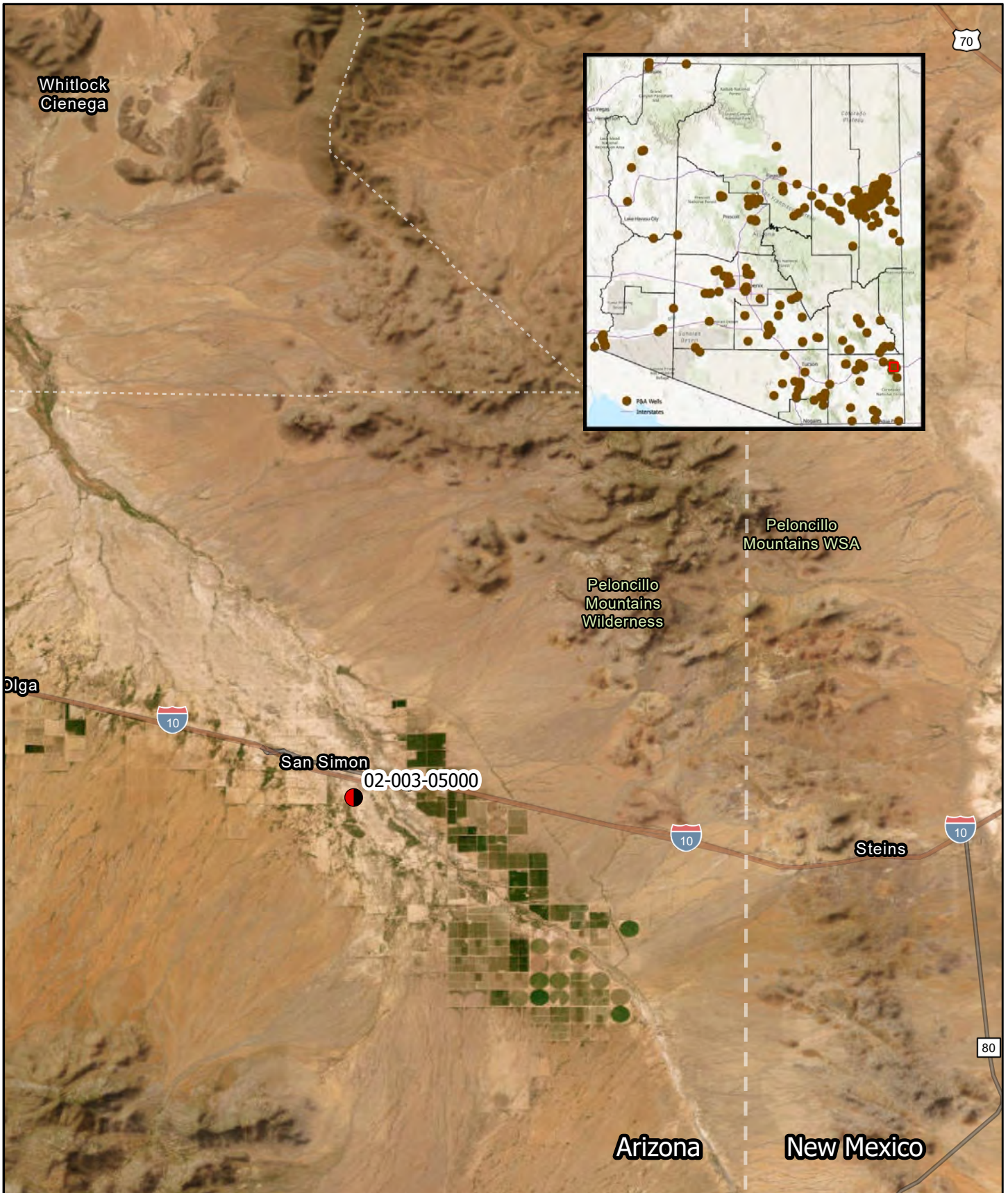
Estimated Formations
Valley Fill 0'- 2800'
Volcanics 2800'- 4107'

Existing plug from 3695' to 3700'.
Plug was drilled down from
3850' to 3700'.

Perforations
N/A

Open Hole
Hole Size: Unknown
Assumed 5.5" Hole
TD: 4107'






0 2.5 5 Miles



Legend

 Well Location



HYDRO GEO CHEM, INC.
Environmental Science & Technology

API 02-003-05000 WELL LOCATION

Oil & Gas Orphan Wells, Plug & Abandon
Cochise County
State of Arizona

Author	Date	File Reference	Figure
CJS	02/24/25	2022023235G_WellLoc_05000	1

Agenda Item 3.b.10

API# 02-003-05043

APPLICATION TO PLUG AND ABANDON

FIELD Cochise Oil Company 1 Goldman , Douglas, Arizona

OPERATOR Formerly Cochise Oil Company (orphaned) ADDRESS & PHONE N/A

LEASE NUMBER (Lessor's name if fee) N/A WELL NO. API# 02-003-05043

LOCATION Lat/Long 31.3917, -109.59576; 2097 W. Rochin Rd. Douglas, Cochise County, Arizona; Parcel # 407-59-001B
NW 1/4 of NW 1/4 of Section 34, Township 23 South, Range 27 East

TYPE OF WELL DRY TOTAL DEPTH 1,000 ft
(Oil, Gas, or Dry)

ALLOWABLE (If Assigned) N/A

LAST PRODUCTION TEST OIL N/A (Bbls.) WATER N/A (Bbls.)
GAS N/A (MCF) DATE OF TEST N/A

PRODUCING HORIZON N/A PRODUCING FROM N/A TO N/A

1. COMPLETE CASING RECORD:

Surface Casing: 10" diameter 0' to 250' bgs
Open Hole: Estimated 8.75" diameter to 1000'
Possible Cement/Mud Plug From 250' bgs to Surface

2. FULL DETAILS OF PROPOSED PLAN OF WORK:

P&A to comply with AAC R12-7-127B. Plugging as follows:
Plug 1 (**Open Hole to Surface, 1000'-Surface, 610 Sacks Type III Cement**)
Mix approximately 305 sacks cement and spot a balanced plug from 1000' to surface.

Post abandonment procedures will include:
A marker as outlined in AAC R12-7-127 F
Restoration as outlined in AAC R12-7-127 G
48 hour notification as outlined in AAC R12-7-127 H
Filing of a plugging record within 15 days as outlined in AAC R12-7-127 I
See Attachment A for diagrams and further details

DATE COMMENCING OPERATIONS April 2025

NAME OF PERSON DOING WORK Drake Well Services ADDRESS 607 W. Pinon St, Farmington, NM 87401

Mail one copy of completed form to:
Oil and Gas Program Administrator
Arizona Department of Environmental Quality
1110 W. Washington Street
Phoenix, AZ 85007
email one copy to: ogcc@azdeq.gov

Signature
Abra Bentley, RG, President, Hydro Geo Chem, Inc.
Title
51 W Wetmore Road Tucson, AZ 85705
Address
2/27/25
Date

Date Approved _____
STATE OF ARIZONA
OIL & GAS CONSERVATION COMMISSION
By _____

STATE OF ARIZONA
OIL & GAS CONSERVATION COMMISSION
Application to Plug and Abandon
File two copies: one by mail, one electronically
Form No. 9

Cochise Oil

Plug And Abandonment Procedure

Cochise Oil 1 Goldman

671' FNL & 207' FWL, Section 34, 23S, 27E

Cochise County, AZ / API: 02-003-05043

1. Hold pre-job safety meeting. Comply with all AZ, BLM safety and environmental regulations. Test rig anchors prior to moving in rig if not rigged to base beam.
2. Perform spiral gas check. Check casing, tubing, and Bradenhead pressures.
3. Remove existing piping on casing valve. RU blow lines from casing valves and begin blowing down casing pressure. Perform mandatory 40 bbls well kill. If a different fluid or amount is required kill well as necessary. Ensure the well is dead or on a vacuum.
4. ND wellhead and NU BOP. Function test BOP.
5. P/U 4-1/2" bit on 2-3/8" work string and round trip as deep as possible to TD at 1000'.
6. Rig up to pump cement down tubing. Pump water to establish rate down tubing.
7. Circulate wellbore with fresh water.

NOTE: All Plugs Include 100% excess outside casing and 50% Excess inside casing

8. Plug 1 (Open Hole to Surface, 1000'-Surface, 610 Sacks Type III Cement)

Attempt to pressure test the bradenhead annulus to 300 psi; note the volume to load. If BH annulus holds pressure, then establish circulation out casing valve with water. Mix approximately 305 sx cement and spot a balanced plug from 1000' to surface, circulate good cement out of casing valve. TOH and LD tubing. Shut well in and WOC. If BH annulus does not test, then perforate at the appropriate depth and attempt to circulate cement to surface filling the casing from 1000' and the annulus from the squeeze holes to surface. Shut in well and WOC.

9. ND cementing valves and cut off wellhead. Fill annuli with cement as necessary. Install P&A marker to comply with regulations. Record GPS coordinate for P&A marker on tower report. Photograph P&A marker in place. RD, MOL and restore location per BLM stipulations.

Proposed Wellbore Diagram

Cochise Oil
Cochise Oil 1 Goldman
API: 02-003-05043
Cochise County, AZ

Surface Casing

10" to 250'

OH: Unknown

Plug 1

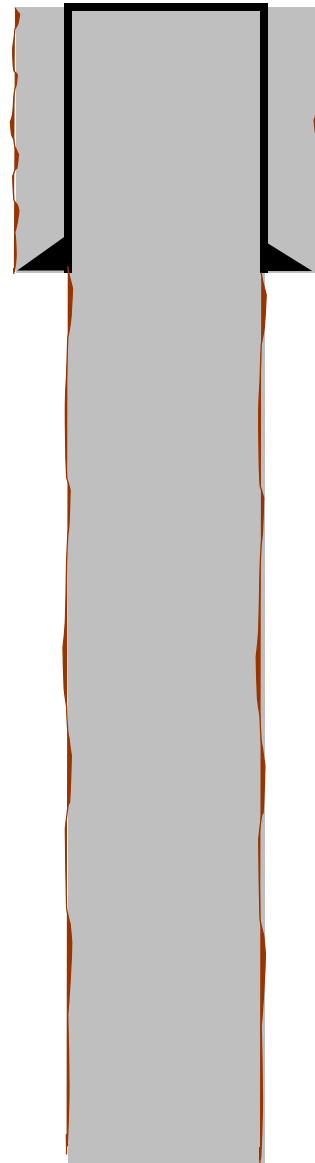
1000 feet - Surface

1000 foot plug

610 Sacks of Type III Cement

Estimated Formations

Unknown

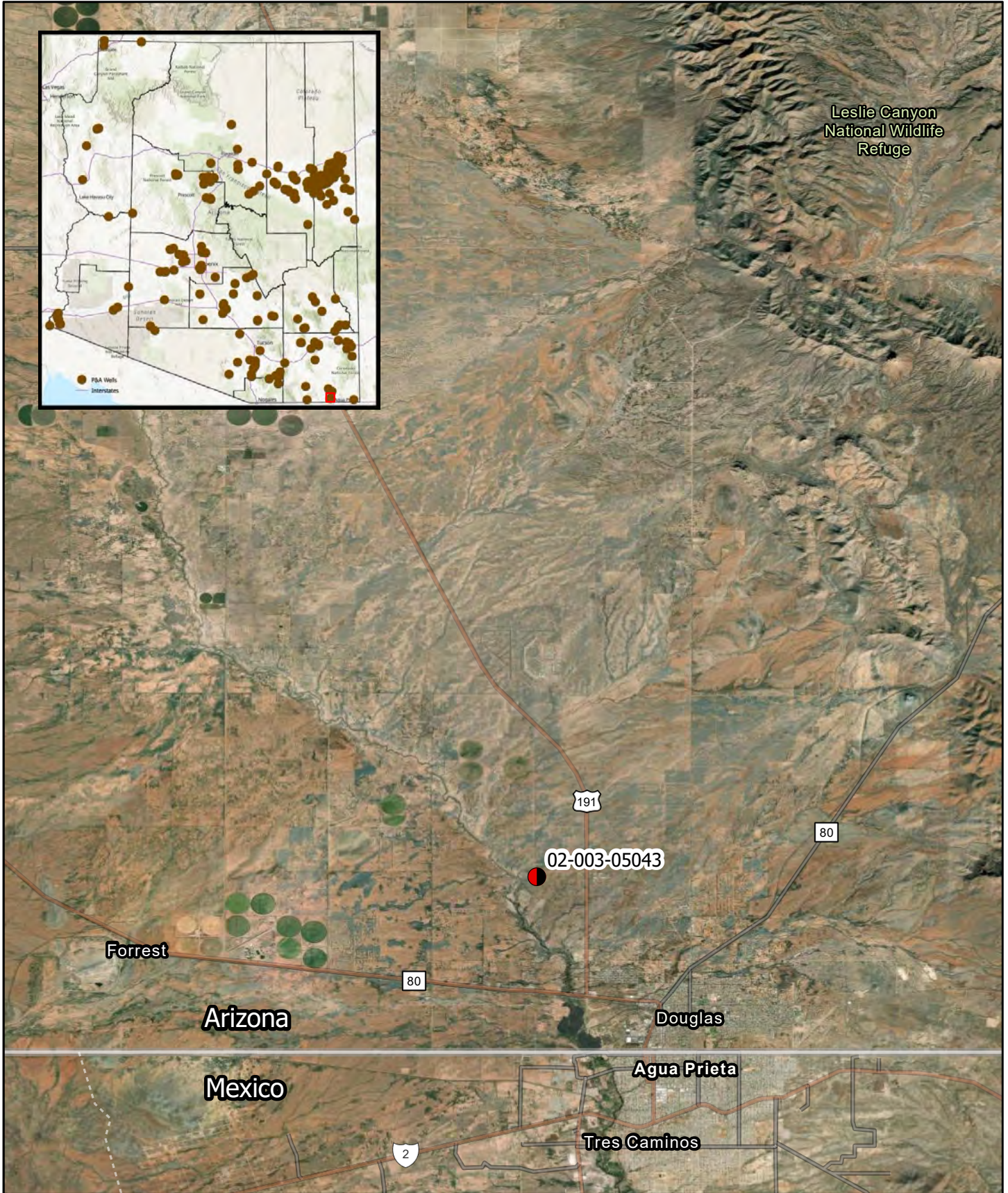


Perforations

N/A

Open Hole

≈8.75" to 1000'



