



Katie Hobbs
Governor

State of Arizona
Oil and Gas Conservation Commission

1110 W. Washington Street, Phoenix, AZ 85007
602-771-4501
www.azogcc.az.gov
Chris Schmidt, Oil and Gas Administrator

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, May 24, 2024
10:00 A.M. MST Phoenix, AZ
via Zoom using the link below:

<https://us02web.zoom.us/j/88514793170?pwd=eDVIYkszdS9YOUkyL3ZaOE9mYnllQT09>

Dial in:

+1 669 444 9171 US

Meeting ID:

885 1479 3170

Passcode:

408996

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 Andrew Foss, Oil and Gas Project Manager, at foss.andrew@azdeq.gov or (602) 618-3588 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 - Chris Schmidt:

a. Permit Application

- i. Vote on Application to Drill

1. Ranger Development LLC Well ID: 34-7b FA PD
 - a. Link to Download Permit Application:
<https://azdeq.gov/node/10103>
 - b. Well Shut In Extension Request (Attachment A)**
 - i. Vote on Well Shut In Extension Request
 1. Enterprise Adamana Caverns C-3 and C-5
 - c. Lobbyist**
 - d. Plugging Wells**
 - e. Software Updates**
 - f. Grant Process**
 - g. Rule Changes**
- 3. AZOGCC Chairman Frank Thorwald Report**
 - a. Produced Water Disposal**
- 4. 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.

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.
- 5. AZOGCC Requests for Future Agenda Items**
- 6. Announcements**
- 7. Adjournment of the AZOGCC**

For additional information about this meeting, contact Chris Schmidt, 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://www.azdeq.gov/ogcc-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 at 602-771-2215 or Communications@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), subtitulado 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 al 602-771-2215 o Communications@azdeq.gov. Para un TTY u otro dispositivo, los servicios de retransmisión de telecomunicaciones están disponible llamando al 711.

ATTACHMENT A



ENTERPRISE PRODUCTS PARTNERS L.P.
ENTERPRISE PRODUCTS OPERATING LLC

ENTERPRISE PRODUCTS GP, LLC, GENERAL PARTNER
ENTERPRISE PRODUCTS OLP GP, INC., SOLE MANAGER

April 11, 2024

Christopher Schmidt, P.E.
Oil & Gas Program Administrator
Arizona Oil & Gas Conservation Commission
c/o Arizona Department of Environmental Quality (ADEQ)
1110 W. Washington Street
Phoenix, AZ 85007

**RE: Enterprise Products Operating LP
Adamana Underground Storage
Shut In Status for Well C-3 and C-5**

Dear Mr. Schmidt,

Enterprise Products Operating LP (Enterprise) operates the 11 hydrocarbon storage caverns at the Adamana Underground Storage facility near Holbrook, AZ. On June 12, 2019 the AOGCC approved shut-in status for well C-3 (Permit #602) and well C5 (Permit #606). These two cavern wells have been out of service since 2011 and 2017 respectively. The shut in status allows for constant pressure monitoring in lieu of the requirement to plug and abandon out of service caverns. Enterprise requests a 5-year extension on the shut-in status for these two cavern wells.

Cavern C-3:

A MIT was passed in 2007. In 2011 there was a pressure loss observed and the cavern was emptied of product with no loss of product. Testing was done in 2011 and it was determined the leak is located low in the cavern interval. Constant pressure monitoring has been conducted for the past 5 years and show a continued pressure loss of roughly 1 psi per day. Brine is injected into the brine string, about 3-4 times a month, to maintain the cavern pressure. Please see the attached pressure monitoring report.

Cavern C-5:

A MIT was passed in 2017, however there was a pressure loss observed and the cavern was not placed back into service. Based on the results of the MIT and subsequent observations it was determined the leak is located low in the cavern interval. Constant pressure monitoring has been conducted for the past 5 years and show a continued pressure loss of roughly 1 psi per month. Brine is injected into the brine string, every 6-18 months, to maintain the cavern pressure. Please see the attached pressure monitoring report.

Enterprise maintains the recommendation that these two caverns should not be permanently abandoned. The slow leaks in the cavern interval will draw down the hydrostatic head pressure in the cavern and induce possible roof instability. This could result in increased subsidence, and potential sink hole formation. Due to the proximity of cavern C-3 to the railroad tracks, and C-5

to many other caverns (see attached facility map), it is inadvisable to risk the formation of a sinkhole at either location.

