

Well Name: JICARILLA CONTRACT 148	Well Location: T25N / R5W / SEC 14 / SESW / 36.394796 / -107.332956	County or Parish/State: RIO ARRIBA / NM
Well Number: 16	Type of Well: CONVENTIONAL GAS WELL	Allottee or Tribe Name: JICARILLA APACHE
Lease Number: JIC148	Unit or CA Name:	Unit or CA Number:
US Well Number: 3003905975	Well Status: Producing Gas Well	Operator: ENERVEST OPERATING LLC

Notice of Intent

Sundry ID: 2630915

Type of Submission: Notice of Intent	Type of Action: Plug and Abandonment
Date Sundry Submitted: 08/26/2021	Time Sundry Submitted: 01:08
Date proposed operation will begin: 11/10/2021	

Procedure Description: See attached Plugging procedure and reclamation plan.

Surface Disturbance

Is any additional surface disturbance proposed?: No

NOI Attachments

- Procedure Description**
- Jic_148_016_03905975_PA_procedure_20210831090751.pdf
 - Jic_148_016_03905975_ReclamationPlan_20210831090749.pdf
 - Jic_148_016_03905975__proposed_PA_20210831090749.pdf

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Conditions of Approval

Additional Reviews

2630915_NOIA_148_16_3003905975_KR_12012021_20211201102924.pdf

General_Requirement_PxA_20211201102856.pdf

25N05W14NKIs_Jicarilla_Contract_148_16_20211201084632.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: AUG 31, 2021 09:08 AM
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: 12/01/2021
Signature: Kenneth Rennick	

