

Well Name: AGU	Well Location: T21S / R36E / SEC 36 / SWSW / 32.4316075 / -103.2266934	County or Parish/State: LEA / NM
Well Number: 329	Type of Well: OIL WELL	Allottee or Tribe Name:
Lease Number: STATE	Unit or CA Name: ARROWHEAD GRAYBURG UNIT	Unit or CA Number: NMNM84642X
US Well Number: 300253484200S1	Operator: EMPIRE NEW MEXICO LLC	

Accepted for record only BLM approval required NMOCD 5/1324 X 7

Notice of Intent

Sundry ID: 2789376

Type of Submission: Notice of Intent	Type of Action: Plug Back
Date Sundry Submitted: 05/09/2024	Time Sundry Submitted: 02:06
Date proposed operation will begin: 05/20/2024	

**Procedure Description:** The CIBP will act as a barrier to isolate the lower zones of the Grayburg formation as this workover tests the upper zones. Due to the distance between the lowest perf and the CIBP setting depth, we are unable to spot or bail the amount of cement that would suffice the BLM's requirements. The CIBP will be drilled out prior to the well being plugged & abandoned as is required by the BLM and NMOCD.

Surface Disturbance

Is any additional surface disturbance proposed?: No

NOI Attachments

Procedure Description

AGU\_329\_BLM\_Package\_04232024\_NS\_20240509140600.pdf

Well Name: AGU

Well Location: T21S / R36E / SEC 36 / SWSW / 32.4316075 / -103.2266934

County or Parish/State: LEA / NM

Well Number: 329

Type of Well: OIL WELL

Allottee or Tribe Name:

Lease Number: STATE

Unit or CA Name: ARROWHEAD GRAYBURG UNIT

Unit or CA Number: NMNM84642X

US Well Number: 300253484200S1

Operator: EMPIRE NEW MEXICO LLC

Conditions of Approval

Specialist Review

AGU\_329\_\_2788253\_\_PROCEDURE\_AND\_COA\_20240509183656.pdf

Operator

I certify that the foregoing is true and correct. Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction. Electronic submission of Sundry Notices through this system satisfies regulations requiring a

Operator Electronic Signature: NATHAN SANDEL

Signed on: MAY 09, 2024 02:06 PM

Name: EMPIRE NEW MEXICO LLC

Title: Engineer

Street Address: 25025 INTERSTATE 45 STE 420

City: THE WOODLANDS State: TX

Phone: (918) 404-4202

Email address: NSANDEL@EMPIREPETROCORP.COM

Field

Representative Name:

Street Address:

City: State: Zip:

Phone:

Email address:

BLM Point of Contact

BLM POC Name: KEITH P IMMATTY

BLM POC Title: ENGINEER

BLM POC Phone: 5759884722

BLM POC Email Address: KIMMATTY@BLM.GOV

Disposition: Approved

Disposition Date: 05/09/2024

Signature: KEITH IMMATTY

Form 3160-5 (June 2019)	UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT	FORM APPROVED OMB No. 1004-0137 Expires: October 31, 2021
<b>SUNDRY NOTICES AND REPORTS ON WELLS</b> <i>Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.</i>		5. Lease Serial No.
		6. If Indian, Allottee or Tribe Name

<b>SUBMIT IN TRIPLICATE</b> - Other instructions on page 2		7. If Unit of CA/Agreement, Name and/or No.
1. Type of Well <input type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other		8. Well Name and No.
2. Name of Operator		9. API Well No.
3a. Address	3b. Phone No. (include area code)	10. Field and Pool or Exploratory Area
4. Location of Well (Footage, Sec., T.,R.,M., or Survey Description)		11. Country or Parish, State

12. CHECK THE APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT OR OTHER DATA				
TYPE OF SUBMISSION	TYPE OF ACTION			
<input type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Hydraulic Fracturing	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input type="checkbox"/> Other
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal	

13. Describe Proposed or Completed Operation: Clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleate horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be perfonned or provide the Bond No. on file with BLM/BIA. Required subsequent reports must be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 must be filed once testing has been completed. Final Abandonment Notices must be filed only after all requirements, including reclamation, have been completed and the operator has detennined that the site is ready for final inspection.)