Enterprise plans to leave the product piping isolated from these caverns and will continue constant pressure monitoring. Brine will be injected into the cavern interval to ensure that a positive surface pressure is maintained on the cavern to reduce the risk of roof instability.

List of attachments:

- 1) Sundry Notice (Form No. 25) for Cavern C-3
- 2) Sundry Notice (Form No. 25) for Cavern C-5
- 3) Pressure review (5 year and 1 year) for Cavern C-3
- 4) Pressure review (5 year and 1 year) for cavern C-5
- 5) Facility map showing caverns and Railroad Tracks.
- 6) 2019 Approval Letter from the AOGCC for Shut-In Status

Sincerely,

A handwritten signature in blue ink, appearing to read "Andrew Lloyd".

Andrew Lloyd
Sr. Manager, UGS Technology
Enterprise Products
1100 Louisiana Street
Houston, TX 77002
Phone: 713-381-4647
Email: acloyd@eprod.com

SUNDRY NOTICES AND REPORTS ON WELLS

1. Name of Operator Enterprise Products Operating LP

2. OIL WELL GAS WELL OTHER (Specify) Hydrocarbon Storage Well

3. Well Name C-3

Location 1336.34 FSL, 1144.36 FWL

Sec. 8 Twp. 18N Rge. 24E G&S.R. B&M County Apache, Arizona

4. Federal, State, or Indian Lease Number, or lessor's name if fee lease Enterprise Products Operating LP

5. Field or Pool Name Adamana

6. Check Appropriate Box to Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF <input type="checkbox"/>	PULL OR ALTER CASING <input type="checkbox"/>	WATER SHUT-OFF <input type="checkbox"/>	WEEKLY PROGRESS <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	DIRECTIONAL DRILL <input type="checkbox"/>	FRACTURE TREATMENT <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	PERFORATE CASING <input type="checkbox"/>	SHOOTING OR ACIDIZING <input type="checkbox"/>	ALTER CASING <input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	(OTHER) <u>Request for Shut In Status</u>	ABANDONMENT <input type="checkbox"/>
(OTHER) _____			<input checked="" type="checkbox"/>

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log, Form 4)

1. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.

Request for Shut-In / Temporary Abandonment Status. Attached to this submittal will be the following documents:

- 1) 5 Year Pressure Review
- 2) Facility Map of the Storage Field

8. I hereby certify that the foregoing is true and correct.

Signed 

Title Sr. Manager, UGS Technology Date 04/10/2024

Mail completed form to:
 Oil and Gas Program Administrator
 Arizona Oil & Gas Conservation Commission
 c/o Arizona Department of Environmental Quality
 1110 W. Washington Street
 Phoenix, AZ 85007

e-mail completed form to: azogcc@azdeq.gov

Permit No. _____

STATE OF ARIZONA

OIL & GAS CONSERVATION COMMISSION

Sundry Notice and Reports on Wells

File two copies: by mail, and electronically

Form No. 25

SUNDRY NOTICES AND REPORTS ON WELLS

1. Name of Operator Enterprise Products Operating LP

2. OIL WELL GAS WELL OTHER (Specify) Hydrocarbon Storage Well

3. Well Name C-5
 Location 660.00 FNL, 618.00 FWL
 Sec. 8 Twp. 18N Rge. 24E G&S.R. B&M County Apache, Arizona

4. Federal, State, or Indian Lease Number, or lessor's name if fee lease Enterprise Products Operating LP

5. Field or Pool Name Adamana

6. Check Appropriate Box to Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF	<input type="checkbox"/>	PULL OR ALTER CASING	<input type="checkbox"/>
FRACTURE TREAT	<input type="checkbox"/>	DIRECTIONAL DRILL	<input type="checkbox"/>
SHOOT OR ACIDIZE	<input type="checkbox"/>	PERFORATE CASING	<input type="checkbox"/>
REPAIR WELL	<input type="checkbox"/>	CHANGE PLANS	<input type="checkbox"/>
(OTHER)	<input type="checkbox"/>		

SUBSEQUENT REPORT OF:

WATER SHUT-OFF	<input type="checkbox"/>	WEEKLY PROGRESS	<input type="checkbox"/>
FRACTURE TREATMENT	<input type="checkbox"/>	REPAIRING WELL	<input type="checkbox"/>
SHOOTING OR ACIDIZING	<input type="checkbox"/>	ALTER CASING	<input type="checkbox"/>
(OTHER)	<u>Request for Shut In Status</u>		<input checked="" type="checkbox"/>

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log, Form 4)

1. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.

