

Well Name: APACHE	Well Location: T24N / R4W / SEC 3 / NENW /	County or Parish/State: RIO ARRIBA / NM
Well Number: 156	Type of Well: OIL WELL	Allottee or Tribe Name: JICARILLA APACHE
Lease Number: JIC127	Unit or CA Name:	Unit or CA Number:
US Well Number: 300392393000S1	Well Status: Producing Oil Well	Operator: ENERVEST OPERATING LLC

Notice of Intent

Sundry ID: 2641325

Type of Submission: Notice of Intent

Date Sundry Submitted: 10/22/2021

Date proposed operation will begin: 02/15/2022

Type of Action: Plug and Abandonment

Time Sundry Submitted: 12:42

Procedure Description: Enervest Operating, LLC would like to plug and abandon this well per the attached procedure. The reclamation plan is also attached.

Surface Disturbance

Is any additional surface disturbance proposed?: No

NOI Attachments

Procedure Description

- Apache_156_3003923930_reclamation_plan_20211022124207.pdf
- Apache_156_3003923930_pa_procedure_20211022124206.pdf
- Apache_156_3003923930_wellbore_20211022124206.pdf

Well Name: APACHE	Well Location: T24N / R4W / SEC 3 / NENW /	County or Parish/State: RIO ARRIBA / NM
Well Number: 156	Type of Well: OIL WELL	Allottee or Tribe Name: JICARILLA APACHE
Lease Number: JIC127	Unit or CA Name:	Unit or CA Number:
US Well Number: 300392393000S1	Well Status: Producing Oil Well	Operator: ENERVEST OPERATING LLC

Conditions of Approval

Additional Reviews

General_Requirement_PxA_20211215164638.pdf
2641325_NOIA_156_3003923930_KR_12152021_20211215164559.pdf
24N04W03CKd_Apache_156_20211215162809.pdf

Operator Certification

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 submission of Form 3160-5 or a Sundry Notice.

Operator Electronic Signature: AMY ARCHULETA	Signed on: OCT 22, 2021 12:42 PM
Name: ENERVEST OPERATING LLC	
Title: Regulatory Supervisor	
Street Address: 2700 FARMINGTON AVE., BLDG K SUITE 1	
City: FARMINGTON	State: NM
Phone: (505) 325-0318	
Email address: AARCHULETA@HIGHRIVERLLC.COM	

Field Representative

Representative Name:		
Street Address:		
City:	State:	Zip:
Phone:		
Email address:		

BLM Point of Contact

BLM POC Name: KENNETH G RENNICK	BLM POC Title: Petroleum Engineer
BLM POC Phone: 5055647742	BLM POC Email Address: krennick@blm.gov
Disposition: Approved	Disposition Date: 12/15/2021
Signature: Kenneth Rennick	