14. I hereby certify that the foregoing is true and correct. Name (Printed/Typed)		
	Title	
Signature	Date	

<b>THE SPACE FOR FEDERAL OR STATE OFFICE USE</b>		
Approved by	Title	Date
Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.	Office	

Title 18 U.S.C Section 1001 and Title 43 U.S.C Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Instructions on page 2)

## GENERAL INSTRUCTIONS

This form is designed for submitting proposals to perform certain well operations and reports of such operations when completed as indicated on Federal and Indian lands pursuant to applicable Federal law and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local area or regional procedures and practices, are either shown below, will be issued by or may be obtained from the local Federal office.

## SPECIFIC INSTRUCTIONS

*Item 4* - Locations on Federal or Indian land should be described in accordance with Federal requirements. Consult the local Federal office for specific instructions.

*Item 13*: Proposals to abandon a well and subsequent reports of abandonment should include such special information as is required by the local Federal office. In addition, such proposals and reports should include reasons for the abandonment; data on any former or present productive zones or other zones with present significant fluid contents not sealed off by cement or otherwise; depths (top and bottom) and method of placement of cement plugs; mud or other material placed below, between and above plugs; amount, size, method of parting of any casing, liner or tubing pulled and the depth to the top of any tubing left in the hole; method of closing top of well and date well site conditioned for final inspection looking for approval of the abandonment. If the proposal will involve **hydraulic fracturing operations**, you must comply with 43 CFR 3162.3-3, including providing information about the protection of usable water. Operators should provide the best available information about all formations containing water and their depths. This information could include data and interpretation of resistivity logs run on nearby wells. Information may also be obtained from state or tribal regulatory agencies and from local BLM offices.

## NOTICES

The privacy Act of 1974 and the regulation in 43 CFR 2.48(d) provide that you be furnished the following information in connection with information required by this application.

AUTHORITY: 30 U.S.C. 181 et seq., 351 et seq., 25 U.S.C. 396; 43 CFR 3160.

PRINCIPAL PURPOSE: The information is used to: (1) Evaluate, when appropriate, approve applications, and report completion of subsequent well operations, on a Federal or Indian lease; and (2) document for administrative use, information for the management, disposal and use of National Resource lands and resources, such as: (a) evaluating the equipment and procedures to be used during a proposed subsequent well operation and reviewing the completed well operations for compliance with the approved plan; (b) requesting and granting approval to perform those actions covered by 43 CFR 3162.3-2, 3162.3-3, and 3162.3-4; (c) reporting the beginning or resumption of production, as required by 43 CFR 3162.4-1(c) and (d) analyzing future applications to drill or modify operations in light of data obtained and methods used.

ROUTINE USES: Information from the record and/or the record will be transferred to appropriate Federal, State, local or foreign agencies, when relevant to civil, criminal or regulatory investigations or prosecutions in connection with congressional inquiries or to consumer reporting agencies to facilitate collection of debts owed the Government.

EFFECT OF NOT PROVIDING THE INFORMATION: Filing of this notice and report and disclosure of the information is mandatory for those subsequent well operations specified in 43 CFR 3162.3-2, 3162.3-3, 3162.3-4.

The Paperwork Reduction Act of 1995 requires us to inform you that:

The BLM collects this information to evaluate proposed and/or completed subsequent well operations on Federal or Indian oil and gas leases.

Response to this request is mandatory.

The BLM would like you to know that you do not have to respond to this or any other Federal agency-sponsored information collection unless it displays a currently valid OMB control number.