0 2.5 5 Miles

Legend

Well Location

HYDRO GEO CHEM, INC.
Environmental Science & Technology

API 02-003-05043 WELL LOCATION			
Oil & Gas Orphan Wells, Plug & Abandon Cochise County State of Arizona			
Author CJS	Date 02/24/25	File Reference 2022023236G_WellLoc_05043	Figure 1

Agenda Item 3.c.1

API# 02-017-05153

PLUGGING RECORD

Operator Orphan - plugged by TetraTech / ADEQ		Address & Phone number	
Federal, State, or Indian Lease No. or lessor's name if fee lease Aztec Land & Cattle Company Fee		Well No. 1	Field & Reservoir Holbrook - Devonian
Location of Well 23 miles Southwest of Holbrook, AZ		Sec - Twp - Rge 19 - 15N - 19E	
		County Navajo	
Application to drill this well was filed in name of Union and Continental Oil	Has this well ever produced oil or gas?	Character of well at completion (initial production) Oil (bbls/day) Gas (MCF/day) Dry?	
Date plugged 01/12/2025	Total depth 3,850'	Amount well producing when plugged: Oil (bbls/day) Gas (MCF/day) Water (bbls/day) N/A N/A N/A	
Name of each formation containing oil or gas. Indicate which formation open to wellbore at time of plugging	Fluid content of each formation	Depth interval of each formation	Size, kind & depth of plugs used. Indicate zones squeeze cemented, giving amount of cement
Dry hole			multiple plugs from 850'-surface - 569 sx cmt

CASING RECORD

Size pipe	Put in well (ft.)	Pulled out (ft.)	Left in well (ft.)	Give depth and method of parting casing (shot, etc.)	Packers and shoes
10.75"	747'	0	747'		
2.375"	690'	363'	327'	back off	

Was well filled with heavy drilling mud, according to regulations?

Indicate deepest formation containing fresh water
Coconino - base at 560'

NAME AND ADDRESSES OF ADJACENT LEASE OPERATORS OR OWNERS OF THE SURFACE

Name	Address	Direction from this well
Aztec Land and Cattle Company	4647 N 32nd St #240, Phoenix, AZ 85018	Surface owner

In addition to other information required on this form, if this well was plugged back for use as a fresh water well, give all pertinent details of plugging operations to base of fresh water sand, perforated interval to fresh water sand, name and address of surface owner, and attach letter from surface owner authorizing completion of this well as a water well and agreeing to assume full liability for any subsequent plugging which might be required.

Use reverse side for additional detail

CERTIFICATE: I, the undersigned, under the penalty of perjury, state that I am the project manager of the contractor Tetra Tech (company) and that I am authorized by said company to make this report; and that this report was prepared under my supervision and direction and that the facts stated therein are true, correct and complete to the best of my knowledge.

01/30/2025

Date



Signature

Permit No. 09-05

Mail one copy of completed form to:
Oil and Gas Program Administrator
Arizona Department of Environmental Quality
1110 W. Washington Street
Phoenix, AZ 85007

email **one** copy to: ogcc@azdeq.gov

STATE OF ARIZONA
OIL & GAS CONSERVATION COMMISSION
Plugging Record

File two copies: one by mail, one electronically

Form No. 10

Post Plugging Report

API Well 02-017-05153

Union and Continental Oil Aztec 1



Project: 117-1303183B
Task: 3.02-017-05153

January 30, 2025

PREPARED FOR

Arizona Department of Environmental Quality
Oil and Gas Program
1110 W Washington Street
Phoenix, AZ 85022

PRESENTED BY

Tetra Tech, Inc.
4650 East Cotton Center Blvd.
Suite 110
Phoenix, AZ 85040



TETRA TECH

TABLE OF CONTENTS

1.0 Introduction	1
2.0 Abandonment Activities.....	2
2.1 Abandonment Application	2
2.2 Abandonment Procedures	2

FIGURES

Figure 1 – API Well 02-017-05153 Well Location	1
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APPENDICES

Appendix A – Form 9: Application to Plug and Abandon

Appendix B – Tetra Tech Daily Log

Appendix C – Cement Bond Log

Appendix D – Drake Daily Reports

Appendix E – Form 10: Plugging Record

Appendix F – Drake’s Plug and Abandonment End of Well Report

Appendix G – Tetra Tech Photo Log

1.0 INTRODUCTION

API Well 02-017-05153 is known as the Union and Continental Oil Aztec 1 and is in Navajo County, Arizona, in the NE $\frac{1}{4}$ of the NE $\frac{1}{4}$ of Section 19, Township 15 North, Range 18 East of the Gila-Salt River Principal Meridian. This location is at the approximate mapping coordinates of Latitude 34.68475 and Longitude -110.46743. **Figure 1**, below, illustrates the general location of this well based upon the currently available data set.

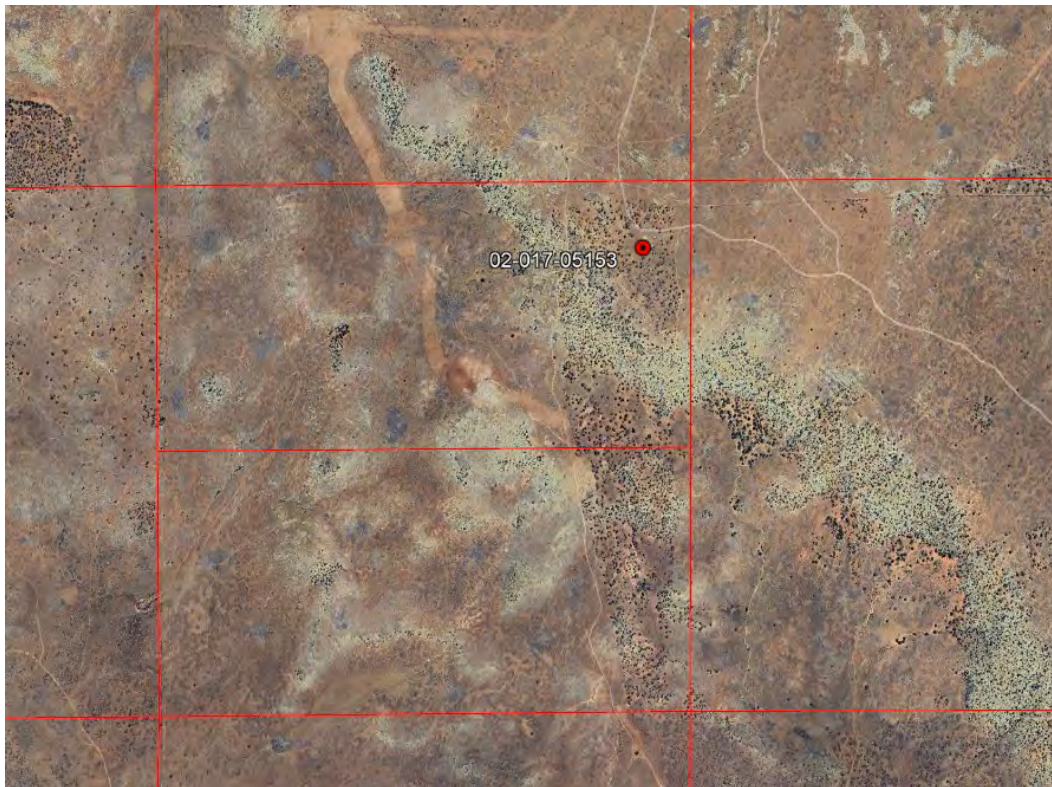


Figure 1 – API Well 02-017-05153 Well Location
(Image Credit: Google Earth with Navajo County Parcel Overlay)

The Union Oil Company of California and Continental Oil Company of New Mexico are jointly identified in Arizona Oil & Gas Conservation Commission (AZOGCC) drilling records as the well operator(s), under Permit Number AZOGCC:09-05. The spud date for API Well 02-017-05153 is reportedly September 19, 1943, and it was completed on December 31, 1943. The drilling record paperwork indicates the well was drilled to 3,850 feet below ground surface (bgs). No formal plug and abandon (P&A) forms were identified during a desktop records review.

2.0 ABANDONMENT ACTIVITIES

2.1 Abandonment Application

Tetra Tech prepared a well abandonment application (Form 9; **Appendix A**) and submitted it to the AZOGCC for approval. This application was presented in an AZOGCC meeting on December 20, 2024, and approved by the AZOGCC commissioners at the meeting.

2.2 Abandonment Procedures

JA Drake Well Servicing Company (Drake) was contracted to abandon the well. Tetra Tech supervised on site operations and kept a daily log (Tetra Tech Daily Log, **Appendix B**).

Upon arrival to location, on January 10, 2025, Drake rigged up all equipment and a welder then cut off the casing cap and welded on a casing flange to be able to rig up blowout prevention equipment. After safety checks and meeting, tubing was run into the well and run to 948 feet bgs. Based on the well records, a cement plug was expected to be between 750 feet bgs and 850 feet bgs but was not found. Drake pumped this plug from 850 feet bgs to 740 feet bgs and waited on cement overnight. This plug was 60 sacks of cement.

The next morning, January 11, Drake tripped tubing into the well and tagged cement at 870 feet bgs. Drake pumped the plug again from 870 feet bgs to 740 feet bgs (71 sacks). After waiting on cement for four hours, the plug was tagged at 737 feet bgs. The well was circulated and Drake attempted to test the casing, but it would not hold pressure. Wireline was then rigged up on the well and a cement bond log (CBL) was run. The CBL can be seen as **Appendix C** and showed good cement from 726 feet bgs to surface.

On January 12, Drake pumped the planned plug from 737 feet bgs to surface. This plug was 438 sacks and when attempting to pull tubing, the tubing was stuck. The tubing was backed off and Drake was able to pull eleven (11) joints from the well while leaving twelve (12) joints in the hole. The wellhead was cut off at surface and the well marker was welded in place. The cement was found to be at 48 feet bgs and was topped off with 34 sacks to bring cement to surface. A total of 569 sacks of cement were used to plug well 02-017-05153.

Drake completed daily drilling reports as shown in **Appendix D**. Final abandonment activities included placing a well marker, with pertinent well information at the abandoned well location. The final plugging record (Form 10, **Appendix E**) is attached for AZOGCC approval. Drake's Plug and Abandonment End of Well Report is attached as **Appendix F**. Tetra Tech's photographs documenting the abandonment procedures are included in **Appendix G**.

APPLICATION TO PLUG AND ABANDON

FIELD Holbrook

OPERATOR Union and Continental Oil (now orphan) ADDRESS & PHONE _____

LEASE NUMBER (Lessor's name if fee) _____ WELL NO. 02-017-05153

LOCATION NE NE Sec. 19,15N-18E

TYPE OF WELL Dry TOTAL DEPTH 3,850'
(Oil, Gas, or Dry)

ALLOWABLE (If Assigned) _____

LAST PRODUCTION TEST OIL _____ (Bbls.) WATER _____ (Bbls.)

GAS _____ (MCF) DATE OF TEST _____

PRODUCING HORIZON _____ PRODUCING FROM _____ TO _____

1. COMPLETE CASING RECORD:

10-3/4" @ 747'

Well has existing plug from 750'-850' with steel cap on casing at surface

2. FULL DETAILS OF PROPOSED PLAN OF WORK:

Tag existing plug at 750', test casing
Plug: pump from surface-750' to cover Coconino

- Post abandonment procedures will include:
- A marker as outlined in AAC R12-7-127 F
 - Restoration as outlined in AAC R12-7-127 G
 - 48 hour notification as outlined in AAC R12-7-127 H
 - Filing of a plugging record within 15 days as outline in AAC R12-7-127 I

DATE COMMENCING OPERATIONS Jan 10, 2024

NAME OF PERSON DOING WORK Drake Energy Services ADDRESS 607 W Pinon St, Farmington, NM 87401



Signature
Petroleum Engineer

Title
4650 E Cotton Center Blvd, Suite 110, Phoenix, AZ 85040

Address
12/17/2024

Date

Mail one copy of completed form to:
Oil and Gas Program Administrator
Arizona Department of Environmental Quality
1110 W. Washington Street
Phoenix, AZ 85007
email **one** copy to: ogcc@azdeq.gov

Date Approved December 20, 2024
STATE OF ARIZONA
OIL & GAS CONSERVATION COMMISSION
Signed by Jamanta Roberts
By _____
864294D0822E47B

STATE OF ARIZONA
OIL & GAS CONSERVATION COMMISSION
Application to Plug and Abandon
File two copies: one by mail, one electronically
Form No. 9

Permit No. AZOGCC:09-05



**10-3/4" Casing
Cement Bond Log**

Company	Union Continental	Country	USA
Well	Aztec #001		
Field	N/A		
County	Navajo		
State	Arizona		
Location:	330' FNL & 330' FEL		API #: 02-017-05153
Permanent Datum	SEC 19 TWP 15N RGE 19E	Ground Level	Elevation N/A
Log Measured From		Ground Level	K.B. N/A
Drilling Measured From		Ground Level	D.F. N/A
			G.L. N/A

Date	01/11/25
Run Number	1
Depth Driller	737'
Depth Logger	730'
Bottom Logged Interval	730'
Top Log Interval	Surface
Open Hole Size	N/A
Type Fluid	Water
Density / Viscosity	N/A
Max. Recorded Temp.	N/A
Estimated Cement Top	See Log
Time Well Ready	2:30 PM
Time Logger on Bottom	4:00 PM
Equipment Number	500
Location	Farmingington, N.M.
Recorded By	C. Thomason
Witnessed By	C. Gutierrez

	Borehole Record				Tubing Record			
	Bit	From	To	Size	Weight	From	To	
Casing Record								
Surface String								
Prot. String								
Production String								
Liner								

<<< Fold Here >>>

All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs, damages, or expenses incurred or sustained by anyone resulting from any interpretation made by any of our officers, agents or employees. These interpretations are also subject to our general terms and conditions set out in our current Price Schedule.