PLUG AND ABANDONMENT PROCEDURE

10/01/21

Apache 156 Jicarilla 127

West Lindrith – Gallup Dakota

645' FNL, 2225' FWL, Section 3, T24N, R4W, Rio Arriba County, New Mexico

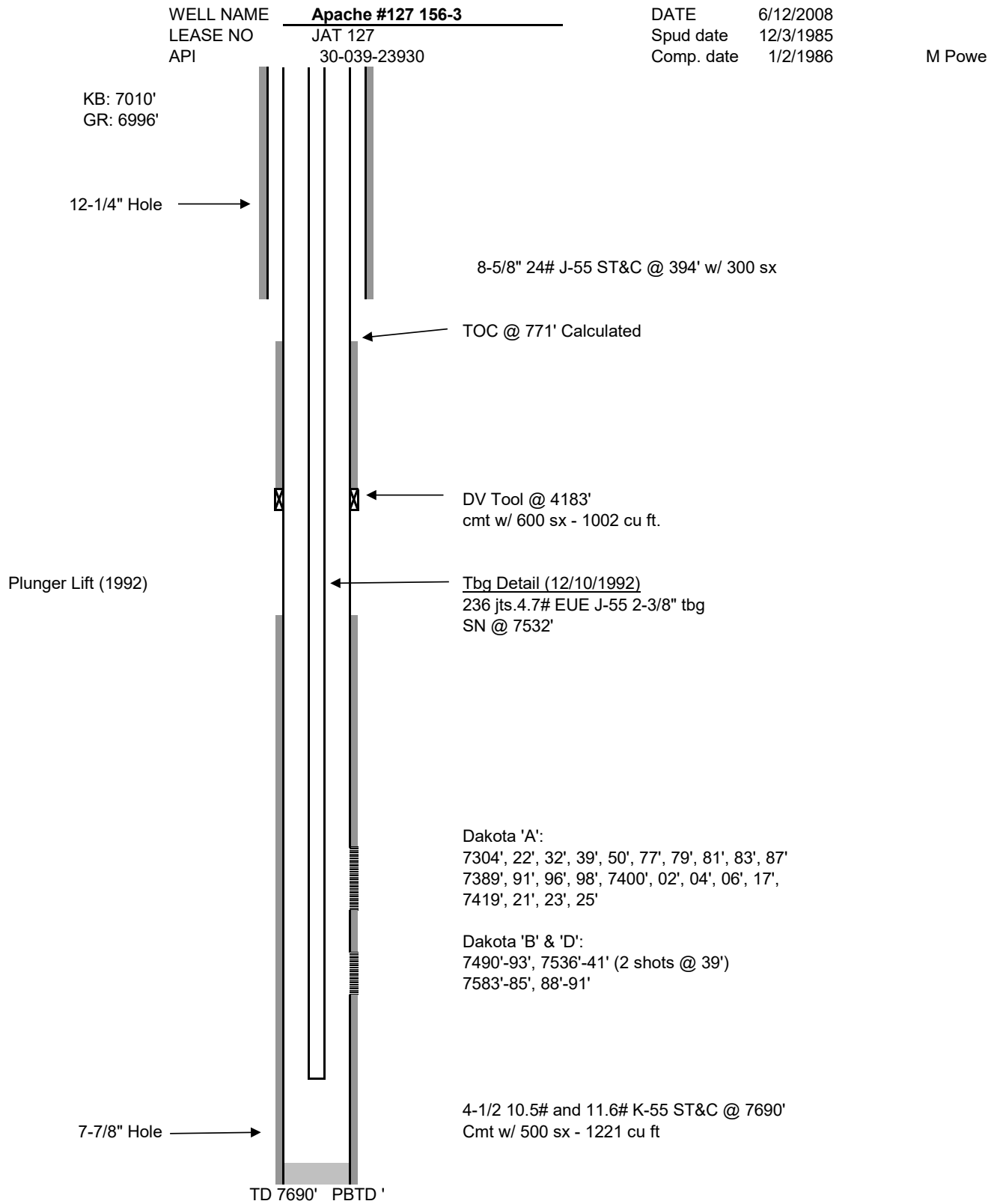
API 30-039-23930

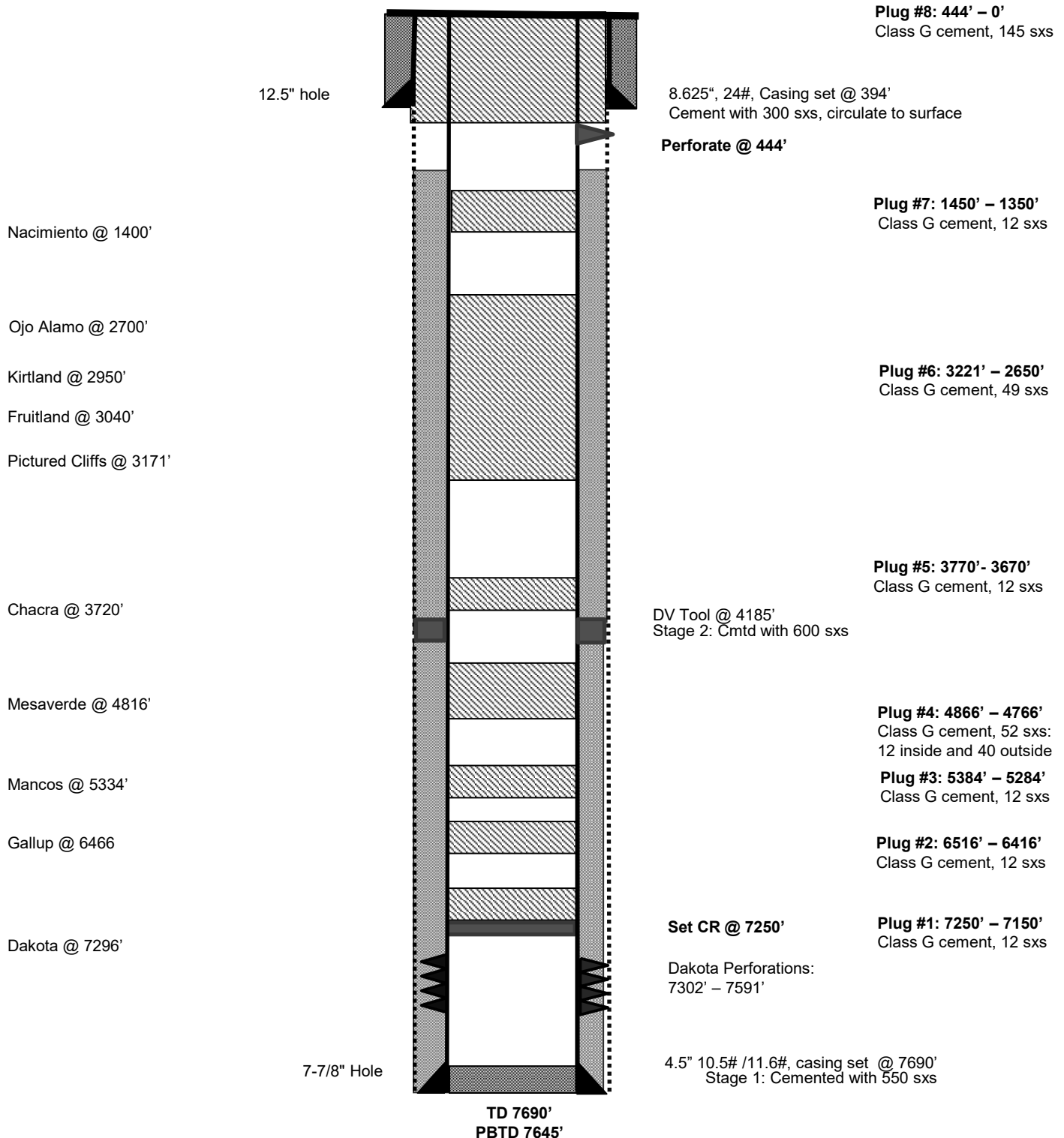
Note: All cement volumes use 100% excess outside pipe and 50' excess inside. The stabilizing wellbore fluid will be 8.3 ppg, sufficient to balance all exposed formation pressures. All cement will be Class G, mixed at 15.8 ppg with a 1.15 cf/sx yield.

