

Form 3160-5  
(June 2019)UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENTFORM APPROVED  
OMB No. 1004-0137  
Expires: October 31, 2021**SUNDRY NOTICES AND REPORTS ON WELLS**  
**Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.**

5. Lease Serial No. NMNM136235

6. If Indian, Allottee or Tribe Name

**SUBMIT IN TRIPLICATE - Other instructions on page 2**

1. Type of Well

☒ Oil Well ☐ Gas Well ☐ Other

2. Name of Operator AMEREDEV OPERATING LLC

3a. Address

2901 Via Fortuna, Ste. 600 Austin, TX 78746

3b. Phone No. (include area code)

737-300-4700

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

SEC 4/T26S/R36E/NMP

7. If Unit of CA/Agreement, Name and/or No.

8. Well Name and No. FIRETHORN FED COM 26 36 04/ 085H

9. API Well No. 3002550781

10. Field and Pool or Exploratory Area

LWR BONE SPRING (98150)

11. Country or Parish, State

LEA/NM

## 12. CHECK THE APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION				
<input checked="" 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"/> Alter Casing	<input type="checkbox"/> Hydraulic Fracturing	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity	
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input checked="" type="checkbox"/> Other	
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon		
<input type="checkbox"/> Final Abandonment Notice	<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 recompleat 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 performed 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 recompleat 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.)

Ameredev would like to request the following changes to the wellbore design:

- Change surface casing from 13.375" 68# J-55 BTC @ 1,433' to 13.375" 54.5# J-55 BTC @ 1,333'

- Change intermediate casing from 7.625" 29.7# HC L-80 FJM @ 10,438" to 10.75" 45.5# HC L-80 SC BTC @ 5,200'

Production casing and depth will remain per original design. See attached wellbore diagram.

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

CHRISTIE HANNA / Ph: (737) 300-4723

Senior Engineering Technician

Title

Signature

Christie Hanna

Date

06/14/2023

**THE SPACE FOR FEDERAL OR STATE OFFICE USE**

Approved by

CHRISTOPHER WALLS / Ph: (575) 234-2234 / Approved

Petroleum Engineer

Title

06/21/2023

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 CARLSBAD

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: NWNE / 230 FNL / 1715 FEL / TWSP: 26S / RANGE: 36E / SECTION: 4 / LAT: 32.0789481 / LONG: -103.2670957 ( TVD: 0 feet, MD: 0 feet )

PPP: NWSE / 2640 FSL / 1838 FEL / TWSP: 26S / RANGE: 36E / SECTION: 9 / LAT: 32.0578172 / LONG: -103.2677392 ( TVD: 10438 feet, MD: 18525 feet )

PPP: NWNE / 100 FNL / 1985 FEL / TWSP: 26S / RANGE: 36E / SECTION: 4 / LAT: 32.0793053 / LONG: -103.2679661 ( TVD: 10438 feet, MD: 10835 feet )

BHL: SWSE / 50 FSL / 1984 FEL / TWSP: 26S / RANGE: 36E / SECTION: 9 / LAT: 32.0506861 / LONG: -103.2679561 ( TVD: 10438 feet, MD: 21120 feet )

<b>Well Name:</b> FIRETHORN FED COM 26 36 04	<b>Well Location:</b> T26S / R36E / SEC 4 / NWNE /	<b>County or Parish/State:</b>
<b>Well Number:</b> 085H	<b>Type of Well:</b> OIL WELL	<b>Allottee or Tribe Name:</b>
<b>Lease Number:</b> NMNM136235	<b>Unit or CA Name:</b>	<b>Unit or CA Number:</b>
<b>US Well Number:</b> 3002550781	<b>Well Status:</b> Approved Application for Permit to Drill	<b>Operator:</b> AMEREDEV OPERATING LLC

Notice of Intent

**Sundry ID:** 2735733

<b>Type of Submission:</b> Notice of Intent	<b>Type of Action:</b> APD Change
<b>Date Sundry Submitted:</b> 06/14/2023	<b>Time Sundry Submitted:</b> 11:09
<b>Date proposed operation will begin:</b> 06/21/2023	

**Procedure Description:** Ameredev would like to request the following changes to the wellbore design: - Change surface casing from 13.375" 68# J-55 BTC @ 1,433' to 13.375" 54.5# J-55 BTC @ 1,333' - Change intermediate casing from 7.625" 29.7# HC L-80 FJM @ 10,438" to 10.75" 45.5# HC L-80 SC BTC @ 5,200' Production casing and depth will remain per original design. See attached wellbore diagram.