Comments

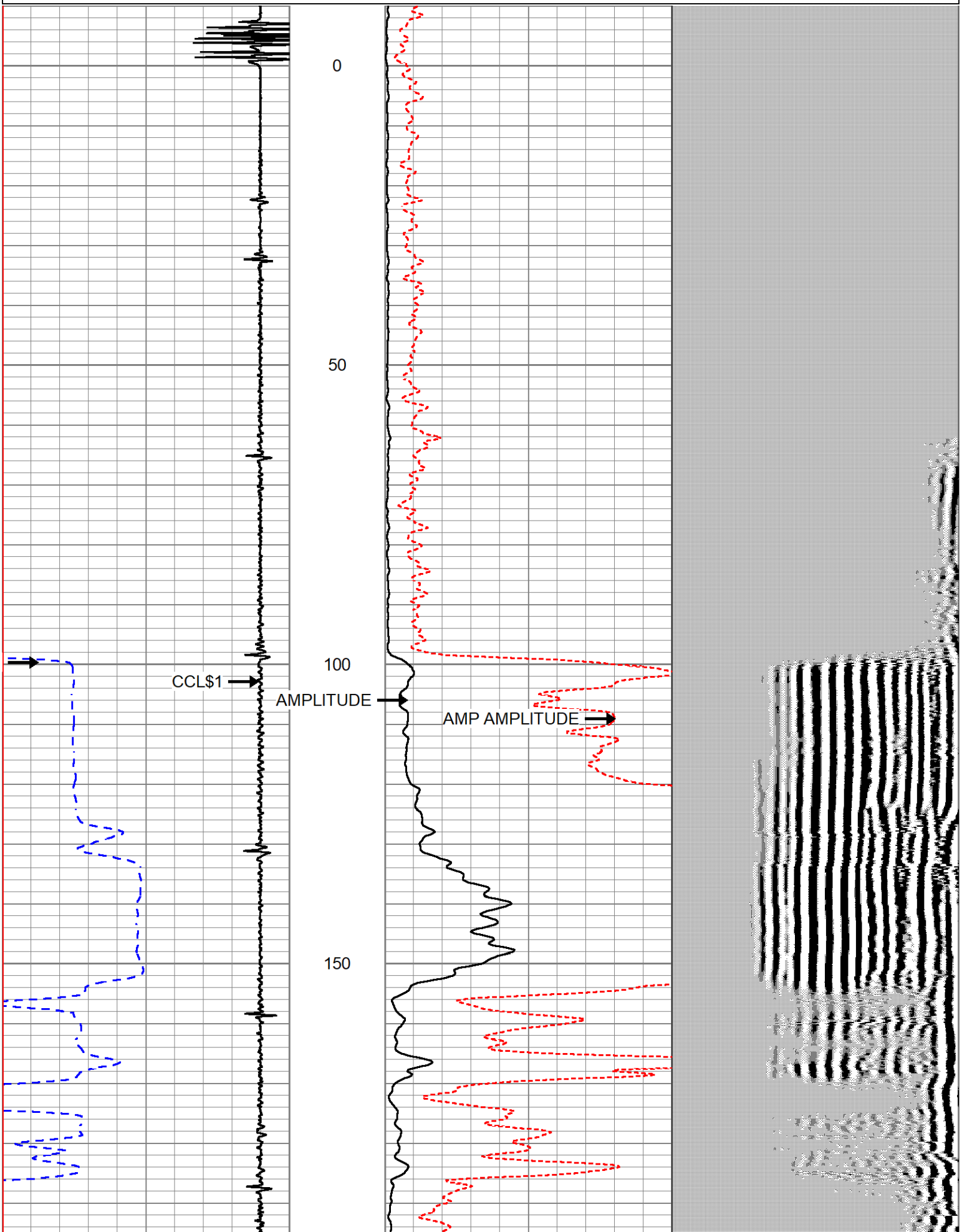
10-3/4" Casing Free Pipe = 48 MV

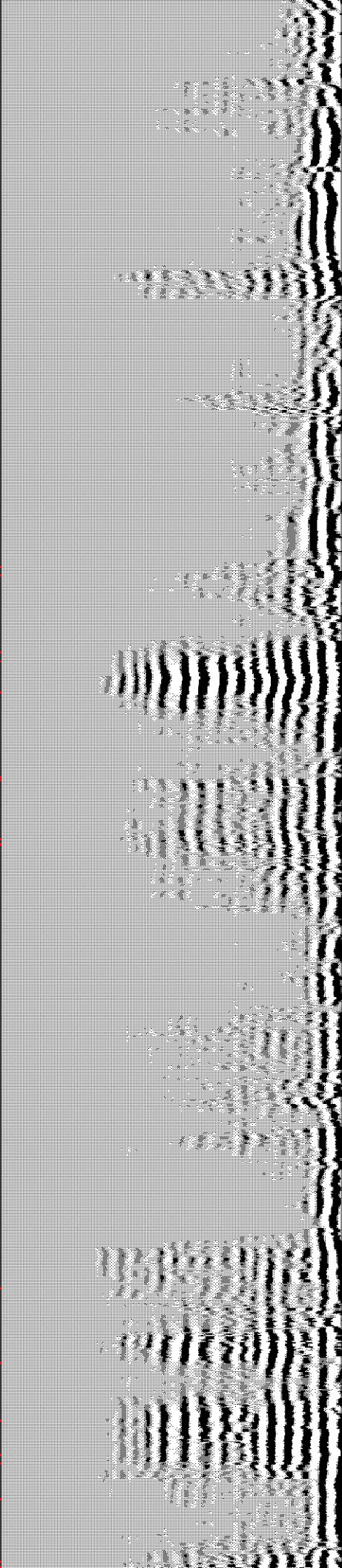
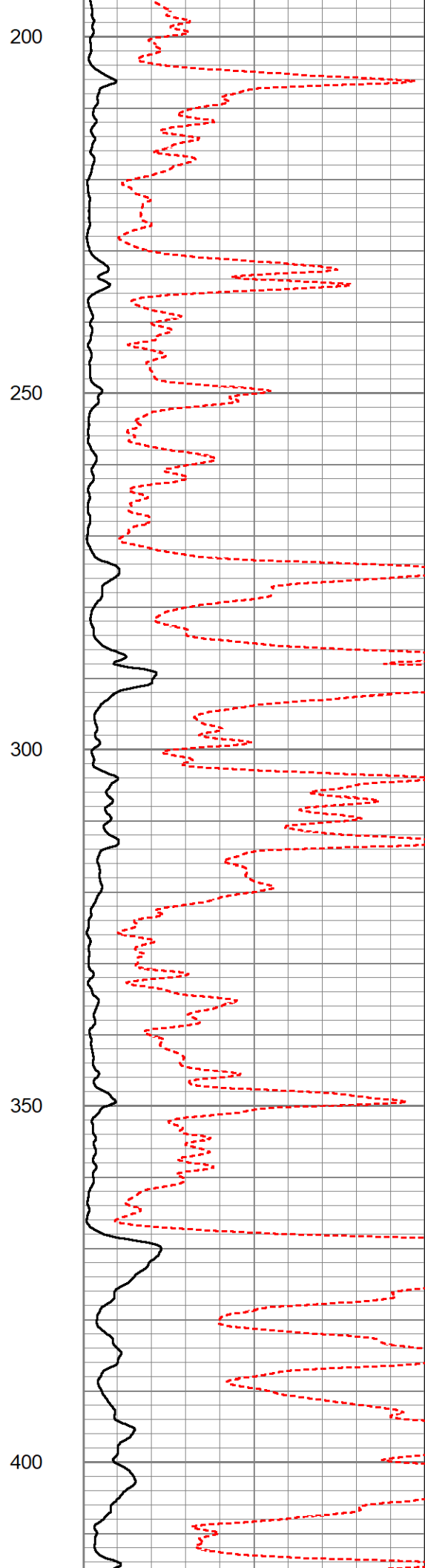
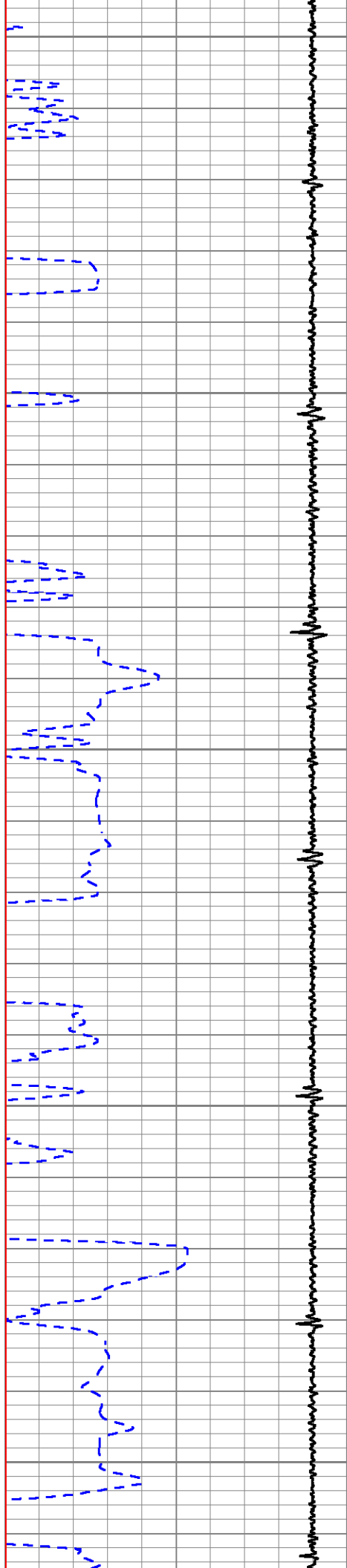
Database File aztec1.db
 Dataset Pathname pass6.2
 Presentation Format codyprobe
 Dataset Creation Sat Jan 11 16:32:15 2025
 Charted by Depth in Feet scaled 1:240

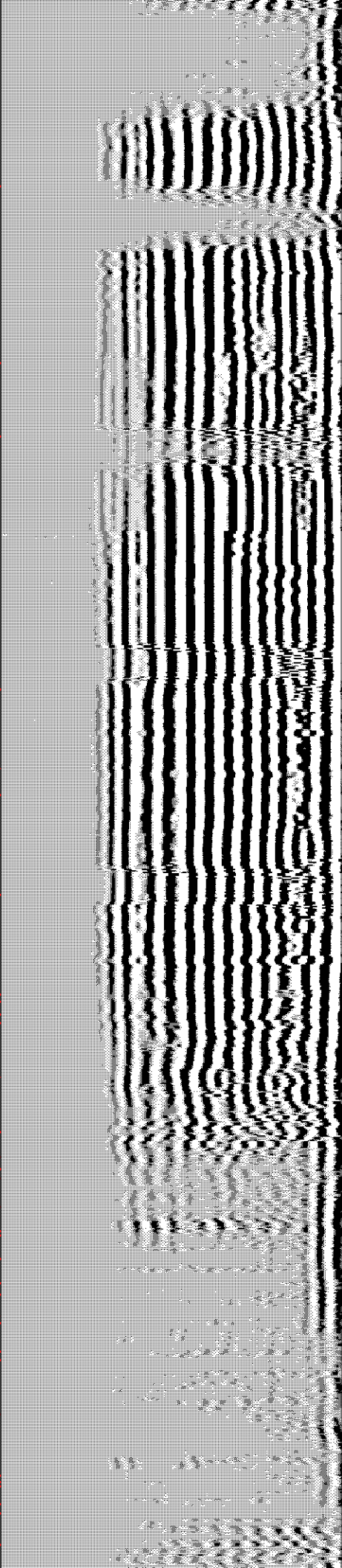
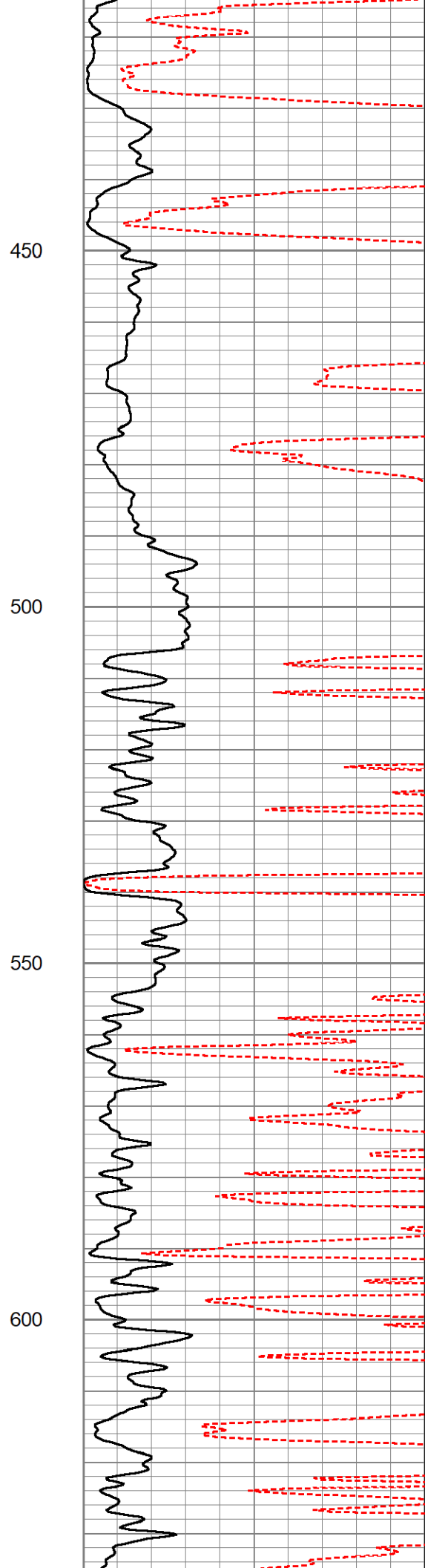
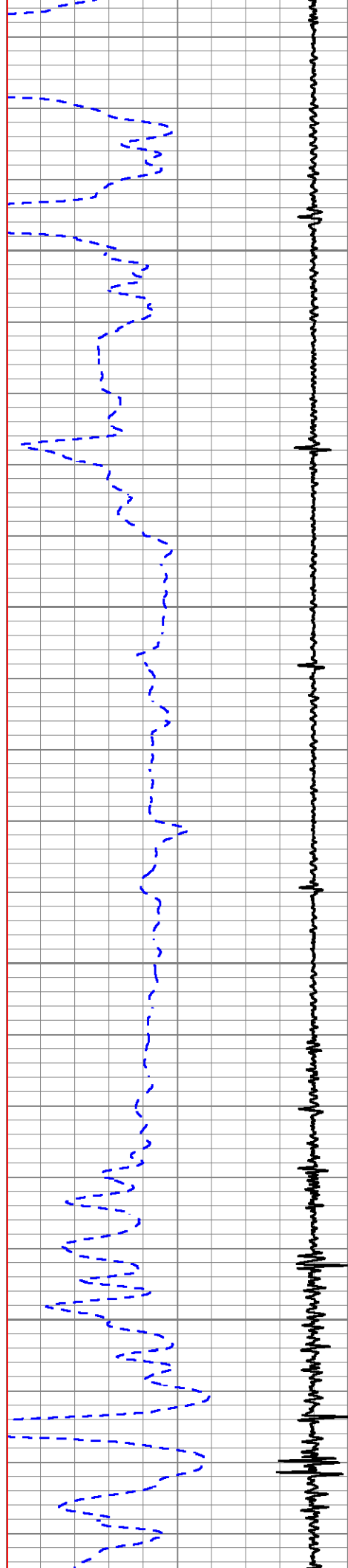
475	TRAVEL TIME (usec)	275
9	CCL\$1	-1
0	Gamma Ray (GAPI)	200