**BURDEN HOURS STATEMENT:** Public reporting burden for this form is estimated to average 8 hours per response, including the time for reviewing instructions, gathering and maintaining data, and completing and reviewing the form. Direct comments regarding the burden estimate or any other aspect of this form to U.S. Department of the Interior, Bureau of Land Management (1004-0137), Bureau Information Collection Clearance Officer (WO-630), 1849 C St., N.W., Mail Stop 401 LS, Washington, D.C. 20240

## **Additional Information**

### **Location of Well**

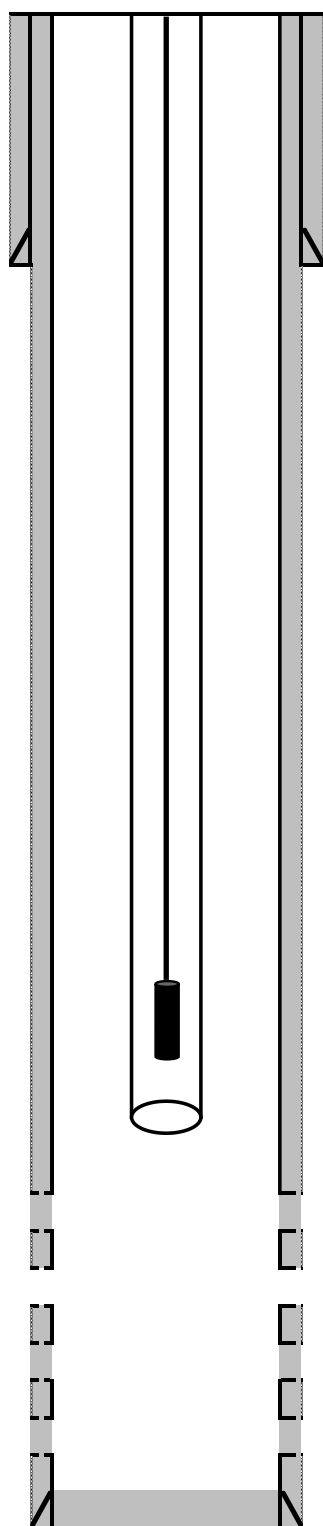
0. SHL: SWSW / 1270 FSL / 250 FWL / TWSP: 21S / RANGE: 36E / SECTION: 36 / LAT: 32.4316075 / LONG: -103.2266934 ( TVD: 0 feet, MD: 0 feet )

BHL: SWSW / 1270 FSL / 250 FWL / TWSP: 21S / SECTION: / LAT: 0.0 / LONG: 0.0 ( TVD: 0 feet, MD: 0 feet )

## **Procedure**

1. MIRU WOR.
2. Load well with FSW.
3. MIRU spool and POOH with cable and ESP if present.
4. ND WH and NU BOP.
5. Release packer, RIH to tag for fill, then scan tubing OOH.
6. RIH with bit and scraper to 3750'. POOH.
7. MIRU WLU and RIH with 7" CIBP to 3712'. Pressure test to 500 psi.
  - a. The CIBP will act as a barrier to isolate the lower zones of the Grayburg formation as this workover tests the upper zones. Due to the distance between the lowest perf and the CIBP setting depth, we are unable to spot or bail the amount of cement that would suffice the BLM's requirements. The CIBP will be drilled out prior to the well being plugged & abandoned as is required by the BLM and NMOCD.
8. Perforate 3685' – 3710' (25') at 6 spf at 120-degree phasing.
9. RIH with testing packer to 3650' and clean perms with 3750 gallons of acid. Pump acid under 900 psi @ WH. POOH.
10. Swab well after acid job to determine inflow.
11. RIH ESP and cable.
12. Notify NMOCD.
13. RDMO.