NOI Attachments

**Procedure Description**

Firethorn\_Fed\_Com\_26\_36\_04\_085H\_\_\_WBD\_REV\_20230613\_20230614104457.pdf

**County or Parish/State:**

Allottee or Tribe Name:

Unit or CA Number:

**Operator:** AMEREDEV  
OPERATING LLC



## **Ameredev Operating, LLC**

**Firethorn Fed Com 26-36-04 085H**

**API No. 30-025-50781**

**Lea, NM**

**Projected MD: 21,120'**

**Projected TVD: 10,438'**

## Firethorn Fed Com 26-36-04 085H

## Second Bone Spring | 2 Mile Lateral

County, St: Lea, NM

SHL: Section 4 , T26S , R36E

230' FNL, 1715' FEL

BHL: Section 9 , T26S , R36E

50' FSL, 1984' FEL

Wellhead: A - 13-5/8" 5M x 13-5/8" SOW

B - 13-5/8" 5M x 13-5/8" 5M

C - 13-5/8" 5M x 13-5/8" 5M

Tubing Spool: 7-1/16" 10M x 13-3/8" 5M

Xmas Tree: 2-9/16" 10M

Tubing: 3-1/2" L-80 6.5# 8rd EUE

Co. Well ID:

XXXXXX

AFE #:

2023-XXX

API #:

30-025-50781

Permit:

Federal

GL:

2,992'

Field:

Delaware

Rig:

H&amp;P 642

KB:

27.0'

Elevation:

3,019'

E-Mail:

drillingengineering@ameradev.com

Offsets:

General Notes	Hole Size	Casing & Cement	Geology	TVD	Mud Weight
Notify BLM prior to spud, running casing, cementing, and BOP testing Sundry to be sent before spud	17-1/2"	<u>Lead (100% OH excess)</u> 732 sx 12.8 ppg Class C Top of Lead @ 0'	Conductor	122'	
1500 psi Surface Casing Test Done by Spudder Rig		<u>Tail (100% OH excess)</u> 340 sx 14.8 ppg Class C Top of Tail @ 1033'			8.4 - 8.6 ppg FW
		13.375   54.5   J-55   BTC 0 - 1333	Rustler	1,308'	
	12-1/4"	<u>Stg 1 Lead (50% OH excess)</u> 476 sx 11 ppg Class C - Low Portland Top of Lead @ 0'	Salado	1,728'	
Stage 1 Designed to Circulate Cement to Surface		<u>Stg 1 Tail (50% OH excess)</u> 177 sx 14.8 ppg Class C Top of Tail @ 4450'			
DV Tool (Int) 3821		<u>Stg 2 Lead (50% OH excess)</u> 710 sx 12.8 ppg Class C - Low Portland Top of Lead @ 0'	Tansill	3,339'	10 ppg Brine
Casing Test to 1500 psi		<u>Stg 2 Tail (25% OH excess)</u> 106 sx 14.8 ppg Class C Top of Tail @ 3221'	Capitan	3,921'	
		10.75   45.5   HC L-80   SC BTC 0 - 5200	Lamar	5,075'	
FIT to 10.5 ppg EMW	7-7/8" Vertical		Bell Canyon	5,249'	
			Brushy Canyon	6,878'	9.0 - 9.5 ppg Cut Brine
			Bone Spring Lime	7,818'	
	7-7/8" Curve	<u>Lead (50% OH excess)</u> 2345 sx 10.6 ppg ProLite Top of Lead @ 0'			
12" DLS curve section Surveys: 45' Curve , 90' Lateral		<u>Tail (20% OH excess)</u> 3355 sx 14.5 ppg Class H - Premium PozMix Top of Tail @ 11120'			
		5.5   23   P-110   SFH 0 - 21120	First Bone Spring	9,389'	
LTP VS: 7639' 90° INC, 180.92° AZM			Second Bone Spring	9,938	9.0 - 9.5 ppg Cut Brine
BHL VS: 7689' 90° INC, 180.92° AZM	7-7/8" Lateral	5-1/2" marker jts @ ~9810', 16120' MD			
		21120' MD 10,438' TVD @ BHL 7,689' VS	No Casing Test		
		EOC 10835' MD 10438' TVD			