1. This project will use an A-Plus steel tank to handle waste fluids circulated from the well and cement wash up.
2. Install and test location rig anchors. Comply with all NMOCD, BLM, and Operator safety regulations. MOL and RU daylight pulling unit. Conduct safety meeting for all personnel on location. Record casing, tubing and bradenhead pressures. NU relief line and blow down well. Kill well with water as necessary and at least pump tubing capacity of water down the tubing. ND wellhead and NU BOP. Function test BOP.
3. **Plug #1 (Dakota perforations and top, 7250' – 7150')**: R/T 4.5" gauge ring or mill to 7250' or as deep as possible. RIH and set 4.5" CR at 7250'. Pressure test tubing to 1000#. Attempt to pressure test casing to 800#. If casing does not test then spot or tag subsequent plugs as necessary. Mix and pump 12 sxs Class G cement and spot a balanced plug inside casing to isolate the Dakota interval. PUH.
4. **Plug #2 (Gallup top, 6516' – 6416')**: Mix and pump 12 sxs Class G cement and spot a balanced plug inside casing to cover the Gallup top. PUH.
5. **Plug #3 (Mancos top, 5384' – 5284')**: Mix and pump 12 sxs Class G cement and spot a balanced plug inside casing to cover the Mancos top. PUH.
6. **Plug #4 (Mesaverde top, 4866' – 4766')**: Mix and pump 12 sxs Class G cement and spot a balanced plug inside casing to cover the Mesaverde top. PUH.
7. **Plug #5 (Chacra top, 3770' – 3670')**: Mix and pump 12 sxs Class G cement and spot a balanced plug inside casing to cover the Chacra top. PUH.
8. **Plug #6 (Pictured Cliffs, Fruitland, Kirtland and Ojo Alamo tops, 3221' - 2650)**: Mix and pump 49 sxs Class G cement and spot a balanced plug inside casing to cover PC through the Ojo Alamo top. TOH.
9. **Plug #6 (Nacimiento top, 1450' – 1350')**: Mix and pump 49 sxs Class G cement and spot a balanced plug inside casing to cover PC through the Ojo Alamo top. TOH.
10. **Plug #7 (8-5/8" Surface casing shoe and Surface, 444' - Surface)**: Perforate 4 squeeze holes at 431'. Establish circulation out bradenhead with water and circulate the BH annulus clean. Mix

approximately 145 sxs Class G cement and pump down the 4.5" casing to circulate good cement out bradenhead. Shut in well and WOC.