## Current WBD



9-5/8" CSG @ 508'

Sqz'd perfs: 3724' - 27', 54' - 58'

Perfs: 3776' - 82', 91' - 3800'

Sqz'd Perfs: 3775' - 81', 92' - 02'

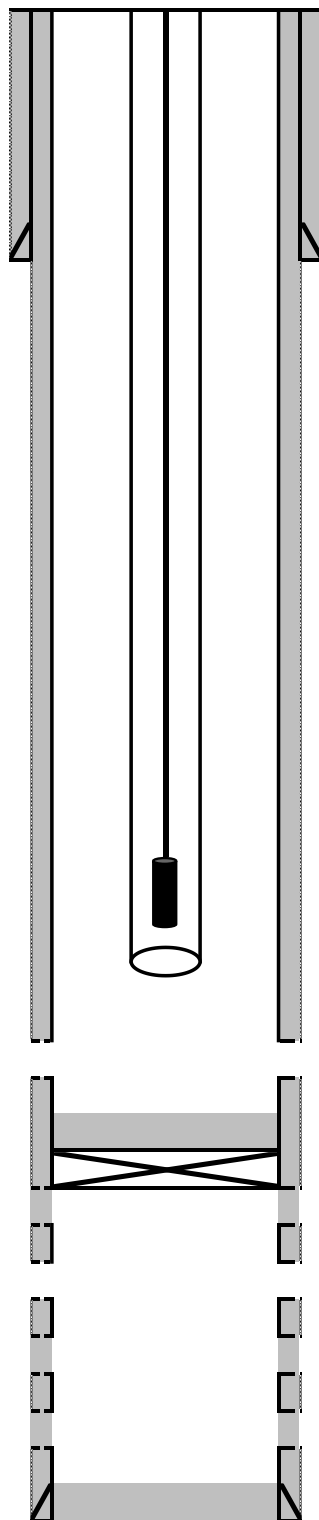
Sqz'd perfs: 3811' - 15', 23' - 27', 38' - 46'

7" CSG 20# K-55 @ 3884'

PBTD: 3871'

TD: 3885'

## Proposed WBD



9-5/8" CSG @ 508'

Add perfs: 3685' - 3710'

Set CIBP @ 3712'

Sqz'd perfs: 3724' - 27', 54' - 58'

Perfs: 3776' - 82', 91' - 3800'

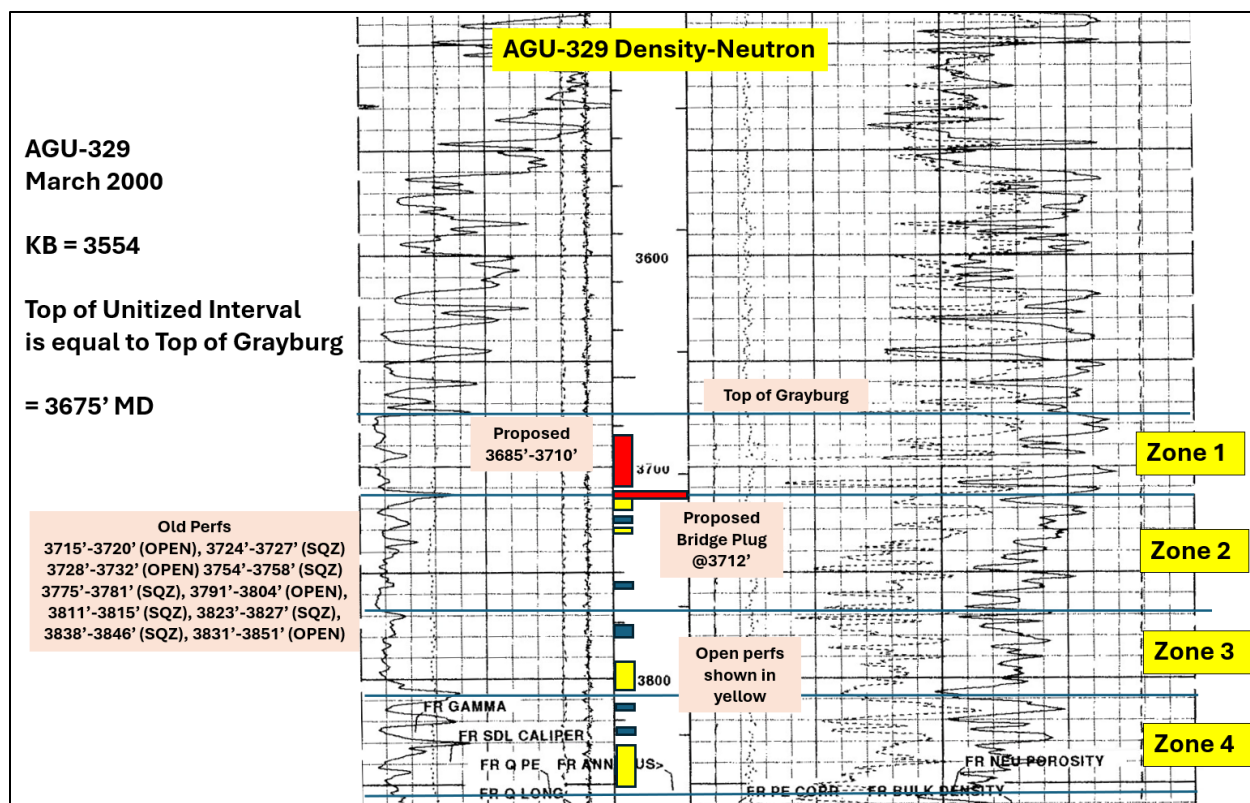
Sqz'd Perfs: 3775' - 81', 92' - 02'