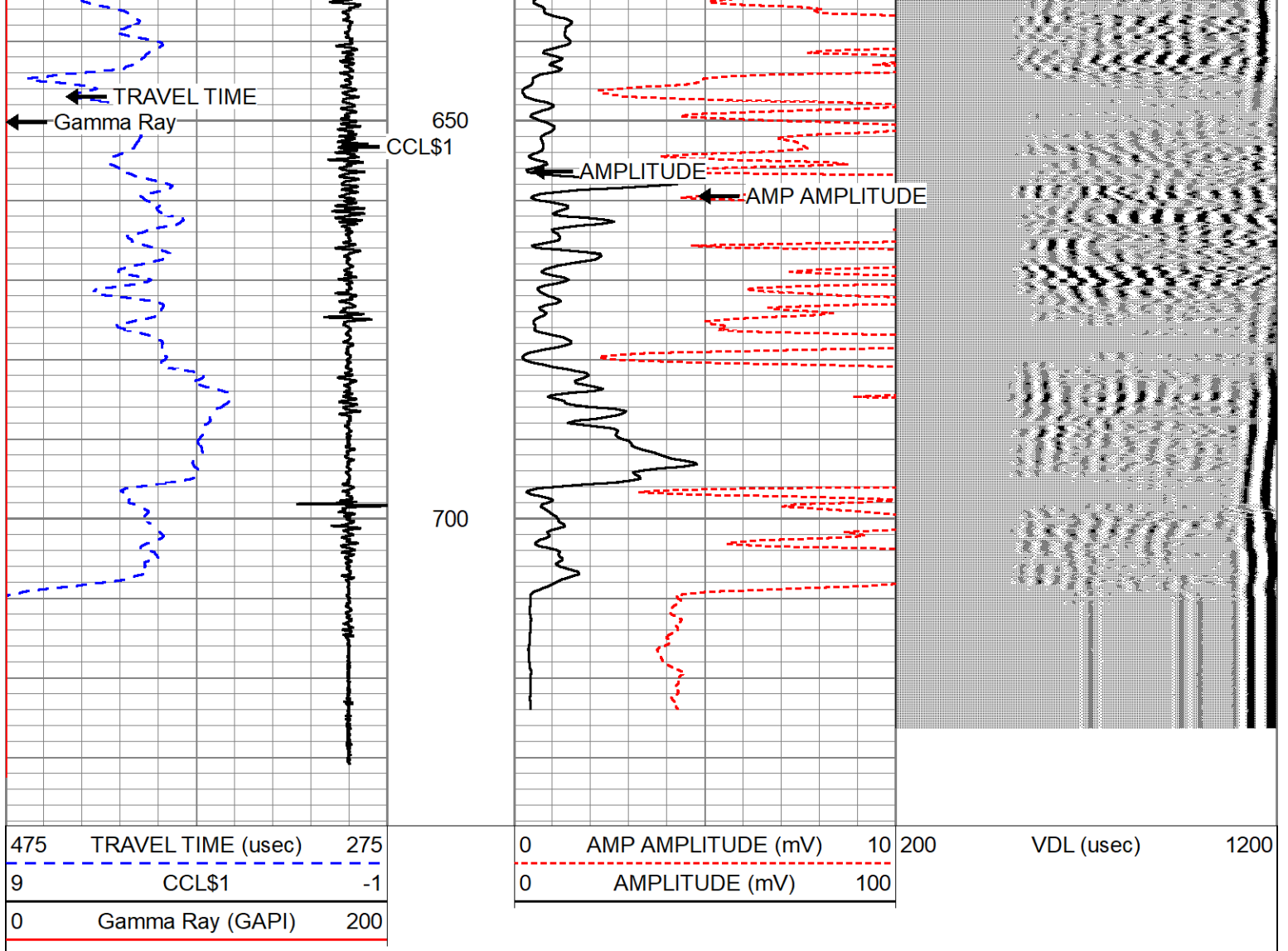
0	AMP AMPLITUDE (mV)	10	200
0	AMPLITUDE (mV)	100	

VDL (usec) 1200









Calibration Report

Database File aztec1.db
 Dataset Pathname pass6.2
 Dataset Creation Sat Jan 11 16:32:15 2025

Gamma Ray Calibration Report

Serial Number: GR170-00CT_base
 Tool Model: GR170-00CT
 Performed: (Not Performed)

Calibrator Value: 1.0 GAPI

Background Reading: 0.0 cps
 Calibrator Reading: 1.0 cps

Sensitivity: 1.0000 GAPI/cps

Segmented Cement Bond Log Calibration Report

Serial Number: CB170-1000C_base
 Tool Model: CB170-1000C

Calibration Casing Diameter: 10.750 in
 Calibration Depth: 20.120 ft

Master Calibration, performed Sat Jan 11 15:41:53 2025:

	Raw (v)		Calibrated (mv)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
3'	0.010	0.779	0.650	70.000	90.217	-0.279
CAL						
5'	0.009	0.024	0.650	47.965	3344.330	-30.826
SUM						
S1						
S2						
S3						
S4						
S5						
S6						
S7						
S8						

Internal Reference Calibration, performed (Not Performed):


	Raw (v)		Calibrated (v)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
CAL						

Air Zero Calibration, performed (Not Performed):

	Raw (v)		Calibrated (v)		Results	
	Zero		Zero		Offset	
3'	0.000		0.000		0.000	
5'	0.000		0.000		0.000	
SUM						
S1						
S2						
S3						
S4						
S5						
S6						
S7						
S8						

Inclinometer Calibration Report

	Performed:	(Not Performed)		Low Ref.	High Ref.	
		Low Read.	High Read.			
X Accelerometer		0.00	1.00	0.00	1.00	gee
Y Accelerometer		0.00	1.00	0.00	1.00	gee
Z Accelerometer		0.00	1.00	0.00	1.00	gee

Sensor	Offset (ft)	Schematic	Description	Length (ft)	O.D. (in)	Weight (lb)
ErrCt	21.50		CENT-BC170-0000 S... 4.3215	3.13	1.70	18.00

CBT_HV	18.39		Probe 1.70" Bowspring Centralizer			
WVF3FT	13.01		CBTacc-CB170-1000C (CB170-1000C_base) Probe 1.70" Corrosion CBT with Accelerometers	9.62	1.70	55.00
WVF5FT	12.01					
CBT_ACCZ	8.76					
CBT_ACCY	8.76					
CBT_ACCX	8.76					
GCT_HV	8.76					
CCL\$2	7.65					
CCL\$1	7.65					
GCT_Temp	6.89		GC-GR170-00CT (GR170-00CT_base) Probe GCT170-00CT w/ Temp	5.30	1.69	35.00
GR	4.01		CENT-BC170-0000 Probe 1.70" Bowspring Centralizer	3.13	1.70	18.00
			Plug-FA108-0000 1.38" Bull Plug	0.33	1.38	1.00

Dataset: aztec1.db: field/well/run1/pass6.2
 Total length: 21.50 ft
 Total weight: 127.00 lb
 O.D.: 1.70 in

Drake

WELL SERVICE INC.



PO Box 538 Farmington, NM 87499 505.327.7301

Company: Union Continental
 Well Name: Aztec #001
 API #: 02-017-05153
 Date: 1/10/25
 Rig: 31

WORK SUMMARY

Arrived on location. Completed pre trip inspection on unit and equipment. Moved unit and equipment to location. Held safety meeting. Completed spiral gas check. Checked well pressures. Prepped road and location using backhoe. R/U welder. Cutoff plate. Weld on WH. R/D welder. Spot in equipment and unit. R/U unit. NU BOP, R/U floor and equipment. Prepped and tallied 2-3/8" work string. P/U tubing to 948'. Did not tag existing plug at 750'. L/D 3 joints. R/U cementing services. Pumped cement from 850' to 740'. R/D cementers. L/D 5 joints and TOO. WOC overnight. Shut in and secured well.

PLUG SUMMARY

<u>Plug No</u>		<u>Plug Depth</u>		<u>Sacks of Cement Used</u>
<i>Plug 1</i>	850'	To	740'	60 sx
<i>Plug 2</i>		To		
<i>Plug 2</i>		To		
<i>Plug 2</i>		To		
<i>Plug 2</i>		To		
<i>Plug 2</i>		To		
<i>Plug 7</i>		To		
<i>Plug 8</i>		To		
<i>Plug 9</i>		To		

BRIDGE PLUG/CEMENT RETAINER SUMMARY

Depth Set

WELL PRESSURES

Tubing _____ 0 psi
 Casing _____ 0 psi
 Bradenhead _____ 0 psi



PO Box 538 Farmington, NM 87499 505.327.7301

Company: Union Continental
 Well Name: Aztec #001
 API #: 02-017-05153
 Date: 1/11/25
 Rig: 31

WORK SUMMARY

Arrived on location. Held safety meeting. Completed spiral gas check. Checked well pressures. TIH and tagged plug #1 at 870'. R/U cementing services. Continued pumping plug #1 from 870' to 740'. R/D cementers. L/D 4 joints and TOO. WOC 4 hours. TIH and tagged plug #1 at 737'. R/U cementing services. Circulated hole with 81 bbls, pumped 85 total. Attempted to pressure teste casing with no luck, had a surface leak. R/D cementers. TOO. R/U wireline services. Logged well. R/D wireline. Shut in and secured well.

PLUG SUMMARY

<u>Plug No</u>	<u>Plug Depth</u>	<u>Sacks of Cement Used</u>
Plug 1	850' To 870'	60 sx
Plug 1	870' To 737'	71 sx (Stage 2)
Plug 2		
Plug 2		
Plug 2		
Plug 2		
Plug 7		
Plug 8		
Plug 9		

BRIDGE PLUG/CEMENT RETAINER SUMMARY

Depth Set

WELL PRESSURES

Tubing _____ 0 psi
 Casing _____ 0 psi
 Bradenhead _____ 0 psi



PO Box 538 Farmington, NM 87499 505.327.7301

Company: Union Continental
 Well Name: Aztec #001
 API #: 02-017-05153
 Date: 1/12/25
 Rig: 31

WORK SUMMARY

Arrived on location. Held safety meeting. Completed spiral gas check. Checked well pressures. TIH and tagged plug #1 at 737'. R/U cementing services. Continued pumping plug #1 from 737' to surface. R/D cementers. Attempted to L/D tubing but was unable to, tubing was stuck. Worked stuck tubing with no luck. Backed off tubing. L/D 11 joints left 12 joints in hole. WOC 4 hours. R/D floor and equipment. ND BOP. R/U welder. Performed WH cutoff. Welded marker in place. R/D welder. Cement was 48' low. R/U cementing services. Pumped cement from 48' to surface using 1" poly pipe. R/D cementers. R/D unit and equipment. Back filled earth pits and around marker using backhoe. Moved some equipment to the next location.

PLUG SUMMARY

<u>Plug No</u>		<u>Plug Depth</u>		<u>Sacks of Cement Used</u>
Plug 1	<u>850'</u>	To	<u>870'</u>	<u>60 sx</u>
Plug 1	<u>870'</u>	To	<u>737'</u>	<u>71 sx (Stage 2)</u>
Plug 1	<u>737'</u>	To	<u>Surface</u>	<u>438 sx (Stage 3) (34 sx for top off)</u>
Plug 2	<u> </u>	To	<u> </u>	<u> </u>
Plug 2	<u> </u>	To	<u> </u>	<u> </u>
Plug 2	<u> </u>	To	<u> </u>	<u> </u>
Plug 7	<u> </u>	To	<u> </u>	<u> </u>
Plug 8	<u> </u>	To	<u> </u>	<u> </u>
Plug 9	<u> </u>	To	<u> </u>	<u> </u>

BRIDGE PLUG/CEMENT RETAINER SUMMARY

Depth Set

WELL PRESSURES

Tubing 0 psi
 Casing 0 psi
 Bradenhead 0 psi

Drake

WELL SERVICE INC.