Request for Shut-In / Temporary Abandonment Status. Attached to this submittal will be the following documents:

- 1) 5 Year Pressure Review
- 2) Facility Map of the Storage Field

8. I hereby certify that the foregoing is true and correct.

Signed



Title

Sr. Manager, UGS Technology Date 04/10/2024

Mail completed form to:

Oil and Gas Program Administrator
 Arizona Oil & Gas Conservation Commission
 c/o Arizona Department of Environmental Quality
 1110 W. Washington Street
 Phoenix, AZ 85007

e-mail completed form to: azogcc@azdeq.gov

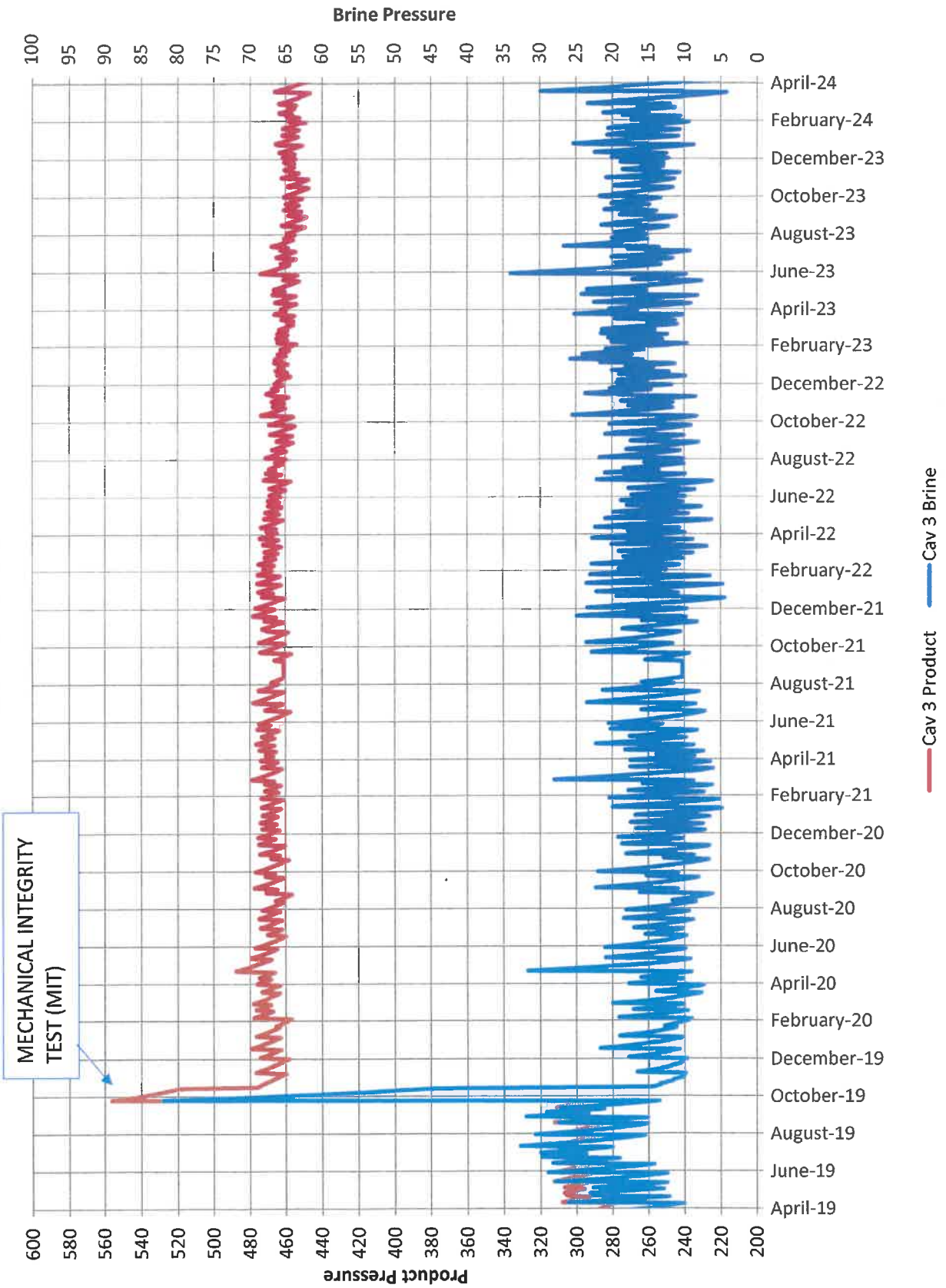
Permit No. _____

**STATE OF ARIZONA
 OIL & GAS CONSERVATION COMMISSION**

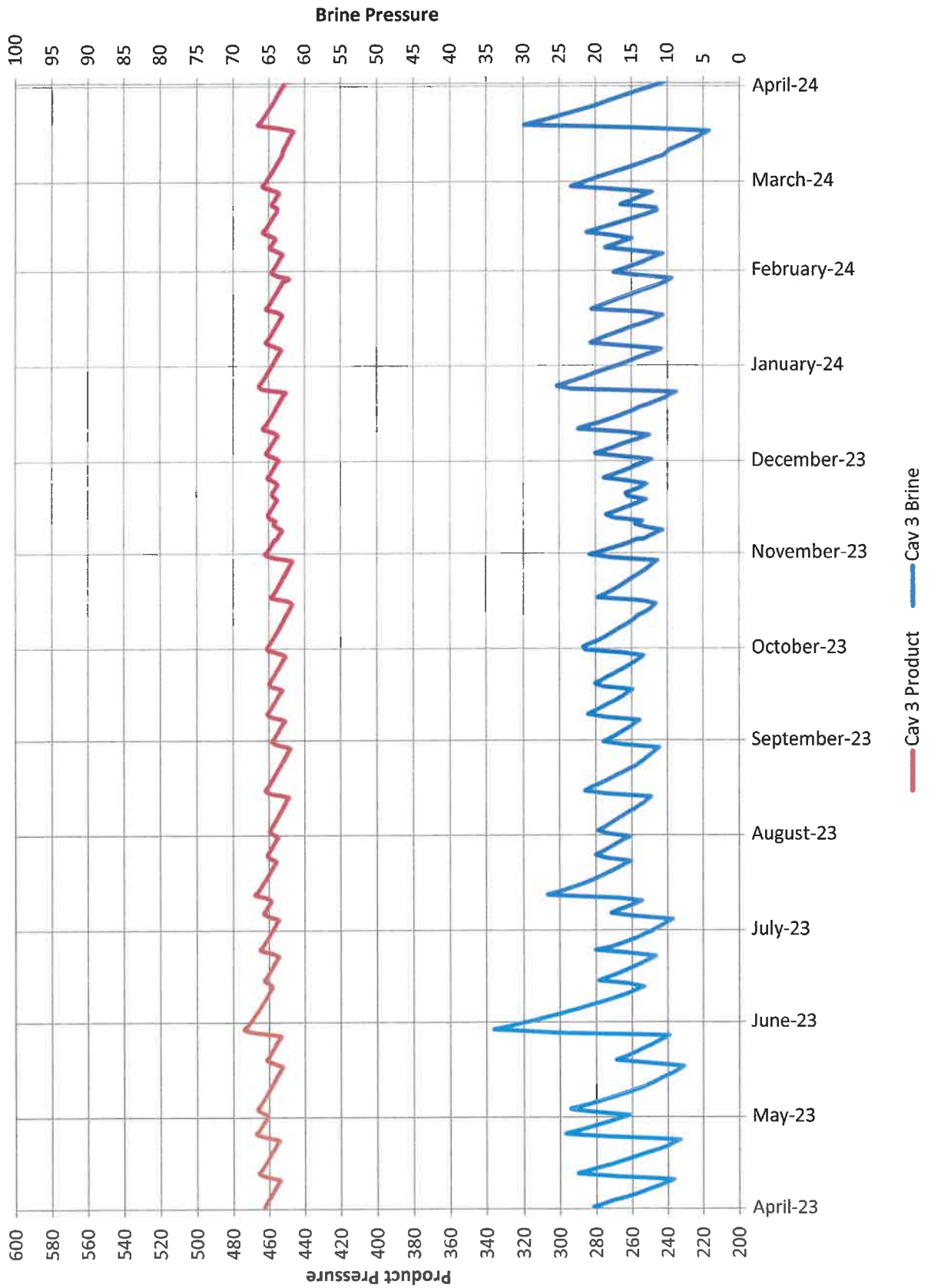
Sundry Notice and Reports on Wells
File two copies: by mail, and electronically