Sqz'd perfs: 3811' - 15', 23' - 27', 38' - 46'

7" CSG 20# K-55 @ 3884'

PBTD: 3871'

TD: 3885'



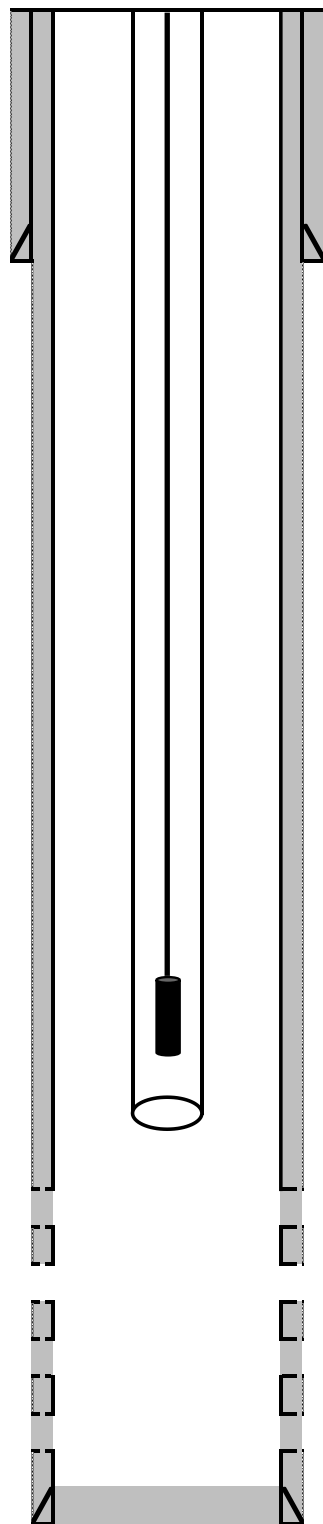
AGU-329 Neutron-Density Log with Recommended Perforations