PLUG AND ABANDONMENT PROCEDURE

3/23/2021

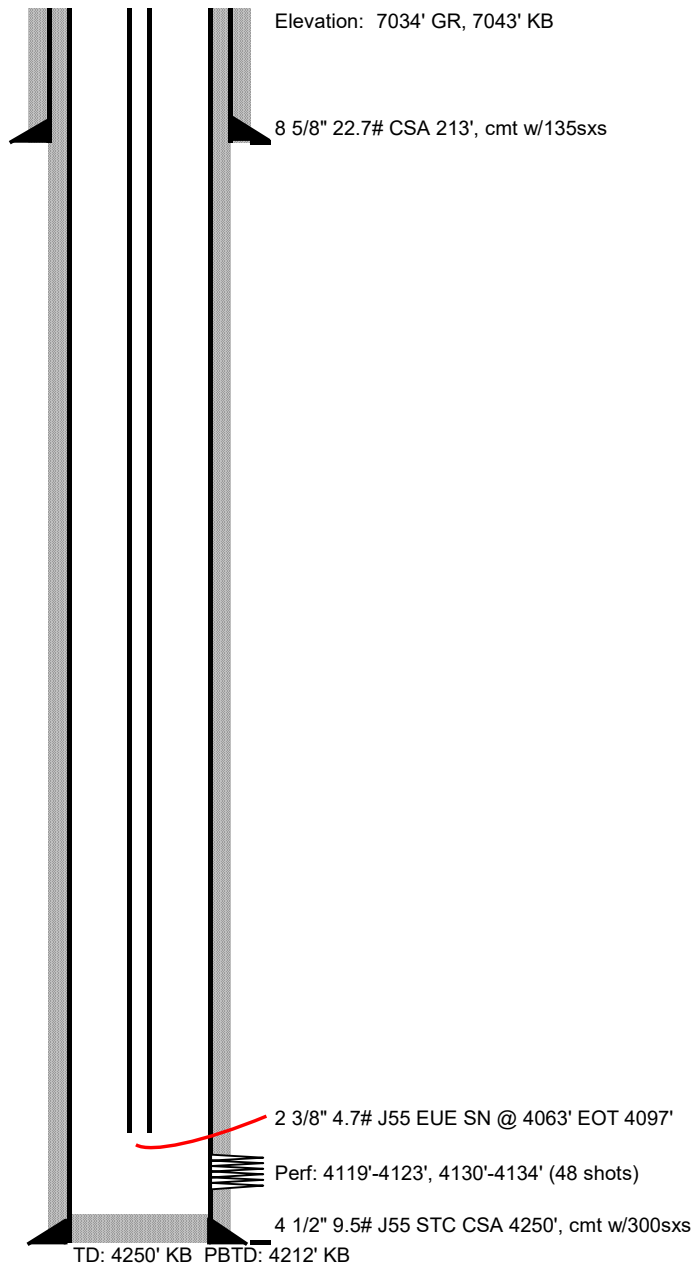
Apache 148 No. 16

790' FSL, 1550' FWL, Section 14, T25N, R5W, Rio Arriba County, New Mexico

API 30-039-05975 / Long _____ / _____

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 (Chacra perforations and top, 4069' - 3969')**: R/T 4.5" gauge ring or mill to 4250'. RIH and set 4.5" CR at 4069'. 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 Chacra interval. TOH.
4. **Plug #2 (Pictured Cliffs and Fruitland tops, 3270' - 2990')**: Perforate squeeze holes at 3270'. Establish injection rate. RIH and set 4.5" CR @ 3220'. Mix and pump 140 sxs Class G cement, squeeze 111 sxs outside casing and leave 29 sxs inside to cover the Pictured Cliffs and Fruitland tops. TOH.
5. **Plug #3 (Kirtland and Ojo Alamo tops, 2813' - 2627')**: Perforate squeeze holes at 2813'. Establish injection rate. RIH and set 4.5" CR @ 2763'. Mix and pump 122 sxs Class G cement, squeeze 74 sxs outside casing and leave 19 sxs inside to cover the Kirtland and Ojo Alamo tops. TOH.
6. **Plug #4 (Nacimiento top, 1392' - 1292')**: Perforate squeeze holes at 1392'. Establish injection rate. RIH and set 4.5" CR @ 1342'. Mix and pump 51 sxs Class G cement, squeeze 40 sxs outside casing and leave 12 sxs inside to cover the Nacimiento top. TOH.
7. **Plug #5 (8-5/8" Surface casing shoe and Surface, 263' - Surface)**: Perforate 4 squeeze holes at 263'. Establish circulation out bradenhead with water and circulate the BH annulus clean. Mix approximately 87 sxs Class G cement and pump down the 4.5" casing to circulate good cement out bradenhead. Shut in well and WOC.
8. 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

Jicarilla 148 No. 16

Location: 790' FSL, 1550' FWL, Sec 14, T25N, R5W, Rio Arriba County, New Mexico
Lse #: Jicarilla Contract #148

Field: Otero Chacra

API #: 30-039-05975

Spud Date: December 3, 1962

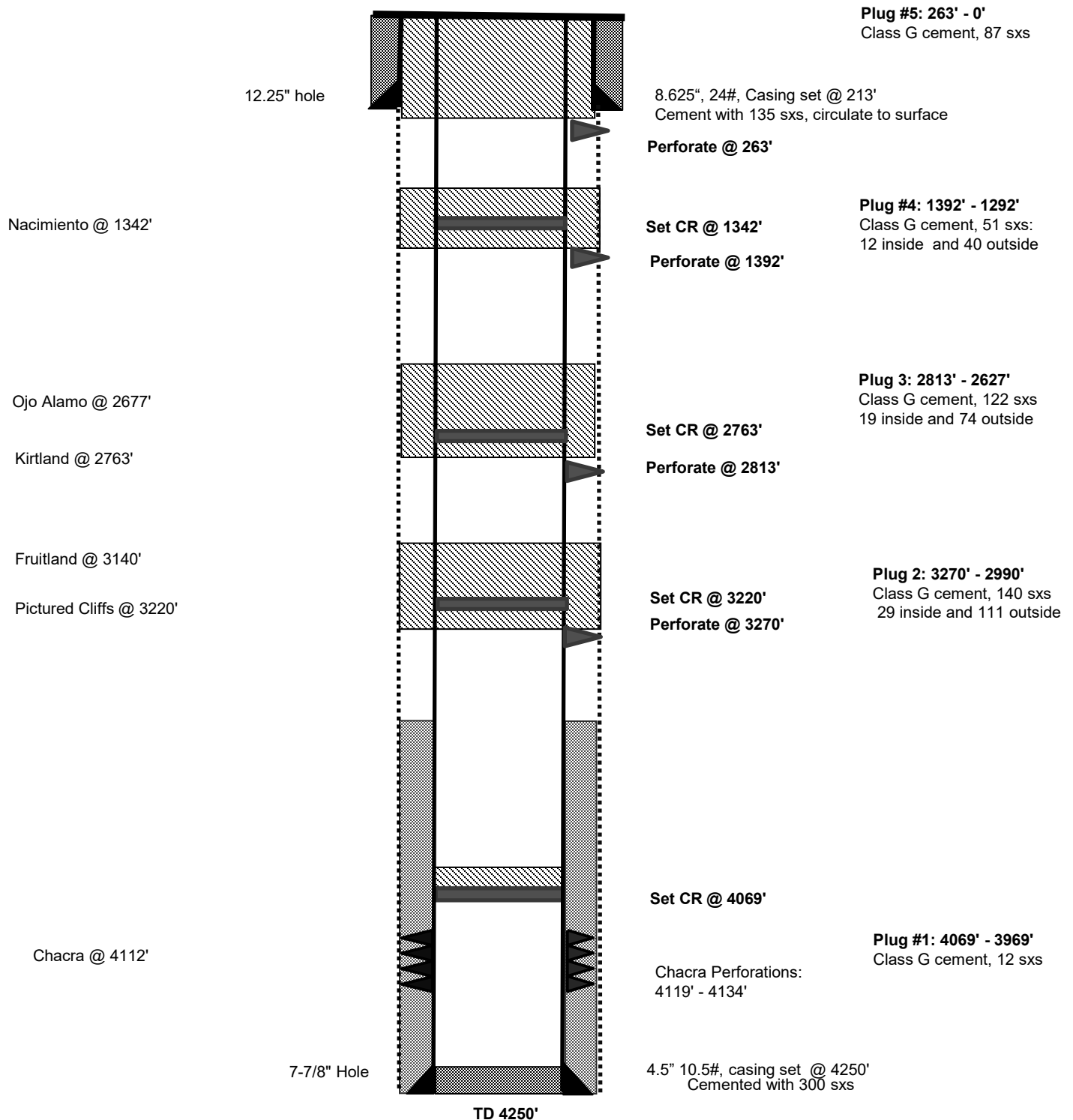
Frac: **4119'-4134'**: 12/14/62 38.3Kgal wt, 20K# 20-40 sn, 10K# 10-20 sn.