PO Box 538 Farmington, NM 87499 505.327.7301

Company: Union Continental
 Well Name: Aztec #001
 API #: 02-017-05153
 Date: 1/13/25
 Rig: 31

WORK SUMMARY

Arrived on location. Held safety meeting. Loaded matting board, cross beam and backhoe on trailer. Completed pre trip inspection on unit and equipment. Drove unit and equipment to Snowflake. Traveled to other location. Completed pre trip inspection on equipment. Drove equipment to snowflake.

PLUG SUMMARY

<u>Plug No</u>	<u>Plug Depth</u>	<u>Sacks of Cement Used</u>
Plug 1 850'	To 870'	60 sx
Plug 1 870'	To 737'	71 sx (Stage 2)
Plug 1 737'	To Surface	438 sx (Stage 3) (34 sx for top off)
Plug 2	To	
Plug 2	To	
Plug 2	To	
Plug 7	To	
Plug 8	To	
Plug 9	To	

BRIDGE PLUG/CEMENT RETAINER SUMMARY

Depth Set

WELL PRESSURES

Tubing _____ 0 psi
 Casing _____ 0 psi
 Bradenhead _____ 0 psi

Drake

WELL SERVICE INC.



PO Box 538 Farmington, NM 87499 505.327.7301

Company: Union Continental
 Well Name: Aztec #001
 API #: 02-017-05153
 Date: 1/14/25
 Rig: 31

WORK SUMMARY

Performed pre-trip inspection on unit and equipment. Found a flat tire on the accumulator trailer. Fixed tire. Drove unit and equipment to Zuni. Experienced issues with doghouse trailer. Fixed leaf spring on trailer. Drove unit and equipment to Farmington yard.

PLUG SUMMARY

<u>Plug No</u>	<u>Plug Depth</u>	<u>Sacks of Cement Used</u>
Plug 1	850' To 870'	60 sx
Plug 1	870' To 737'	71 sx (Stage 2)
Plug 1	737' To Surface	438 sx (Stage 3) (34 sx for top off)
Plug 2	To	
Plug 2	To	
Plug 2	To	
Plug 7	To	
Plug 8	To	
Plug 9	To	

BRIDGE PLUG/CEMENT RETAINER SUMMARY

Depth Set

WELL PRESSURES

Tubing _____ 0 psi
 Casing _____ 0 psi
 Bradenhead _____ 0 psi

PLUGGING RECORD

Operator Orphan - plugged by TetraTech / ADEQ		Address & Phone number	
Federal, State, or Indian Lease No. or lessor's name if fee lease Aztec Land & Cattle Company Fee		Well No. 1	Field & Reservoir Holbrook - Devonian
Location of Well 23 miles Southwest of Holbrook, AZ		Sec - Twp - Rge 19 - 15N - 19E	
		County Navajo	
Application to drill this well was filed in name of Union and Continental Oil	Has this well ever produced oil or gas?	Character of well at completion (initial production) Oil (bbls/day) Gas (MCF/day) Dry?	
Date plugged 01/12/2025	Total depth 3,850'	Amount well producing when plugged: Oil (bbls/day) Gas (MCF/day) Water (bbls/day) N/A N/A N/A	
Name of each formation containing oil or gas. Indicate which formation open to wellbore at time of plugging	Fluid content of each formation	Depth interval of each formation	Size, kind & depth of plugs used. Indicate zones squeeze cemented, giving amount of cement
Dry hole			multiple plugs from 850'-surface - 569 sx cmt

CASING RECORD

Size pipe	Put in well (ft.)	Pulled out (ft.)	Left in well (ft.)	Give depth and method of parting casing (shot, etc.)	Packers and shoes
10.75"	747'	0	747'		
2.375"	690'	363'	327'	back off	

Was well filled with heavy drilling mud, according to regulations? Indicate deepest formation containing fresh water
Coconino - base at 560'

NAME AND ADDRESSES OF ADJACENT LEASE OPERATORS OR OWNERS OF THE SURFACE

Name	Address	Direction from this well
Aztec Land and Cattle Company	4647 N 32nd St #240, Phoenix, AZ 85018	Surface owner

In addition to other information required on this form, if this well was plugged back for use as a fresh water well, give all pertinent details of plugging operations to base of fresh water sand, perforated interval to fresh water sand, name and address of surface owner, and attach letter from surface owner authorizing completion of this well as a water well and agreeing to assume full liability for any subsequent plugging which might be required.

Use reverse side for additional detail

CERTIFICATE: I, the undersigned, under the penalty of perjury, state that I am the project manager of the contractor Tetra Tech (company) and that I am authorized by said company to make this report; and that this report was prepared under my supervision and direction and that the facts stated therein are true, correct and complete to the best of my knowledge.

01/30/2025

Date



Signature

Permit No. 09-05

Mail one copy of completed form to:
Oil and Gas Program Administrator
Arizona Department of Environmental Quality
1110 W. Washington Street
Phoenix, AZ 85007

email **one** copy to: ogcc@azdeq.gov

STATE OF ARIZONA
OIL & GAS CONSERVATION COMMISSION
Plugging Record

File two copies: one by mail, one electronically

Form No. 10

Union Continental

Plug And Abandonment End Of Well Report

Aztec #001

330' FNL & 330' FEL, Section 19, 15N, 19E

Navajo County, AZ / API 02-017-05153

Work Summary:

- 1/9/25** Made P&A operations notifications at 9:00 AM MST.
- 1/10/25** Arrived on location. Completed pre trip inspection on unit and equipment. Moved unit and equipment to location. Held safety meeting. Completed spiral gas check. Checked well pressures. Prepped road and location using backhoe. R/U welder. Cutoff plate. Weld on WH. R/D welder. Spot in equipment and unit. R/U unit. NU BOP, R/U floor and equipment. Prepped and tallied 2-3/8" work string. P/U tubing to 948'. Did not tag existing plug at 750'. L/D 3 joints. R/U cementing services. Pumped cement from 850' to 740'. R/D cementers. L/D 5 joints and TOO. WOC overnight. Shut in and secured well.
- 1/11/25** Arrived on location. Held safety meeting. Completed spiral gas check. Checked well pressures. TIH and tagged plug #1 at 870'. R/U cementing services. Continued pumping plug #1 from 870' to 740'. R/D cementers. L/D 4 joints and TOO. WOC 4 hours. TIH and tagged plug #1 at 737'. R/U cementing services. Circulated hole with 81 bbls, pumped 85 total. Attempted to pressure teste casing with no luck, had a surface leak. R/D cementers. TOO. R/U wireline services. Logged well. R/D wireline. Shut in and secured well.
- 1/12/25** Arrived on location. Held safety meeting. Completed spiral gas check. Checked well pressures. TIH and tagged plug #1 at 737'. R/U cementing services. Continued pumping plug #1 from 737' to surface. R/D cementers. Attempted to L/D tubing but was unable to, tubing was stuck. Worked stuck tubing with no luck. Backed off tubing. L/D 11 joints left 12 joints in hole. WOC 4 hours. R/D floor and equipment. ND BOP. R/U welder. Performed WH cutoff.

Welded marker in place. R/D welder. Cement was 48' low. R/U cementing services. Pumped cement from 48' to surface using 1" poly pipe. R/D cementers. R/D unit and equipment. Back filled earth pits and around marker using backhoe. Moved some equipment to the next location.

Plug Summary:

Plug #1: 850' - Surface, 569 Sacks Class G Cement

R/U cementing services. Pumped cement from 850' to 740'. R/D cementers. L/D 5 joints and TOO. WOC overnight. TIH and tagged plug #1 at 870'. R/U cementing services. Continued pumping plug #1 from 870' to 740'. R/D cementers. L/D 4 joints and TOO. WOC 4 hours. TIH and tagged plug #1 at 737'. R/U cementing services. Continued pumping plug #1 from 737' to surface. R/D cementers. Attempted to L/D tubing but was unable to, tubing was stuck. Worked stuck tubing with no luck. Backed off tubing. L/D 11 joints left 12 joints in hole. WOC 4 hours. R/D floor and equipment. ND BOP. R/U welder. Performed WH cutoff. Welded marker in place. R/D welder. Cement was 48' low. R/U cementing services. Pumped cement from 48' to surface using 1" poly pipe.

Completed Wellbore Diagram

Union Continental
Aztec #001
API: 02-017-05153
Navajo County, Arizona

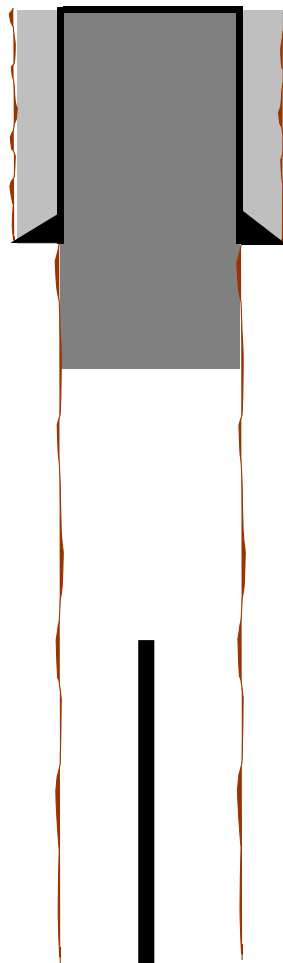
Surface Casing
10.75" 40.5# to 747'
OH: ≈12.75"

Formations
Supui - 750 feet
Penn - 3228 feet
Red wall - 3772 feet

Plug 1
850 feet - Surface
850 foot plug
569 Sacks of Class G Cement

Open Hole
Drilled to 3850'
Size unknown. Calculations
assumed 7"

Perforations
N/A

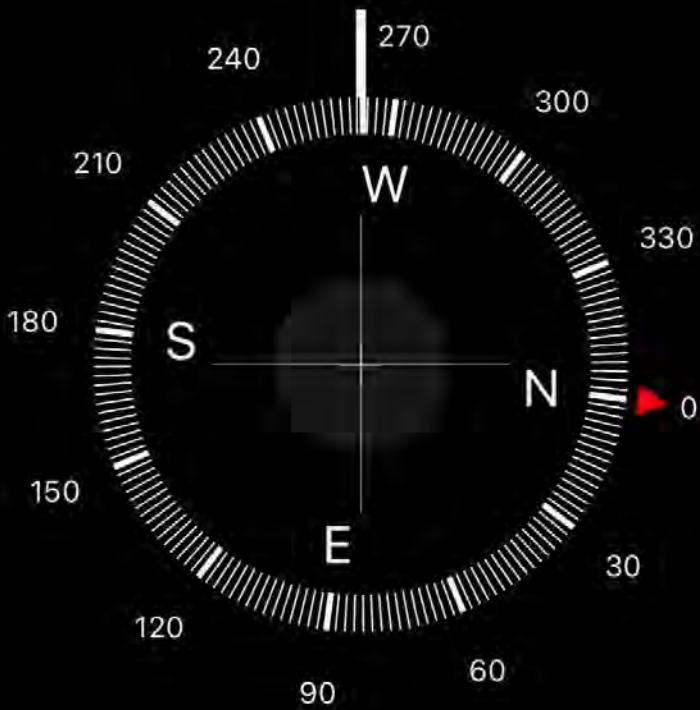


12 Joints of tubing stuck/left
in hole

1600' of Drill Pipe
Left in Hole

8:22

LTE



262° W

34°41'4" N 110°28'6" W

AZ

6120 ft Elevation

Figure 1: GPS



Figure 2: Marker

Number: 1	Date: January 10, 2025
------------------	-------------------------------

Description: Welding flange to casing.



Number: 2	Date: January 11, 2025
------------------	-------------------------------

Description: CBL logging tool.



Number: 3	Date: January 12, 2025
Description: Well marker at surface.	



Agenda Item 3.c.2

API# 02-017-05021

PLUGGING RECORD

Operator Orphan - plugged by TetraTech / ADEQ		Address & Phone number	
Federal, State, or Indian Lease No. or lessor's name if fee lease Aztec Land & Cattle Company Fee		Well No. 1	Field & Reservoir Holbrook - Devonian
Location of Well 19 miles Southwest of Holbrook, AZ		Sec - Twp - Rge 34 - 15N - 19E	
		County Navajo	
Application to drill this well was filed in name of Union and Continental	Has this well ever produced oil or gas?	Character of well at completion (initial production) Oil (bbls/day) Gas (MCF/day) Dry?	
Date plugged 01/09/2025	Total depth 3,609'	Amount well producing when plugged: Oil (bbls/day) Gas (MCF/day) Water (bbls/day) N/A N/A N/A	
Name of each formation containing oil or gas. Indicate which formation open to wellbore at time of plugging	Fluid content of each formation	Depth interval of each formation	Size, kind & depth of plugs used. Indicate zones squeeze cemented, giving amount of cement
Dry hole			multiple plugs from 510'-surface - 228 sx cmt

CASING RECORD

Size pipe	Put in well (ft.)	Pulled out (ft.)	Left in well (ft.)	Give depth and method of parting casing (shot, etc.)	Packers and shoes
10.75"	336'	0	336'		

Was well filled with heavy drilling mud, according to regulations?

Indicate deepest formation containing fresh water
Coconino - base at 560'

NAME AND ADDRESSES OF ADJACENT LEASE OPERATORS OR OWNERS OF THE SURFACE

Name	Address	Direction from this well
Aztec Land and Cattle Company	4647 N 32nd St #240, Phoenix, AZ 85018	Surface owner

In addition to other information required on this form, if this well was plugged back for use as a fresh water well, give all pertinent details of plugging operations to base of fresh water sand, perforated interval to fresh water sand, name and address of surface owner, and attach letter from surface owner authorizing completion of this well as a water well and agreeing to assume full liability for any subsequent plugging which might be required.

Use reverse side for additional detail

CERTIFICATE: I, the undersigned, under the penalty of perjury, state that I am the project manager of the contractor Tetra Tech (company) and that I am authorized by said company to make this report; and that this report was prepared under my supervision and direction and that the facts stated therein are true, correct and complete to the best of my knowledge.