## Procedure

1. MIRU WOR.
2. Load well with FSW.
3. MIRU spool and POOH with cable and ESP if present.
4. ND WH and NU BOP.
5. Release packer, RIH to tag for fill, then scan tubing OOH.
6. RIH with bit and scraper to 3750'. POOH.
7. MIRU WLU and RIH with 7" CIBP to 3712'. Pressure test to 500 psi.
  - a. The CIBP will act as a barrier to isolate the lower zones of the Grayburg formation as this workover tests the upper zones. Due to the distance between the lowest perf and the CIBP setting depth, we are unable to spot or bail the amount of cement that would suffice the BLM's requirements. The CIBP will be drilled out prior to the well being plugged & abandoned as is required by the BLM and NMOCD.
8. Perforate 3685' – 3710' (25') at 6 spf at 120-degree phasing.
9. RIH with testing packer to 3650' and clean perfs with 3750 gallons of acid. Pump acid under 900 psi @ WH. POOH.
10. Swab well after acid job to determine inflow.
11. RIH ESP and cable.
12. Notify NMOCD.
13. RDMO.

**Procedure OK as proposed. Please review COA below. Variance requested to not spot/ bail cement on top of CIBP. Reviewed and OK: Operator requests option to re-enter zones below. Zonal isolation will be established at or prior to P&A of the well. After operations are completed, please submit Recompletion Sundry to update Completion Report and a Subsequent Report to update well status**

## Current WBD



9-5/8" CSG @ 508'

Sqz'd perfs: 3724' - 27', 54' - 58'

Perfs: 3776' - 82', 91' - 3800'

Sqz'd Perfs: 3775' - 81', 92' - 02'

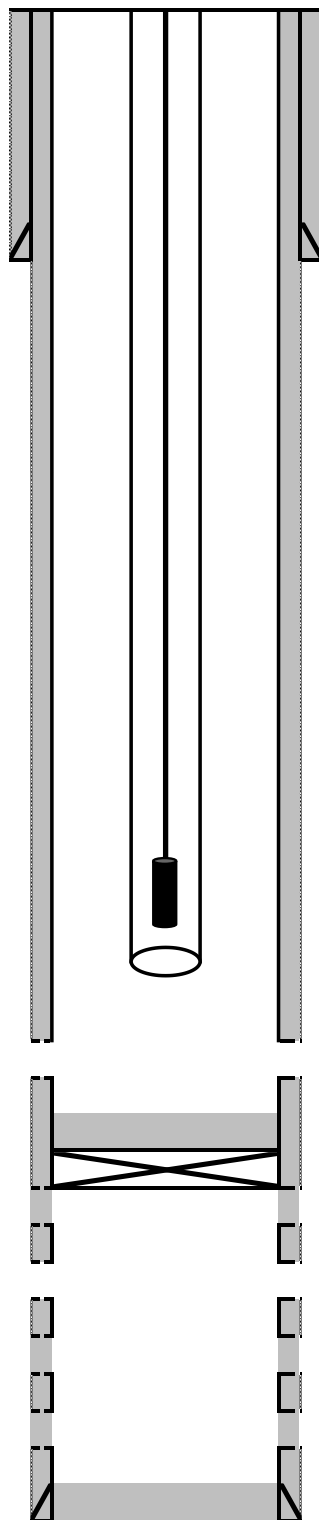
Sqz'd perfs: 3811' - 15', 23' - 27', 38' - 46'

7" CSG 20# K-55 @ 3884'

PBTD: 3871'

TD: 3885'

## Proposed WBD



9-5/8" CSG @ 508'

Add perfs: 3685' - 3710'

Set CIBP @ 3712'

Sqz'd perfs: 3724' - 27', 54' - 58'

Perfs: 3776' - 82', 91' - 3800'