Form No. 25

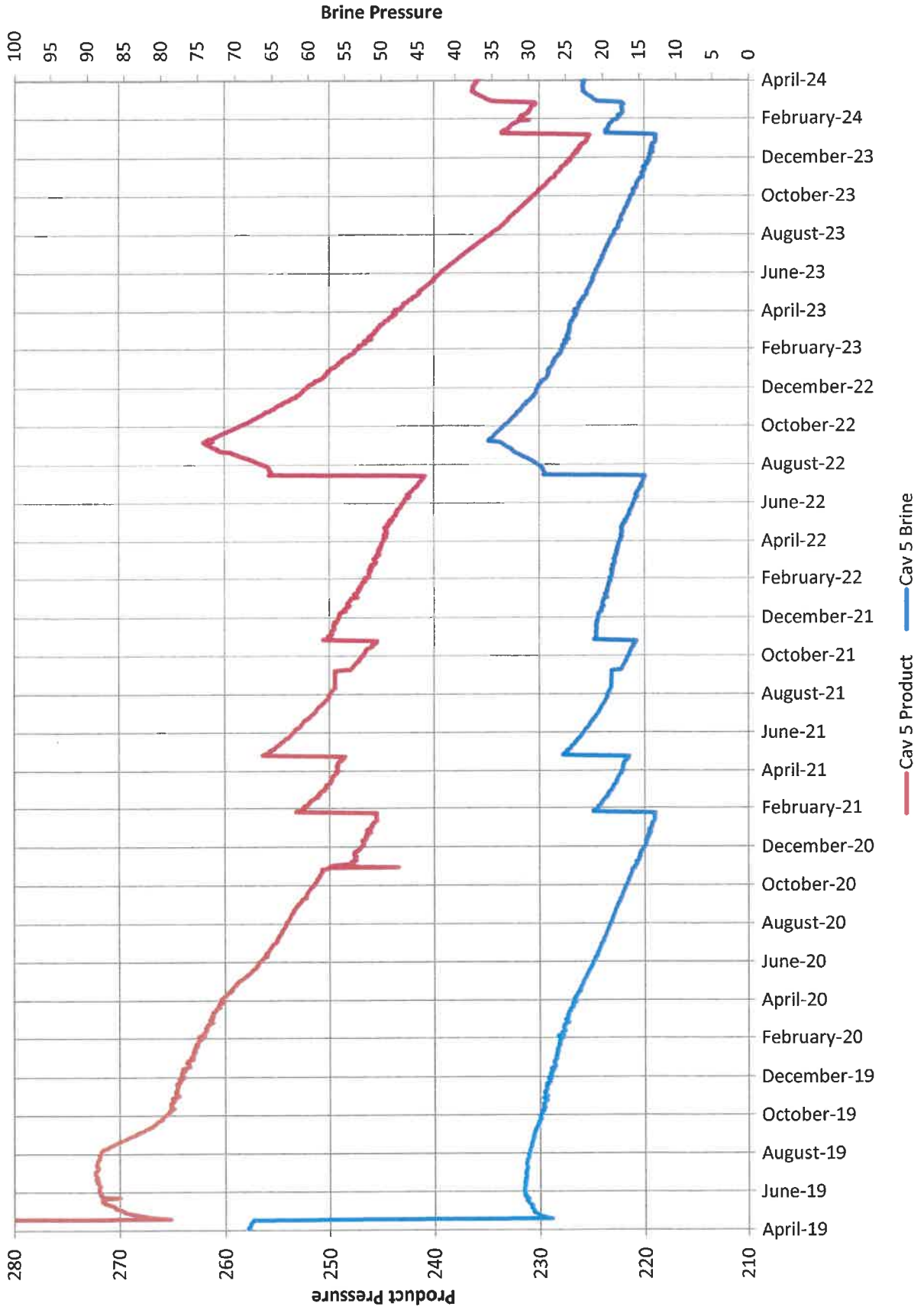
Adamana C-3



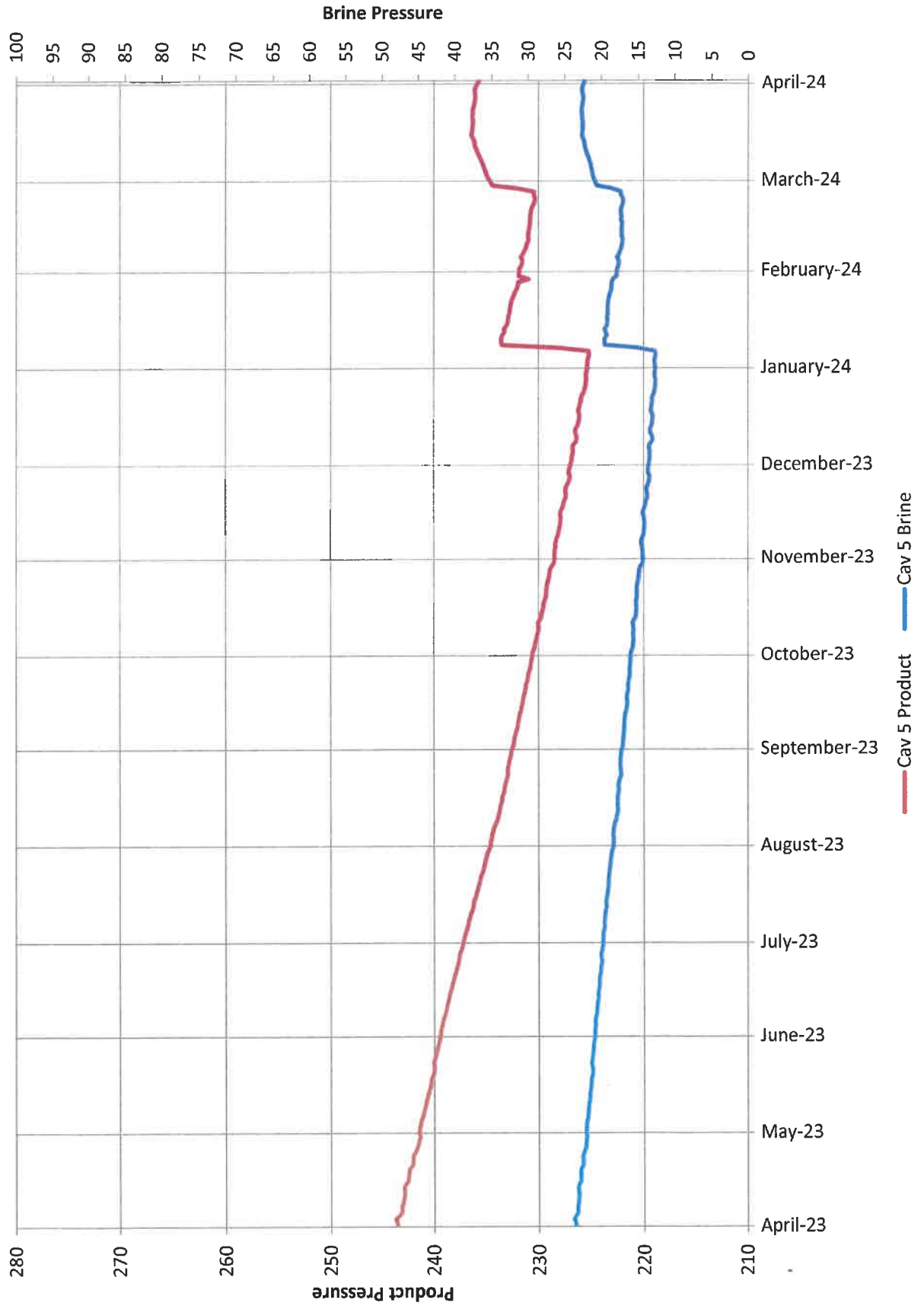
Adamana C-3

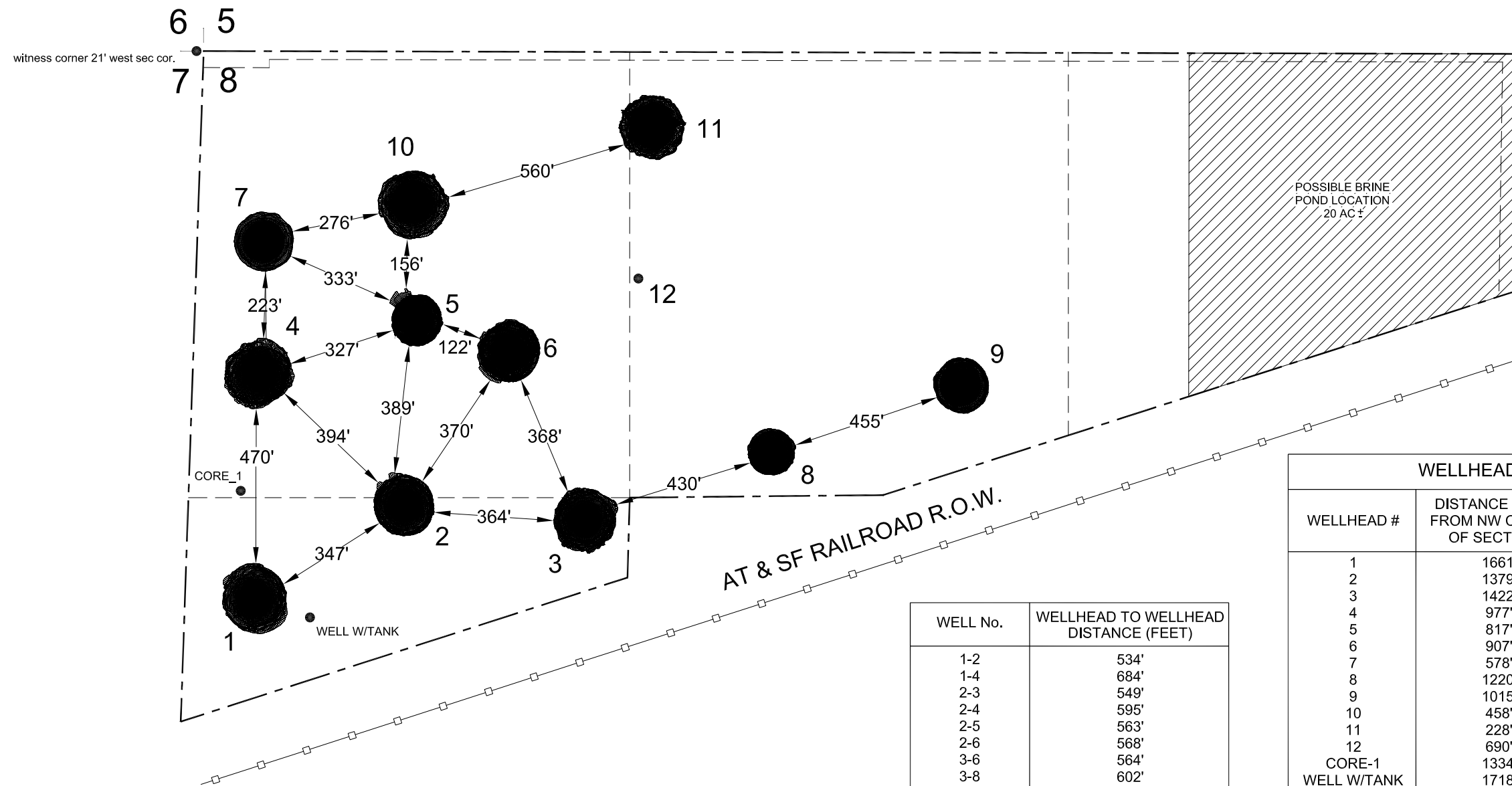


Adamana C-5



Adamana C-5

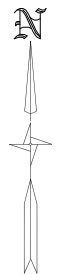




WELLHEAD LOCATIONS		
WELLHEAD #	DISTANCE SOUTH FROM NW CORNER OF SECTION 8	DISTANCE EAST FROM SECTION LINE TO WELLHEAD
1	1661'	210'
2	1379'	654'
3	1422'	1203'
4	977'	202'
5	817'	672'
6	907'	955'
7	578'	198'
8	1220'	1763'
9	1015'	2331'
10	458'	649'
11	228'	1366'
12	690'	1342'
CORE-1	1334'	158'
WELL W/TANK	1718'	381'

WELL No.	WELLHEAD TO WELLHEAD DISTANCE (FEET)
1-2	534'
1-4	684'
2-3	549'
2-4	595'
2-5	563'
2-6	568'
3-6	564'
3-8	602'
3-12	750'
4-5	502'
4-7	399'
5-6	294'
5-7	524'
5-10	359'
6-8	857'
6-10	535'
6-11	806'
7-10	471'
8-9	610'
8-12	666'
9-12	1,031'
10-11	760'
11-12	464'