01/23/2025

Date



Signature

Mail one copy of completed form to:

Oil and Gas Program Administrator
Arizona Department of Environmental Quality
1110 W. Washington Street
Phoenix, AZ 85007

email **one** copy to: ogcc@azdeq.gov

Permit No. 09-08

STATE OF ARIZONA

OIL & GAS CONSERVATION COMMISSION

Plugging Record

File two copies: one by mail, one electronically

Form No. 10

Post Plugging Report

API Well 02-017-05021

Union and Continental Oil 1
New Mexico-Arizona Land



Project: 117-1303183B
Task: 3.02-017-05021

January 24, 2025

PREPARED FOR

Arizona Department of Environmental Quality
Oil and Gas Program
1110 W Washington Street
Phoenix, AZ 85022

PRESENTED BY

Tetra Tech, Inc.
4650 East Cotton Center Blvd.
Suite 110
Phoenix, AZ 85040



TETRA TECH

TABLE OF CONTENTS

1.0 Introduction	1
2.0 Abandonment Activities.....	2
2.1 Abandonment Application	2
2.2 Abandonment Procedures	2

FIGURES

Figure 1 – API Well 02-017-05021 Well Location	1
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APPENDICES

Appendix A – Form 9: Application to Plug and Abandon

Appendix B – Tetra Tech Daily Log

Appendix C – Drake Daily Reports

Appendix D – Form 10: Plugging Record

Appendix E – Drake’s Plug and Abandonment End of Well Report

Appendix F – Tetra Tech Photo Log

1.0 INTRODUCTION

API Well 02-017-05021 is known as the Union and Continental Oil 1 New Mexico-Arizona Land and is in Navajo County, Arizona, in the SW $\frac{1}{4}$ of the NE $\frac{1}{4}$ of Section 34, Township 15 North, Range 19 East of the Gila-Salt River Principal Meridian. This location is at the approximate mapping coordinates of Latitude 34.6517817 and Longitude -110.3147881. **Figure 1**, below, illustrates the general location of this well based upon the currently available data set.

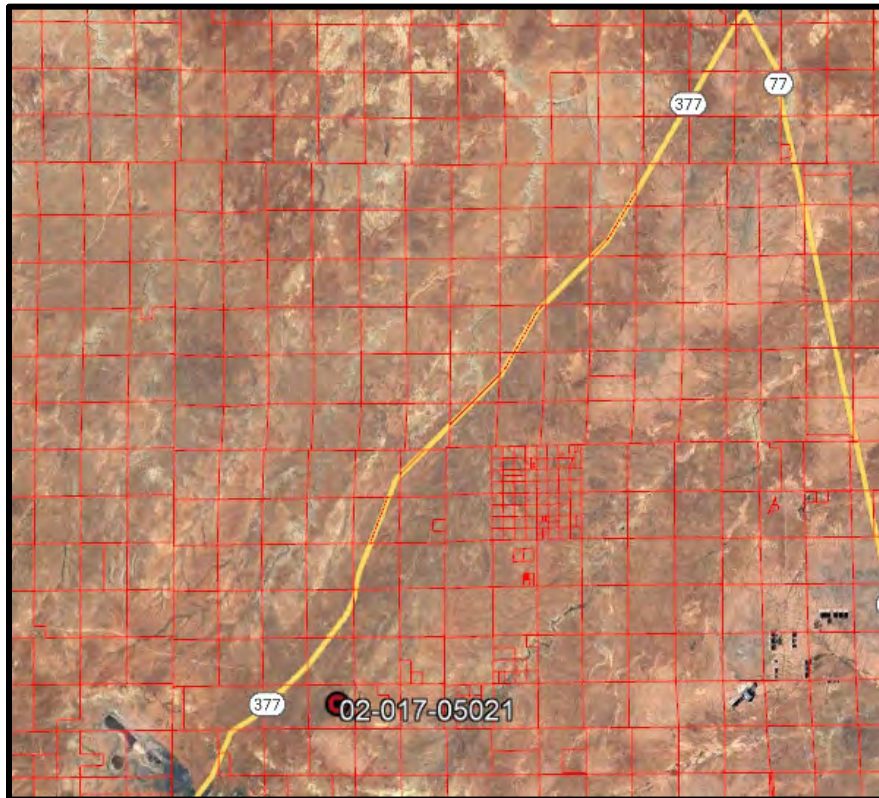


Figure 1 – API Well 02-017-05021 Well Location
(Image Credit: Google Earth with Navajo County Parcel Overlay)

The Union Oil Company of California and Continental Oil Company of New Mexico are jointly identified in Arizona Oil & Gas Conservation Commission (AZOGCC) drilling records as the well operator(s), under Permit Number AZOGCC:09-08. The spud date for API Well 02-017-05021 is reportedly January 23, 1944, and it was completed on March 17, 1944. The drilling record paperwork indicates the well was drilled to 3,609 feet below ground surface (bgs). No formal plug and abandon (P&A) forms were identified during a desktop records review.

2.0 ABANDONMENT ACTIVITIES

2.1 Abandonment Application

Tetra Tech prepared a well abandonment application (Form 9; **Appendix A**) and submitted it to the AZOGCC for approval. This application was presented in an AZOGCC meeting on December 20, 2024, and approved by the AZOGCC commissioners at the meeting.

2.2 Abandonment Procedures

JA Drake Well Servicing Company (Drake) was contracted to abandon the well. Tetra Tech supervised on site operations and kept a daily log (Tetra Tech Daily Log, **Appendix B**).

Upon arrival to location, on January 6, 2025, Drake rigged up all equipment and ran into the well to a tag depth of 260 feet bgs. Then a welder was called to cut off the casing cap and weld on a casing flange to be able to rig up blowout prevention equipment. A 6.25-inch diameter drill bit was run into the well and tagged at 231 feet bgs. Drake attempted to drill but made no hole. The tubing and bit were then pulled from the well and Drake ran back in with a 4.25-inch diameter drill bit and tagged at 231 feet bgs. Drake was then able to drill out from 231 feet bgs to 510 feet bgs. Initially had returns of large wood pieces, and then from 500 feet bgs to 510 feet bgs, returns had sand and a material that looked like cedar flakes used in lost circulation material. The rig then shut down for the day. The next morning, January 7, Drake ran in the well with the same 4.25-inch drill bit and tagged at 470 feet bgs and drilled to 510 feet bgs. At this depth, progress stopped. Tetra Tech contacted the AZOGCC for a variance to set a cement plug from 510 feet bgs. The variance was approved the following day by Samantha Roberts on January 8, 2025. Based on the approved variance, cement was pumped from 510 feet bgs to 336 feet bgs based on the volume of the casing. Total cement for this plug was 57 sacks. The well was then reverse circulated at 294 feet bgs to keep cement from coming uphole. The rig then shut down for the day to wait on cement to harden overnight.

The next morning, January 9, Drake tripped tubing into the well and tagged cement at 294 feet bgs. Tubing was tripped out of the well and laid down. Cementers were rigged up and pumped cement from 294 feet bgs to surface. A total of 158 sacks of cement were pumped for this plug. While waiting on cement to harden, the welder cut off the casing flange and welded the P&A marker onto the casing. The cement was found to be 20 feet bgs. The well was topped off with 13 sacks of cement to bring it to ground level. Drake then rigged down and moved off the well location.

Drake completed daily drilling reports as shown in **Appendix C**. Final abandonment activities included placing a well marker, with pertinent well information at the abandoned well location. The final plugging record (Form 10, **Appendix D**) is attached for AZOGCC approval. Drake's Plug and Abandonment End of Well Report is attached as **Appendix E**. Tetra Tech's photographs documenting the abandonment procedures are included in **Appendix F**.

APPLICATION TO PLUG AND ABANDON

FIELD Holbrook

OPERATOR Union and Continental Oil (now orphan) ADDRESS & PHONE _____

LEASE NUMBER (Lessor's name if fee) _____ WELL NO. 02-017-05021

LOCATION SW NE Sec. 34,15N-19E

TYPE OF WELL Dry TOTAL DEPTH 3,609'
(Oil, Gas, or Dry)

ALLOWABLE (If Assigned) _____

LAST PRODUCTION TEST OIL _____ (Bbls.) WATER _____ (Bbls.)

GAS _____ (MCF) DATE OF TEST _____

PRODUCING HORIZON _____ PRODUCING FROM _____ TO _____

1. COMPLETE CASING RECORD:

10-3/4" @ 336'

Well has existing plugs 1,800'-1,900' and 575'-650' with steel cap on casing at surface

2. FULL DETAILS OF PROPOSED PLAN OF WORK:

Tag existing plug at 575'
Set plug from 575'-495' (Coconino), water zone needs abandoned properly
Plug 2: pump from surface-495'

- Post abandonment procedures will include:
- A marker as outlined in AAC R12-7-127 F
 - Restoration as outlined in AAC R12-7-127 G
 - 48 hour notification as outlined in AAC R12-7-127 H
 - Filing of a plugging record within 15 days as outline in AAC R12-7-127 I

DATE COMMENCING OPERATIONS Jan 10, 2024

NAME OF PERSON DOING WORK Drake Energy Services ADDRESS 607 W Pinon St, Farmington, NM 87401




Signature
Petroleum Engineer

Title
4650 E Cotton Center Blvd, Suite 110, Phoenix, AZ 85040

Address
12/16/2024

Date

Mail one copy of completed form to:
Oil and Gas Program Administrator
Arizona Department of Environmental Quality
1110 W. Washington Street
Phoenix, AZ 85007
email **one** copy to: ogcc@azdeq.gov

Date Approved December 20, 2024
STATE OF ARIZONA
OIL & GAS CONSERVATION COMMISSION
Signed by: 
By _____
864294D0822F47B...

STATE OF ARIZONA
OIL & GAS CONSERVATION COMMISSION
Application to Plug and Abandon
File two copies: one by mail, one electronically
Form No. 9

Permit No. AZOGCC:09-08



PO Box 538 Farmington, NM 87499 505.327.7301

Company: Union Continental
 Well Name: Arizona #001
 API #: 02-017-05021
 Date: 1/6/25
 Rig: 31

WORK SUMMARY

Arrived on location. Completed pre trip inspection on unit and equipment. Moved unit and equipment to location. Held safety meeting. Completed spiral gas check. Checked well pressures. Prepped the wellhead and location using the backhoe. Spotted in equipment and unit. R/U unit and equipment. Set crossbeam on top of wellhead. R/U floor. Prepped and tallied 2-3/8" work string. P/U tubing. TIH and tagged at 260'. Worked string with no luck. TOO. Dirt was present on the end of the tag sub. R/D equipment and floor. Removed crossbeam. Wait on welder. Completed oil change on the unit. Shut in and secured well.

PLUG SUMMARY

<u>Plug No</u>	<u>Plug Depth</u>	<u>Sacks of Cement Used</u>
Plug 1	To _____	_____
Plug 2	To _____	_____
Plug 2	To _____	_____
Plug 2	To _____	_____
Plug 2	To _____	_____
Plug 2	To _____	_____
Plug 7	To _____	_____
Plug 8	To _____	_____
Plug 9	To _____	_____

BRIDGE PLUG/CEMENT RETAINER SUMMARY

Depth Set

WELL PRESSURES

Tubing _____ 0 psi
 Casing _____ 0 psi
 Bradenhead _____ 0 psi



PO Box 538 Farmington, NM 87499 505.327.7301

Company: Union Continental
 Well Name: Arizona #001
 API #: 02-017-05021
 Date: 1/7/25
 Rig: 31

WORK SUMMARY

Arrived on location. Held safety meeting. Completed spiral gas check. Checked well pressures. R/U welder on location. Cut and prepped casing. Welded a flange onto the casing. R/D welder. NU BOP. R/U floor and equipment. Installed 6-1/4" bit. TIH and tagged at 231'. R/U power swivel and pump. Attempted to drill but made no progress. R/D swivel and pump. TOO. L/D 6-1/4" bit. Installed 4-1/4" drill bit. TIH and tagged at 231'. R/U power swivel and pump. Drilled out from 231' to 510'. Sand and a material like cedar fiber in returns. R/D swivel and pump. TOO. Shut in and secured well.

PLUG SUMMARY

<u>Plug No</u>	<u>Plug Depth</u>	<u>Sacks of Cement Used</u>
Plug 1	To _____	_____
Plug 2	To _____	_____
Plug 2	To _____	_____
Plug 2	To _____	_____
Plug 2	To _____	_____
Plug 2	To _____	_____
Plug 7	To _____	_____
Plug 8	To _____	_____
Plug 9	To _____	_____

BRIDGE PLUG/CEMENT RETAINER SUMMARY

Depth Set

WELL PRESSURES

Tubing _____ 0 psi
 Casing _____ 0 psi
 Bradenhead _____ 0 psi

Drake

WELL SERVICE INC.



PO Box 538 Farmington, NM 87499 505.327.7301

Company: Union Continental
 Well Name: Arizona #001
 API #: 02-017-05021
 Date: 1/8/25
 Rig: 31

WORK SUMMARY

Arrived on location. Held safety meeting. Completed spiral gas check. Checked well pressures. TIH with 4-1/4" bit. Tagged at 470'. R/U power swivel and pump. Drilled out from 470' to 510', progress stopped at 510'. TOOH. L/D bit. TIH to 510'. R/U cementers. Pumped cement from 510' to 336'. R/D cementers. L/D 7 joints. Reversed circulated at 294'. TOOH with all tubing. WOC overnight. Shut in and secured well.