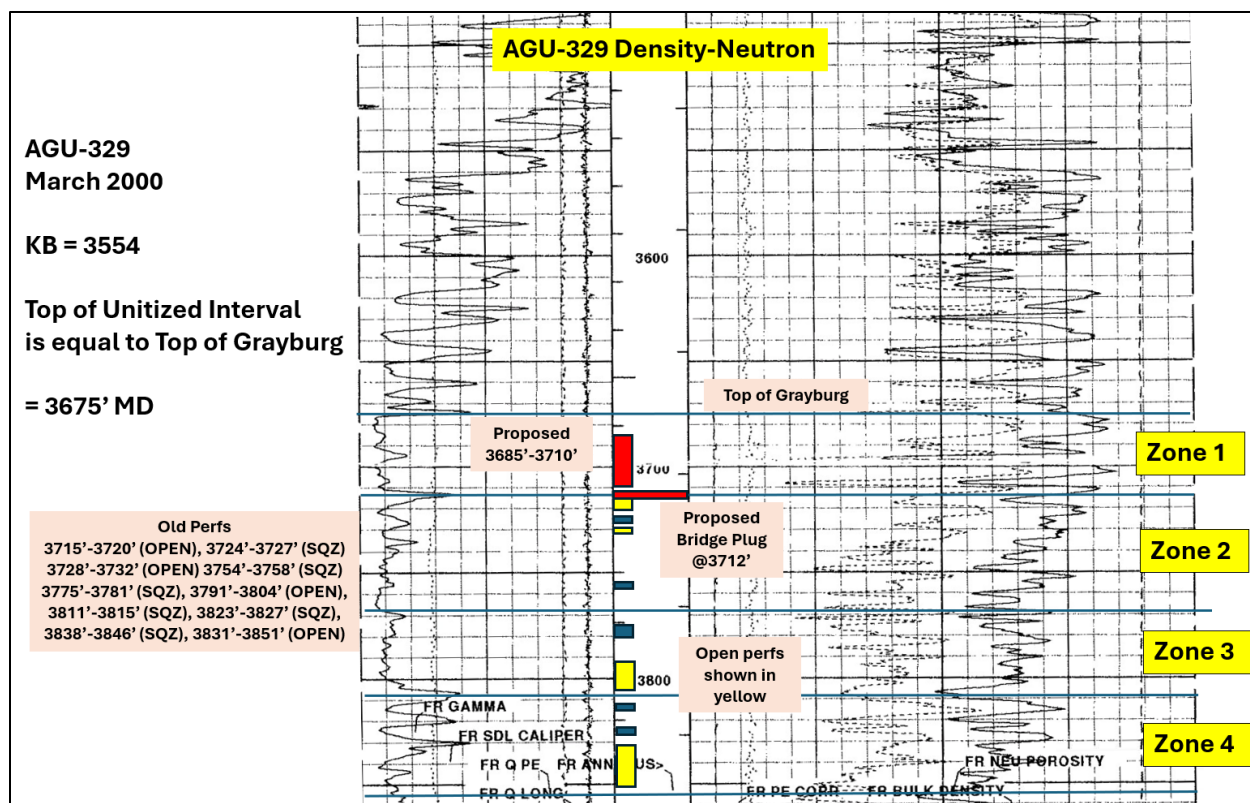
Sqz'd Perfs: 3775' - 81', 92' - 02'

Sqz'd perfs: 3811' - 15', 23' - 27', 38' - 46'

7" CSG 20# K-55 @ 3884'

PBTD: 3871'

TD: 3885'



AGU-329 Neutron-Density Log with Recommended Perforations

**BUREAU OF LAND MANAGEMENT**  
**Carlsbad Field Office**  
**620 East Greene Street**  
**Carlsbad, New Mexico 88220**  
**575-234-5972**

**Conditions of Approval for Permanent Abandonment of a Production Zone**

Failure to comply with the following Conditions of Approval may result in a Notice of Incidents of Noncompliance (INC) in accordance with 43 CFR 3163.1.

1. Plugging operations shall commence within ninety (90) days from the approval date of this Notice of Intent to Plug Back.