Michael Jost
12/17/2021

Apache 148 No. 16**Proposed P&A****Otero Chacra**

Today's Date: 3/23/2021

790' FSL, 1550' FWL, Section 14, T-25-N, R-5-W,
Rio Arriba County, NM API #30-039-05975



BLM FLUID MINERALS P&A Geologic Report

Date Completed: 12/01/2021

Well No. Jicarilla Contract 148 #16 (API# 30-039-05975)	Location	790	FSL	&	1550	FWL
Lease No. Jicarilla Contract 148	Sec. 14	T25N			R05W	
Operator EnerVest Operating, LLC	County	Rio Arriba		State	New Mexico	
Total Depth 4250'	PBTD 4212'	Formation Chacra Member (Lewis)				
Elevation (GL) 7043'		Elevation (KB) 7054'				

Geologic Formations	Est. Top	Est. Bottom	Log Top	Log Bottom	Remarks
San Jose Fm	Surface	1342			Surface/freshwater sands
Nacimiento Fm	1342	2677			Freshwater sands
Ojo Alamo Ss	2677	2863			Aquifer (freshwater)
Kirtland Shale	2863	3093			
Fruitland Fm	3093	3270			Coal/Gas/Possible water
Pictured Cliffs Ss	3270	3320			Gas
Lewis Shale	3320	4112			
Chacra	4112	PBTD			
Cliff House Ss					Water/Possible gas
Menefee Fm					Coal/Ss/Water/Possible O&G
Point Lookout Ss					Probable water/Possible O&G
Mancos Shale					
Gallup					O&G/Water
Greenhorn					
Graneros Shale					
Dakota Ss					O&G/Water

Remarks:

P & A

- Formation tops were estimated using logs from Reference Well #1 and well records from the subject well.
- BLM estimate for the Lewis, Pictured Cliffs and Fruitland formation tops vary from Operator submittal.

- No CBL on file.

- Bring the bottom of Plug #2 (Pictured Cliffs and Fruitland) down to 3320' to cover 50 feet below BLM estimate for the Pictured Cliffs formation top.

- Adjust the CR and bottom of Plug #3 (Kirtland and Ojo Alamo) to cover the BLM estimate for the Kirtland formation top at 2863'. 2863' is where the Kirtland was originally reported by the mud logger according to well records.

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

- Chacra perfs from 4119' – 4134'.

Reference Well:

1) Formation Tops

Amoco Production Co.
Jicarilla Contract 148 #10
810' FSL, 1720' FWL
Sec. 14, T25N, R05W
7044' (GL) 7055' (KB)

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: Jicarilla Contract 148 16

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. Farmington Office is to be notified at least 24 hours before the plugging operations commence (505) 564-7750.
3. The following modifications to your plugging program are to be made:
 - a. Plug 2 (Pictured Cliffs and Fruitland): Bring the bottom down to 3320 feet to cover 50 feet below BMM estimate for the Pictured Cliffs formation top. BLM formation top pick
 - b. Plug 3 (Kirtland and Ojo Alamo): Adjust the CR and the bottom of the plug to cover the BLM estimate for the Kirtland formation top at 2863 feet.

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 12/1/2021

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 67670

CONDITIONS

Operator: High River Resources Operating, LLC 2700 Farmington Ave FARMINGTON, NM 87401	OGRID: 328985
	Action Number: 67670
	Action Type: [C-103] NOI Plug & Abandon (C-103F)

CONDITIONS

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