Firethorn Fed Com 26-36-04 085H Data Sheet											
Mud Properties											
Hole Size	Depth	Mud Type		Weight (ppg)	Funnel Viscosity (s/qt)	pH	API FL	LGS (%)	6 rpm	PV (cp)	YP (lb/100 flz)
17-1/2"	0 - 1333	FW / Native		8.4 - 8.6	28 - 36	< 8.0	NC	< 1	1	1 - 4	15 - 17
12-1/4"	1333 - 5200	Brine		10	28 - 32	> 10.5	NC	1 - 3	2	1 - 4	1 - 4
7-7/8"	5200 - 9955	Cut Brine		9.0 - 9.5	28 - 32	< 10.5	NC	< 1	1	1 - 4	1 - 4
7-7/8"	9955 - 21120	Cut Brine		9.0 - 9.5	OWB 1000 - 1500	8.5 - 9.0	API FL ≤ 12	< 1	8 - 10	14 - 25	WBS 2400 - 2700

Casing Data																
Depth	Size (in)	Grade	Weight (ppf)	Thread	ID (in)	Drift (in)		Cap (bbl / ft)	Collapse (psi)		Burst (psi)		Tension (1000 lb)		Comments	
									Rated	80%	Rated	80%	Rated	80%		
122	20	J-55	94	BTC	19.124	18.936		0.3553								
0 - 1333	13 3/8	J-55	54.5	BTC	12.615	12.459		0.1546	1130	904	2730	2184	853	682		
0 - 5200	10 3/4	HC L-80	45.5	SC BTC	9.950	9.875		0.0962	2940	2352	5210	4168	1040	832		
0 - 21120	0	0	0	0	0.000	0.000	0.0000	0	0	0	0	0	0			

Estimated Cement Program																	
Constants			Cement Variables							Cement Proposal						Excess	
Casing	Stages	Slurry	Volume (ss)	Feet of Cement	Top of Cement	% Excess Requested	Cement Grade	Weight (ppg)	Yield (ft <sup>3</sup> /sk)	Water (gal/sk)	Total Cement Volume (bbls)	Total Cement Volume (ft <sup>3</sup> )	Casing (bbls)	Open Hole (bbls)	Shoe Track Volume (bbls)	Total Volume Needed (bbls)	Total Excess (bbls)
13 3/8	1Stage	Lead	732	1033'	0'	100%	Class C	12.8	1.900	10.22	247.6	1390.0	22.1	112.7		135	113
		Tail	340	300	1033'	100%	Class C	14.8	1.340	6.37	81.2	455.8		37.1	7.0	44	37
10-3/4"	1Stage	Lead	476	4450	0'	100%	Class C - Low Portland	11.0	3.130	11.52	265.4	1489.9	56.4	104.5		161	104
		Tail	177	750	4450'	50%	Class C	14.8	1.330	6.33	42.0	236.0		25.1	4.3	29	13
	2 Stage (DV Tool)	Stg 1 Lead	469	4450	0'	50%	Class C - Low Portland	11.0	3.130	10.44	261.4	1467.7		174.3		174	87
		Stg 1 Tail	177	750	4450'	50%	Class C	14.8	1.330	6.33	42.0	236.0		25.1	4.3	29	13
		Stg 2 Lead	710	3221	0'	50%	Class C - Low Portland	12.8	1.830	10.44	231.3	1298.4	136.3	63.3		200	32
		Stg 2 Tail	106	600	3221'	25%	Class C	14.8	1.330	6.33	25.1	141.1		20.1		20	5
7-7/8"	1Stage	Lead	2345	11120	0'	50%	ProLite	10.6	3.810	21.14	1591.4	8934.9	500.1	560.8		1061	530
		Tail	3355	10000	11120'	20%	Class H - Premium PozMix	14.5	1.210	5.33	722.9	4059.0		602	0.0	602	120



**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 231078

CONDITIONS

Operator: AMEREDEV OPERATING, LLC 2901 Via Fortuna Austin, TX 78746	OGRID: 372224
	Action Number: 231078
	Action Type: [C-103] NOI Change of Plans (C-103A)

CONDITIONS

Created By	Condition	Condition Date
pkautz	None	6/22/2023