**If you are unable to plug the well by the 90<sup>th</sup> day provide this office, prior to the 90<sup>th</sup> day, with the reason for not meeting the deadline and a date when we can expect the completed interval to be plugged. Failure to do so will result in enforcement action.**

**The rig used for the plugging procedure cannot be released and moved off without the prior approval of the authorized officer. Failure to do so may result in enforcement action.**

2. Notification: Contact the appropriate BLM office at least 24 hours prior to the commencing of any plug back operations. For wells in Chaves and Roosevelt County, call 575-627-0272; Eddy County, call 575-361-2822; Lea County, call 575-689-5981
3. Blowout Preventers: A blowout preventer (BOP), as appropriate, shall be installed before commencing any plugging operation. The BOP must be installed and maintained as per API and manufacturer recommendations. The minimum BOP requirement is a 2M system for a well not deeper than 9,100 feet, a 3M system for a well not deeper than 13,600 feet, or a 5M system for a well not deeper than 22,700 feet (all depths are for measured well depth).
4. Mud Requirement: Mud shall be placed between all plugs. Minimum consistency of plugging mud shall be obtained by mixing at the rate of 25 sacks (50 pounds each) of gel per 100 barrels of brine water. Minimum nine (9) pounds per gallon.
5. Cement Requirement: Sufficient cement shall be used to bring any required plug to the specified depth and length. Any given cement volumes on the proposed plugging procedure are merely estimates and are not final. Unless specific approval is received, no plug except the surface plug shall be less than 25 sacks of cement. Any plug that requires a tag will have a minimum WOC time of 4 hours.

In lieu of a cement plug across perforations in a cased hole (not for any other plugs), a bridge plug set within 50 feet to 100 feet above the perforations shall be capped with 25 sacks of cement. If a bailer is used to cap this plug, 35 feet of cement shall be sufficient. **Before pumping or bailing cement on top of CIBP, tag will be required to verify depth. Based on depth, a tag of the cement may be deemed necessary.**

Unless otherwise specified in the approved procedure, the cement plug shall consist of either Neat Class "C", for up to 7,500 feet of depth or Neat Class "H", for deeper than 7,500 feet plugs.

6. Casing Integrity Test: The casing shall be filled with corrosion inhibited fluid above the CIBP and pressure tested to 1000 psi surface pressure with a pressure drop not more than 10 percent over 15-minute period. If the well does not pass the casing integrity test, then the operator shall either repair the casing and re-test or within 30 days submit a procedure to plug and abandon the well.
7. Subsequent Plug back Reporting: Within 30 days after plug back work is completed, file a Subsequent Report (Form 3160-5) or via the AFMSS 2 WISx Module to BLM. The report should give in detail the manner in which the plug back work was carried out, the extent (by depths) of cement plugs placed, and the size and location (by depths) of casing left in the well. Show date zone was plugged. After plugging back to a new zone submit a Completion Report (Form 3160-4) or via the AFMSS 2 WISx Module with the Subsequent Report. The plugged zone shall be in plug back status.

Include the following information:

- a. A well bore diagram with all perforations, CIBP's, and tops of cement on CIBP's.
  - b. A description of the plug back procedure.
  - c. A clear copy or the original of the pressure test chart.
  - d. A copy of any logs ran.
8. Trash: All trash, junk and other waste material shall be contained in trash cages or bins to prevent scattering and will be removed and deposited in an approved sanitary landfill. Burial on site is not permitted.
  9. If well location is within the Timing Limitation Stipulation Area for Lesser Prairie-Chicken:  
From March 1<sup>st</sup> through June 15<sup>th</sup> annually, abandonment activities will be allowed except between the hours from 3:00 am and 9:00 am. Normal vehicle use on existing roads will not be restricted.

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

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

CONDITIONS  
  
Action 342804

CONDITIONS

Operator: Empire New Mexico LLC 2200 S. Utica Place Tulsa, OK 74114	OGRID: 330679
	Action Number: 342804
	Action Type: [C-103] NOI Workover (C-103G)

CONDITIONS

Created By	Condition	Condition Date
kfortner	Like approval from BLM	5/13/2024