WELL No.	SONAR SURVEY DATE
1	11-FEB-2008
2	18-JAN-2008
3	07-MAR-2007
4	25-APR-2012
5	24-APR-2012
6	24-APR-2012
7	11-FEB-2008
8	21-JAN-2008
9	06-FEB-2009
10	11-FEB-2008
11	25-APR-2012
12	--



NOTES:
1) PROPERTY BOUNDARY AND WELLHEAD LOCATIONS TAKEN FROM ISAACSON ENGINEERING SURVEY DATED 7/23/2007.

TITLE: ENTERPRISE ADAMANA FACILITY APACHE COUNTY, ARIZONA				
DATE:	DRAWN:	CHECK:	SCALE:	AS SHOWN
PROJECT NUMBER: RSI-1800-12-318				



Douglas A. Ducey
Governor

State of Arizona
Oil and Gas Conservation Commission

1110 W. Washington Street, Phoenix, AZ 85007
602-771-4501
www.azogcc.az.gov

Dennis L. Turner, Oil and Gas Administrator

Commissioners:
Frank Thorwald, Chair
J. Dale Nations, Ph.D., Vice Chair
Stephen R. Cooper
William C. Feyerabend

June 12, 2019

VIA EMAIL and US MAIL

Mr. Mark Thompson
Sr. Director, UGS Technology
Enterprise Products
18159 East Petroleum Drive
Baton Rouge, LA 70809

RE: Commission approvals: 1) shut-in status for cavern wells C-3 and C-5; 2) change cavern well workover frequency facility-wide; and 3) perform pressure testing of the C-3 well

Dear Mr. Thompson:

At the Arizona Oil & Gas Conservation Commission (AOGCC or Commission) meeting of May 24, 2019, the Commission voted to approve Enterprise Products requests for its Adamana facility, as discussed below. This letter also acknowledges receipt on May 1, 2019 of materials submitted in support of the subject requests: letter requesting change in frequency of workovers from five to ten years; Sundry Notices for mechanical integrity tests (MIT) and shut-in status on C-3 and C-5; updated completion reports (Form 4) for C-3 and C-5; 2007 workover and MIT reports for C-3; 2017 workover and MIT reports for C-5; and a PowerPoint presentation. These were also received in electronic format.

Shut-in status for cavern wells C-3 and C-5: Request for shut-in status for five years is approved for cavern wells C-3 (permit # 602) and C-5 (permit # 606). AOGCC records indicate that C-3 has been out of service since 2011 and C-5 has been out of service since 2017. Shut-in status for both wells expires May 24, 2024.

Cavern well workover frequency: Request to change the frequency of workovers on the cavern wells from a five to a ten year cycle is approved. The approval became effective on May 24, 2019. The AOGCC recognizes that Enterprise Products uses sonar survey technology to perform capacity determinations every five years that does not require workovers and can also perform MITs at five year intervals without performing a workover each time. During the May 24, 2019 meeting, Enterprise Products committed to maintaining compliance with A.A.C. R12-7-182(D) by continuing to perform capacity determinations and MITs on a five year cycle. Enterprise Products also stated it will continue with 10 year workover cycles at the Adamana facility.

Pressure testing of the C-3 injection well: The request to re-enter cavern well C-3 to perform pressure testing is approved. Owing to the absence of any activity in excess of 60 days (A.A.C R12-7-125(A)), the operator was required to submit a formal request to the Commission for approval. The AOGCC also authorized Enterprise Products to continue to pump brine into the cavern as needed to maintain pressure and monitor any pressure changes. However, any additional work that requires re-entry will require Commission approval beforehand. The AOGCC suggested contacting the Administrator three months prior to commencing any new work.


Mr. Thompson,

p. 2

Please direct any questions and all correspondence to:

Dennis L. Turner
Oil & Gas Program Administrator
Arizona Oil & Gas Conservation Commission
c/o Arizona Department of Environmental Quality
1110 W. Washington Street
Phoenix, AZ 85007
ogcc@azdeq.gov

Sincerely,



Dennis L. Turner
Oil & Gas Program Administrator

cc: Frank Thorwald, Chairman, Arizona Oil and Gas Conservation Commission (email only)