PLUG SUMMARY

<u>Plug No</u>		<u>Plug Depth</u>		<u>Sacks of Cement Used</u>
<i>Plug 1</i>	<u>510'</u>	<i>To</i>	<u>336'</u>	<u>57 sx</u>
<i>Plug 2</i>	<u>_____</u>	<i>To</i>	<u>_____</u>	<u>_____</u>
<i>Plug 2</i>	<u>_____</u>	<i>To</i>	<u>_____</u>	<u>_____</u>
<i>Plug 2</i>	<u>_____</u>	<i>To</i>	<u>_____</u>	<u>_____</u>
<i>Plug 2</i>	<u>_____</u>	<i>To</i>	<u>_____</u>	<u>_____</u>
<i>Plug 2</i>	<u>_____</u>	<i>To</i>	<u>_____</u>	<u>_____</u>
<i>Plug 7</i>	<u>_____</u>	<i>To</i>	<u>_____</u>	<u>_____</u>
<i>Plug 8</i>	<u>_____</u>	<i>To</i>	<u>_____</u>	<u>_____</u>
<i>Plug 9</i>	<u>_____</u>	<i>To</i>	<u>_____</u>	<u>_____</u>

BRIDGE PLUG/CEMENT RETAINER SUMMARY

Depth Set

WELL PRESSURES

Tubing 0 psi
 Casing 0 psi
 Bradenhead 0 psi



PO Box 538 Farmington, NM 87499 505.327.7301

Company: Union Continental
 Well Name: Arizona #001
 API #: 02-017-05021
 Date: 1/9/25
 Rig: 31

WORK SUMMARY

Arrived on location. Held safety meeting. Completed spiral gas check. Checked well pressures. TIH and tagged plug #1 at 294'. TOOH. R/U cementing services. Attempted to pressure test casing but was unsuccessful. Filled casing with 21 bbls of water, injected 5 bbls at 1.5 bpm and 100 psi. R/D cementers. TIH to 294'. R/U cementing services. Continued pumping plug #1 from 294' to surface. Shut in casing valve, injected 13 bbls of cement (22 sx) until cement returns were seen at surface. R/D cementers. L/D tubing. R/D floor and equipment. WOC 4 hours. R/U welder on location. Performed WH cutoff. Welded P&A marker in place per local regulations. Cement was 20' low. R/U cementing services. Topped off casing from 20' to surface with 1" poly pipe. R/D cementer. R/D unit and equipment. Shut in and secured well and equipment.

PLUG SUMMARY

<u>Plug No</u>	<u>Plug Depth</u>	<u>Sacks of Cement Used</u>
Plug 1 510'	To 294''	57 sx
Plug 1 294'	To Surface	158 sx
Plug 1 20'	To Surface	13 sx (top off)
Plug 2	To	
Plug 2	To	
Plug 2	To	
Plug 7	To	
Plug 8	To	
Plug 9	To	

BRIDGE PLUG/CEMENT RETAINER SUMMARY

Depth Set

WELL PRESSURES

Tubing _____ 0 psi
 Casing _____ 0 psi
 Bradenhead _____ 0 psi

PLUGGING RECORD

Operator Orphan - plugged by TetraTech / ADEQ		Address & Phone number	
Federal, State, or Indian Lease No. or lessor's name if fee lease Aztec Land & Cattle Company Fee		Well No. 1	Field & Reservoir Holbrook - Devonian
Location of Well 19 miles Southwest of Holbrook, AZ		Sec - Twp - Rge 34 - 15N - 19E	
		County Navajo	
Application to drill this well was filed in name of Union and Continental	Has this well ever produced oil or gas?	Character of well at completion (initial production) Oil (bbls/day) Gas (MCF/day) Dry?	
Date plugged 01/09/2025	Total depth 3,609'	Amount well producing when plugged: Oil (bbls/day) Gas (MCF/day) Water (bbls/day) N/A N/A N/A	
Name of each formation containing oil or gas. Indicate which formation open to wellbore at time of plugging	Fluid content of each formation	Depth interval of each formation	Size, kind & depth of plugs used. Indicate zones squeeze cemented, giving amount of cement
Dry hole			multiple plugs from 510'-surface - 228 sx cmt

CASING RECORD

Size pipe	Put in well (ft.)	Pulled out (ft.)	Left in well (ft.)	Give depth and method of parting casing (shot, etc.)	Packers and shoes
10.75"	336'	0	336'		

Was well filled with heavy drilling mud, according to regulations?

Indicate deepest formation containing fresh water
Coconino - base at 560'

NAME AND ADDRESSES OF ADJACENT LEASE OPERATORS OR OWNERS OF THE SURFACE

Name	Address	Direction from this well
Aztec Land and Cattle Company	4647 N 32nd St #240, Phoenix, AZ 85018	Surface owner

In addition to other information required on this form, if this well was plugged back for use as a fresh water well, give all pertinent details of plugging operations to base of fresh water sand, perforated interval to fresh water sand, name and address of surface owner, and attach letter from surface owner authorizing completion of this well as a water well and agreeing to assume full liability for any subsequent plugging which might be required.

Use reverse side for additional detail

CERTIFICATE: I, the undersigned, under the penalty of perjury, state that I am the project manager of the contractor Tetra Tech (company) and that I am authorized by said company to make this report; and that this report was prepared under my supervision and direction and that the facts stated therein are true, correct and complete to the best of my knowledge.

01/23/2025

Date



Signature

Mail one copy of completed form to:
Oil and Gas Program Administrator
Arizona Department of Environmental Quality
1110 W. Washington Street
Phoenix, AZ 85007
email **one** copy to: ogcc@azdeq.gov

Permit No. 09-08

STATE OF ARIZONA
OIL & GAS CONSERVATION COMMISSION

Plugging Record

File two copies: one by mail, one electronically

Form No. 10

Union Continental

Plug And Abandonment End Of Well Report

Arizona #001

2160' FNL & 2115' FEL, Section 34, 15N, 19E

Navajo County, AZ / API 02-017-05021

Work Summary:

- 1/5/25** Made P&A operations notifications at 9:00 AM MST.
- 1/6/25** Arrived on location. Completed pre trip inspection on unit and equipment. Moved unit and equipment to location. Held safety meeting. Completed spiral gas check. Checked well pressures. Prepped the wellhead and location using the backhoe. Spotted in equipment and unit. R/U unit and equipment. Set crossbeam on top of wellhead. R/U floor. Prepped and tallied 2-3/8" work string. P/U tubing. TIH and tagged at 260'. Worked string with no luck. TOOH. Dirt was present on the end of the tag sub. R/D equipment and floor. Removed crossbeam. Wait on welder. Completed oil change on the unit. Shut in and secured well.
- 1/7/25** Arrived on location. Held safety meeting. Completed spiral gas check. Checked well pressures. R/U welder on location. Cut and prepped casing. Welded a flange onto the casing. R/D welder. NU BOP. R/U floor and equipment. Installed 6-1/4" bit. TIH and tagged at 231'. R/U power swivel and pump. Attempted to drill but made no progress. R/D swivel and pump. TOOH. L/D 6-1/4" bit. Installed 4-1/4" drill bit. TIH and tagged at 231'. R/U power swivel and pump. Drilled out from 231' to 510'. Sand and a material like cedar fiber in returns. R/D swivel and pump. TOOH. Shut in and secured well.
- 1/8/25** Arrived on location. Held safety meeting. Completed spiral gas check. Checked well pressures. TIH with 4-1/4" bit. Tagged at 470'. R/U power swivel and pump. Drilled out from 470' to 510', progress stopped at 510'. TOOH. L/D bit. TIH to 510'. R/U cementers. Pumped plug #1 from 510' to 336'. R/D cementers. L/D 7 joints.

Reversed circulated at 294'. TOO H with all tubing. WOC overnight. Shut in and secured well.

1/9/25

Arrived on location. Held safety meeting. Completed spiral gas check. Checked well pressures. TIH and tagged plug #1 at 294'. TOO H. R/U cementing services. Attempted to pressure test casing but was unsuccessful. Filled casing with 21 bbls of water, injected 5 bbls at 1.5 bpm and 100 psi. R/D cementers. TIH to 294'. R/U cementing services. Continued pumping plug #1 from 294' to surface. Shut in casing valve, injected 13 bbls of cement (22 sx) until cement returns were seen at surface. R/D cementers. L/D tubing. R/D floor and equipment. WOC 4 hours. R/U welder on location. Performed WH cutoff. Welded P&A marker in place per local regulations. Cement was 20' low. R/U cementing services. Topped off casing from 20' to surface with 1" poly pipe. R/D cementer. R/D unit and equipment. Shut in and secured well and equipment.

Plug Summary:

Plug #1: 510' - Surface, 228 Sacks Type I/II Cement

TIH to 510'. R/U cementers. Pumped plug #1 from 510' to 336'. R/D cementers. L/D 7 joints. Reversed circulated at 294'. TOO H with all tubing. WOC overnight. TIH and tagged plug #1 at 294'. TOO H. R/U cementing services. Attempted to pressure test casing but was unsuccessful. Filled casing with 21 bbls of water, injected 5 bbls at 1.5 bpm and 100 psi. R/D cementers. TIH to 294'. R/U cementing services. Continued pumping plug #1 from 294' to surface. Shut in casing valve, injected 13 bbls of cement (22 sx) until cement returns were seen at surface. R/D cementers. L/D tubing. R/D floor and equipment. WOC 4 hours. R/U welder on location. Performed WH cutoff. Welded P&A marker in place per local regulations. Cement was 20' low. R/U cementing services. Topped off casing from 20' to surface with 1" poly pipe.

Completed Wellbore Diagram

Union Continental
Arizona #001
API: 02-017-05021
Navajo County, Arizona

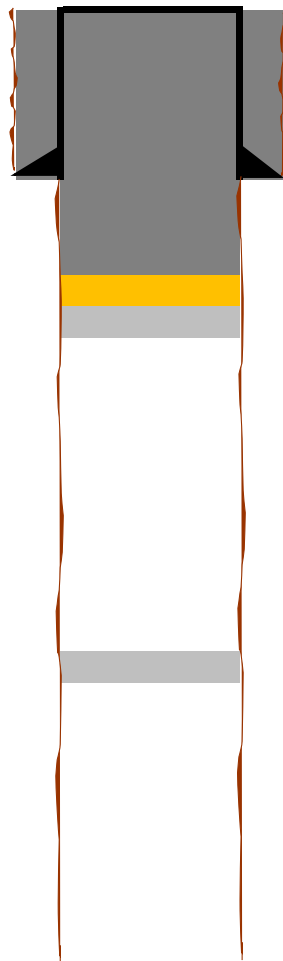
Surface Casing
10.75" 40.5# to 336'
OH: ≈12.75"

Formations
Coconino - 560 feet
Penn - 3096 feet
Red wall - 3577 feet
Granite - 3607 feet

Plug 1
510 feet - Surface
510 foot plug
228 Sacks of Type III Cement

Open Hole
9" Hole Drilled to 3609'

Perforations
N/A

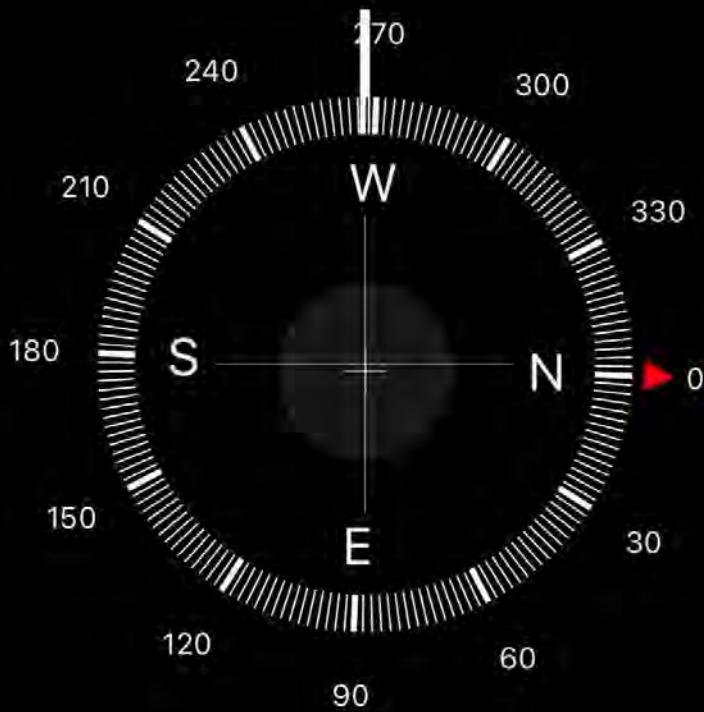


Fill on top of Existing plug
Existing plug 650' to 575'

Existing plug 1900' to 1800'

2:39

LTE



267° W

34°39'7" N 110°18'57" W

Heber, AZ

5980 ft Elevation

Figure 1: GPS



Figure 2: Marker



Figure 3: Cut Off

Number: 1	Date: January 6, 2025
------------------	------------------------------

Description: Wood chunk from drilling at 260 feet bgs.



Number: 2	Date: January 6, 2025
------------------	------------------------------

Description: 6.25-inch diameter drill bit run into drill past 260 feet bgs.



Number: 3

Date: January 8, 2025

Description: Returns seen when drilling at 510 feet bgs.



Number: 4

Date: January 9, 2025

Description: Cement at surface and marker placed at location. Bottom left shows plugged rat hole.



Agenda Item 3.c.3

API# 02-017-60009

PLUGGING RECORD

Operator Orphan - plugged by TetraTech / ADEQ		Address & Phone number	
Federal, State, or Indian Lease No. or lessor's name if fee lease Aztec Land & Cattle Company Fee		Well No. 2	Field & Reservoir Holbrook - Ft. Apache
Location of Well 9 miles Northwest of Snowflake, AZ		Sec - Twp - Rge 33 - 14N - 20E	County Navajo
Application to drill this well was filed in name of Lydia Johnson	Has this well ever produced oil or gas?	Character of well at completion (initial production) Oil (bbls/day) Gas (MCF/day) Dry?	
Date plugged confirmed plugged 01/12/2025	Total depth 1,540'	Amount well producing when plugged: Oil (bbls/day) Gas (MCF/day) Water (bbls/day) N/A N/A N/A	
Name of each formation containing oil or gas. Indicate which formation open to wellbore at time of plugging	Fluid content of each formation	Depth interval of each formation	Size, kind & depth of plugs used. Indicate zones squeeze cemented, giving amount of cement
Dry hole			

CASING RECORD

Size pipe	Put in well (ft.)	Pulled out (ft.)	Left in well (ft.)	Give depth and method of parting casing (shot, etc.)	Packers and shoes
10"	10'	0	10'		
4.5"	1500'		1500'		

Was well filled with heavy drilling mud, according to regulations?