11. 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 cut off anchors. Restore location per BLM stipulations



Apache 156 Jicarilla 127**Proposed P&A****West Lindrith – Gallup Dakota**Today's Date: **10/01/21****645' FNL, 2225' FWL, Section 3, T-24-N, R-4-W,****Rio Arriba County, NM API #30-039-23930**

BLM FLUID MINERALS P&A Geologic Report

Date Completed: 12/15/2021

Well No. Apache #156 (API# 30-039-23930)	Location	645	FNL	&	2225	FWL
Lease No. Jicarilla Contract 127	Sec. 03	T24N			R04W	
Operator EnerVest Operating, LLC	County	Rio Arriba		State	New Mexico	
Total Depth 7690'	PBTD 7645'	Formation Dakota				
Elevation (GL) 6996'		Elevation (KB) 7010'				

Geologic Formations	Est. Top	Est. Bottom	Log Top	Log Bottom	Remarks
San Jose Fm			Surface	1210	Surface/freshwater sands
Nacimiento Fm			1210	2635	Freshwater sands
Ojo Alamo Ss			2635	2844	Aquifer (possible freshwater)
Kirtland Shale			2844	2980	
Fruitland Fm			2980	3171	Coal/Gas/Possible water
Pictured Cliffs Ss			3171	3290	Gas
Lewis Shale			3290	4040	
Chacra			4040	4816	Gas
Cliff House Ss			4816	4890	Water/Possible gas
Menefee Fm			4890	5334	Coal/Ss/Water/Possible O&G
Point Lookout Ss			5334	5530	Probable water/Possible O&G
Mancos Shale			5530	6466	
Gallup			6466	7296	O&G/Water
Greenhorn			7296	7358	
Graneros Shale			7358	7375	
Dakota Ss			7375	PBTD	O&G/Water

Remarks:

P & A

Reference Well:

1) **Formation Tops**
Same

- BLM formation top picks for the Dakota, Graneros, Greenhorn, Mancos, Chacra, Fruitland, Kirtland, Ojo Alamo and Nacimiento vary from Operator submission.

- No CBL on file.

- Adjust Plug #3 (Mancos) to cover BLM formation top pick at 5530'.

- Adjust Plug #5 (Chacra) to cover BLM formation top pick at 4040'.

- Bring the top of Plug #6 (Pictured Cliffs, Fruitland, Kirtland and Ojo Alamo) up to 2585' to cover BLM formation top pick for the Ojo Alamo.

- Adjust Plug #7 (Nacimiento) to cover BLM formation top pick at 1210'.

- The plugs proposed in the P&A procedure, with changes recommended above, will adequately protect any freshwater sands in this well bore.

- Dakota perms 7302' – 7591'.

Prepared by: Chris Wenman

**UNITED STATES DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
FARMINGTON DISTRICT OFFICE
6251 COLLEGE BLVD.
FARMINGTON, NEW MEXICO 87402**

Attachment to notice of
Intention to Abandon

Re: Permanent Abandonment
Well: Apache 156

CONDITIONS OF APPROVAL

1. Plugging operations authorized are subject to the attached "General Requirements for Permanent Abandonment of Wells on Federal and Indian Lease."
2. The following modifications to your plugging program are to be made:
 - a) Plug 3 (Mancos): Adjust to cover BLM formation top pick at 5530 feet.
 - b) Plug 5 (Chacra): Adjust to cover BLM formation top pick at 4040 feet.
 - c) Plug 6 (Pictured Cliffs, Fruitland, Kirtland, and Ojo Alamo): Bring the top up to 2585 feet to cover BLM formation top pick for the Ojo Alamo.
 - d) Plug 7 (Nacimiento): Adjust to cover the BLM formation top pick at 1210 feet.
3. Farmington Office is to be notified at least 24 hours before the plugging operations commence (505) 564-7750.

You are also required to place cement excesses per 4.2 and 4.4 of the attached General Requirements.

Office Hours: 7:45 a.m. to 4:30 p.m.

K. Rennick 12/15/2021

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 67676

CONDITIONS

Operator: High River Resources Operating, LLC 2700 Farmington Ave FARMINGTON, NM 87401	OGRID: 328985
	Action Number: 67676
	Action Type: [C-103] NOI Plug & Abandon (C-103F)

CONDITIONS

Created By	Condition	Condition Date
kpickford	CBL required	12/21/2021
kpickford	Adhere to BLM approved plugs and COAs. See GEO Repor	12/21/2021
kpickford	Notify NMOCD 24 Hours Prior to beginning operations	12/21/2021