Indicate deepest formation containing fresh water
Coconino - base at 555'

NAME AND ADDRESSES OF ADJACENT LEASE OPERATORS OR OWNERS OF THE SURFACE

Name	Address	Direction from this well
Suzanna Bryant - Rocking Chair Ranch	PO Box 2676, Snowflake, AZ 85937	Surface owner

In addition to other information required on this form, if this well was plugged back for use as a fresh water well, give all pertinent details of plugging operations to base of fresh water sand, perforated interval to fresh water sand, name and address of surface owner, and attach letter from surface owner authorizing completion of this well as a water well and agreeing to assume full liability for any subsequent plugging which might be required.

Use reverse side for additional detail

CERTIFICATE: I, the undersigned, under the penalty of perjury, state that I am the project manager of the contractor Tetra Tech (company) and that I am authorized by said company to make this report; and that this report was prepared under my supervision and direction and that the facts stated therein are true, correct and complete to the best of my knowledge.

02/06/2025

Date



Signature

Permit No. 00-97

Mail one copy of completed form to:
Oil and Gas Program Administrator
Arizona Department of Environmental Quality
1110 W. Washington Street
Phoenix, AZ 85007

email **one** copy to: ogcc@azdeq.gov

STATE OF ARIZONA
OIL & GAS CONSERVATION COMMISSION
Plugging Record

File two copies: one by mail, one electronically

Form No. 10

Post Plugging Report

API Well 02-017-60009

Lydia Johnson 2 Aztec Land and Cattle



Project: 117-1303183B
Task: 3.02-017-60009

February 6, 2025

PREPARED FOR

Arizona Department of Environmental Quality
Oil and Gas Program
1110 W Washington Street
Phoenix, AZ 85022

PRESENTED BY

Tetra Tech, Inc.
4650 East Cotton Center Blvd.
Suite 110
Phoenix, AZ 85040



TETRA TECH

TABLE OF CONTENTS

1.0 Introduction	1
2.0 Abandonment Activities.....	1
2.1 Abandonment Application	2
2.2 Abandonment Procedures	2

FIGURES

Figure 1 – API Well 02-017-60009 Well Location	1
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APPENDICES

- Appendix A** – Form 9: Application to Plug and Abandon
- Appendix B** – Drake Daily Reports
- Appendix C** – Form 10: Plugging Record
- Appendix D** – Tetra Tech Photo Log

1.0 INTRODUCTION

API Well 02-017-60009 is known as the “Lydia Johnson 2 Aztec Land and Cattle” and is in Navajo County, Arizona, in the SW ¼ of the NE ¼ of Section 33, Township 14 North, Range 20 East of the East Gila-Salt River Principal Meridian. This location is at the approximate mapping coordinates of Latitude 34.5636898 and Longitude -110.2250740. **Figure 1**, below, illustrates the general location of this well based upon the currently available data set.

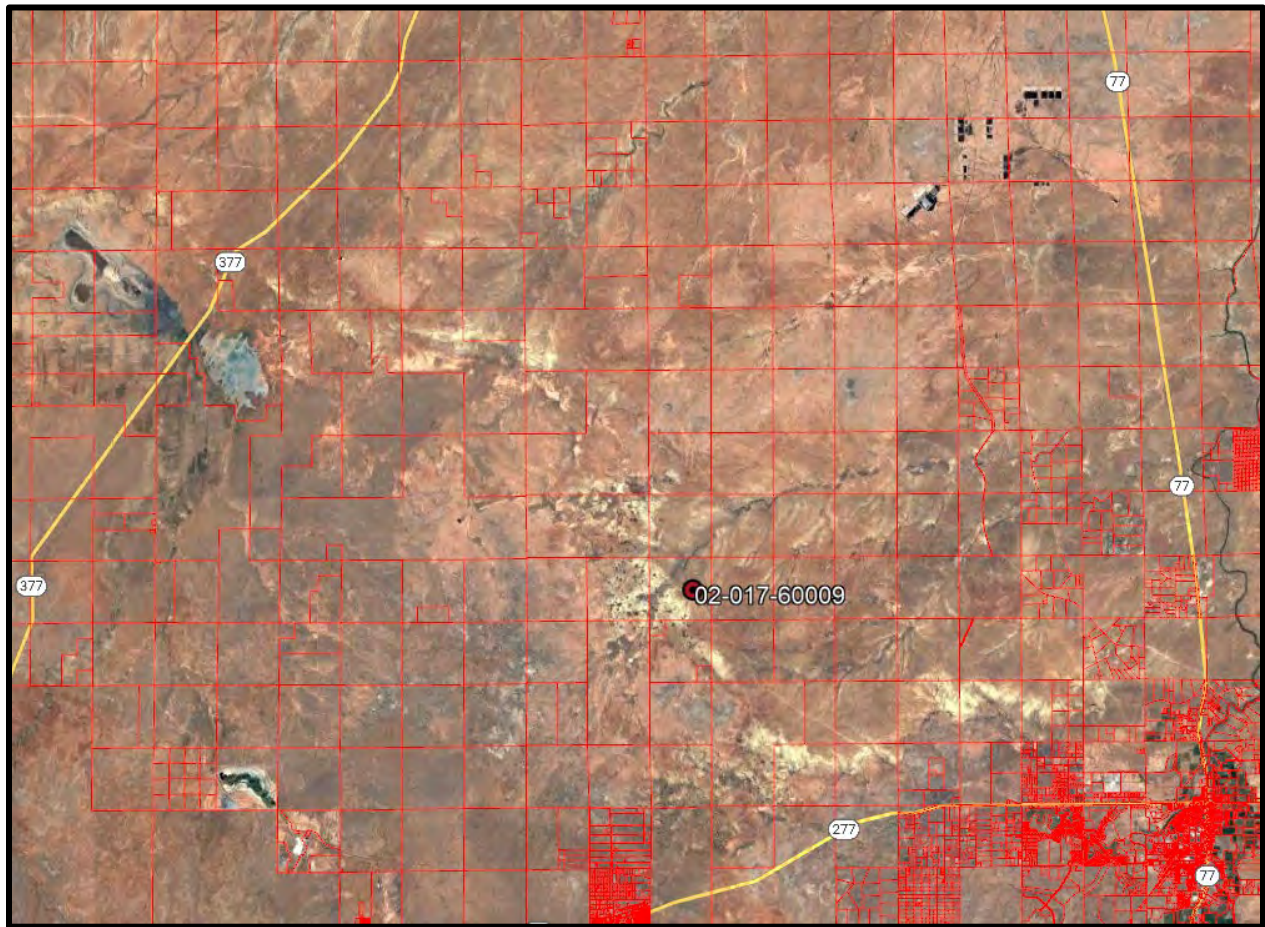


Figure 1 – API Well 02-017-60009 Well Location
(Image Credit: Google Earth with Navajo County Parcel Overlay)

Lydia J. Oil Associates is identified in AZOGCC drilling records as the well operator. The well was spudded on August 27, 1959. The AZOGCC Permit Number for API Well 02-017-60009 is AZOGCC:0097.

2.0 ABANDONMENT ACTIVITIES

2.1 Abandonment Application

Tetra Tech prepared a well abandonment application (Form 9; **Appendix A**) and submitted it to the AZOGCC for approval. This application was presented in an AZOGCC meeting on December 20, 2024, and approved by the AZOGCC commissioners at the meeting.

2.2 Abandonment Procedures

JA Drake Well Servicing Company (Drake) was contracted to abandon the well. Tetra Tech supervised on site operations.

Upon arrival to location, on January 12, 2025, Drake had a welder cut off the portion of the marker above surface. Once cut off, the casing and annulus were found to be plugged by cement. The well record only indicated the well was plugged with heavy drilling mud. Based on both areas being plugged, the decision was made to move off the well and reattach the plug and abandonment marker. The well had hard cement and no leaks at surface. Well history showed the state took Lydia Johnson to court for proper abandonment and this appears to have been completed but without paper work placed in the well file.

Drake completed daily drilling reports as shown in **Appendix B**. Final abandonment activities included placing a well marker, with pertinent well information at the abandoned well location. The final plugging record (Form 10, **Appendix C**) is attached for AZOGCC approval. Tetra Tech's photographs documenting the abandonment procedures are included in **Appendix D**.

APPLICATION TO PLUG AND ABANDON

FIELD Holbrook

OPERATOR Lydia Johnson (now orphan) ADDRESS & PHONE _____

LEASE NUMBER (Lessor's name if fee) _____ WELL NO. 02-017-60009

LOCATION SW 1/4 of the NE 1/4 of Section 33, Township 14 North, Range 20 East

TYPE OF WELL Dry TOTAL DEPTH 1,540'
(Oil, Gas, or Dry)

ALLOWABLE (If Assigned) _____

LAST PRODUCTION TEST OIL _____ (Bbls.) WATER _____ (Bbls.)
GAS _____ (MCF) DATE OF TEST _____

PRODUCING HORIZON _____ PRODUCING FROM _____ TO _____

1. COMPLETE CASING RECORD:

10" set at 10'
4.5" at 1,500'

2. FULL DETAILS OF PROPOSED PLAN OF WORK:

Well was abandoned with heavy mud which dehydrates and causes channeling. Drill out mud from surface to PBTD of 1,540'
Plug 1: 1,540'-1,440' (Ft. Apache)
Plug 2: 645'-545' (Coconino)
Plug 3: Surface - 545' attempting to fill annular along with casing
Post abandonment procedures will include:
- A marker as outlined in AAC R12-7-127 F
- Restoration as outlined in AAC R12-7-127 G
- 48 hour notification as outlined in AAC R12-7-127 H
- Filing of a plugging record within 15 days as outline in AAC R12-7-127 I

DATE COMMENCING OPERATIONS Jan 10, 2025

NAME OF PERSON DOING WORK Drake Energy Services ADDRESS 607 W Pinon St, Farmington, NM 87401

Michelle Spang
Signature
Petroleum Engineer
Title
4650 E Cotton Center Blvd, Suite 110, Phoenix, AZ 85040
Address
12/16/2024
Date

Mail one copy of completed form to:
Oil and Gas Program Administrator
Arizona Department of Environmental Quality
1110 W. Washington Street
Phoenix, AZ 85007
email **one** copy to: ogcc@azdeq.gov

Date Approved December 20, 2024
By _____
STATE OF ARIZONA
OIL & GAS CONSERVATION COMMISSION
Signed by: *J. Roberts*
864294D0822F47B...

STATE OF ARIZONA
OIL & GAS CONSERVATION COMMISSION
Application to Plug and Abandon
File two copies: one by mail, one electronically
Form No. 9

Permit No. AZOGCC:0097

Drake

WELL SERVICE INC.



PO Box 538 Farmington, NM 87499 505.327.7301

Company: Lydia Johnson
 Well Name: Aztec #002
 API #: 02-017-60009
 Date: 1/12/25
 Rig: 31

WORK SUMMARY

Began moving equipment to location. Held safety meeting. Completed spiral gas check. Checked well pressures. R/U welder on location. Cut off old marker. Cement was to surface in casing. Weld marker back in place. R/D welder.

PLUG SUMMARY

<u>Plug No</u>	<u>Plug Depth</u>	<u>Sacks of Cement Used</u>
Plug 1	To	
Plug 1	To	
Plug 2	To	
Plug 2	To	
Plug 2	To	
Plug 2	To	
Plug 7	To	
Plug 8	To	
Plug 9	To	

BRIDGE PLUG/CEMENT RETAINER SUMMARY

Depth Set

WELL PRESSURES

Tubing	_____	0 psi
Casing	_____	0 psi
Bradenhead	_____	0 psi



PO Box 538 Farmington, NM 87499 505.327.7301

Company: Lydia Johnson
 Well Name: Aztec #002
 API #: 02-017-60009
 Date: 1/13/25
 Rig: 31

WORK SUMMARY

Arrived on location. Held safety meeting. Loaded matting board, cross beam and backhoe on trailer. Completed pre trip inspection on unit and equipment. Drove unit and equipment to Snowflake. Traveled to other location. Completed pre trip inspection on equipment. Drove equipment to snowflake.

PLUG SUMMARY

<u>Plug No</u>	<u>Plug Depth</u>	<u>Sacks of Cement Used</u>
Plug 1	To	
Plug 1	To	
Plug 2	To	
Plug 2	To	
Plug 2	To	
Plug 2	To	
Plug 2	To	
Plug 7	To	
Plug 8	To	
Plug 9	To	

BRIDGE PLUG/CEMENT RETAINER SUMMARY

Depth Set

WELL PRESSURES

Tubing _____ 0 psi
 Casing _____ 0 psi
 Bradenhead _____ 0 psi

PLUGGING RECORD

Operator Orphan - plugged by TetraTech / ADEQ		Address & Phone number	
Federal, State, or Indian Lease No. or lessor's name if fee lease Aztec Land & Cattle Company Fee		Well No. 2	Field & Reservoir Holbrook - Ft. Apache
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02/06/2025

Date



Signature

Permit No. 00-97

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Oil and Gas Program Administrator
Arizona Department of Environmental Quality
1110 W. Washington Street
Phoenix, AZ 85007

email **one** copy to: ogcc@azdeq.gov

STATE OF ARIZONA
OIL & GAS CONSERVATION COMMISSION
Plugging Record

File two copies: one by mail, one electronically

Form No. 10

Number: 1	Date: January 12, 2025
------------------	-------------------------------

Description: Photo of surface plug not leaking.



Number: 2	Date: January 13, 2025
------------------	-------------------------------

Description: Well marker placed on well.

