Submit 1 Copy To Appropriate District Office
District I – (575) 393-6161
1625 N. French Dr., Hobbs, NM 88240
District II – (575) 748-1283
811 S. First St., Artesia, NM 88210
District III – (505) 334-6178
1000 Rio Brazos Rd., Aztec, NM 87410
District IV – (505) 476-3460
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy, Minerals and Natural Resources

OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-103
Revised July 18, 2013

WELL API NO. **30-039 21537**

5. Indicate Type of Lease STATE ☐ FEE ☐

6. State Oil & Gas Lease No. **FED Lease: JIC129**

SUNDRY NOTICES AND REPORTS ON WELLS
(DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.)

7. Lease Name or Unit Agreement Name: **Apache**

1. Type of Well: Oil Well ☐ Gas Well ☐ Other

8. Well Number **106**

2. Name of Operator: **Enervest Operating, LLC**

9. OGRID Number **143199**

3. Address of Operator: **2700 Farmington Ave Bld K Ste 1 Farmington NM 87401**

10. Pool name or Wildcat: **Lindrith Gallup DK West**

4. Well Location
Unit Letter **A** : **2040** feet from the **North** line and **945** feet from the **East** line
Section **01** Township **24N** Range **04W** NMPM County **Rio Arriba**

11. Elevation *(Show whether DR, RKB, RT, GR, etc.)* **7008'**

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

NOTICE OF INTENTION TO:				SUBSEQUENT REPORT OF:			
PERFORM REMEDIAL WORK	☐	PLUG AND ABANDON	☒	REMEDIAL WORK	☐	ALTERING CASING	☐
TEMPORARILY ABANDON	☐	CHANGE PLANS	☐	COMMENCE DRILLING OPNS.	☐	P AND A	☐
PULL OR ALTER CASING	☐	MULTIPLE COMPL	☐	CASING/CEMENT JOB	☐		
DOWNHOLE COMMINGLE	☐						
CLOSED-LOOP SYSTEM	☐						
OTHER:	☐			OTHER:			☐

13. Describe proposed or completed operations. (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work). SEE RULE 19.15.7.14 NMAC. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion.

Enervest Operating LLC would like to request permission to plug and abandon this well per the attached procedure. The BLM - FFO approval is also attached.

Spud Date: **01/09/1978** Rig Release Date:

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNATURE _____ TITLE **Regulatory** DATE **07/20/2023**

Type or print name **Amy Archuleta** E-mail address: **aarchuleta@highriverllc.com** PHONE: **505-325-0318**

For State Use Only

APPROVED BY: _____ TITLE _____ DATE _____
Conditions of Approval (if any):

PLUG AND ABANDONMENT PROCEDURE

7/12/23

Apache 126 #106
West Lindrith – Gallup Dakota
2040' FNL, 945' FEL, Section 1, T24N, R4W, Rio Arriba County, New Mexico
API 30-039-21537

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, 7440' – 7340'):** R/T 4.5" gauge ring or mill to 7440' or as deep as possible. RIH and set 4.5" CIBP or CR at 7440'. Pressure test tubing to 1000#. Mix and pump 16 sxs Class G cement (excess cement due to Gallup perforations) and spot a plug inside casing to isolate the Dakota interval. PUH and WOC. TIH and tag cement; top off if necessary.

4. **Plug #2 (Gallup perforations and top, 6500' – 6400'):** RIH and set 4.5" CIBP or CR @ 6500'. *Attempt to pressure test casing to 500#. 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 cover the Gallup top. TOH.

5. **Plug #3 (Mancos top, 5626' – 5526'):** Perforate squeeze holes @ 5626'. Establish injection rate. Set 4.5" CR @ 5576'. Mix and pump 52 sxs Class G cement; squeeze 40 sxs outside and leave 12 sxs inside casing to cover the Mancos top. TOH.

6. **Plug #4** (**Mesaverde top, 4980' – 4880'):** Perforate squeeze holes @ 4980'. Establish injection rate. Set 4.5" CR @ 4930'. Mix and pump 52 sxs Class G cement; squeeze 40 sxs outside and leave 12 sxs inside casing to cover the Mesaverde top. TOH.

7. **Plug #5 (Chacra top, 4175' – 4075'):** Mix and pump 12 sxs Class G cement inside to cover the Chacra top. PUH.

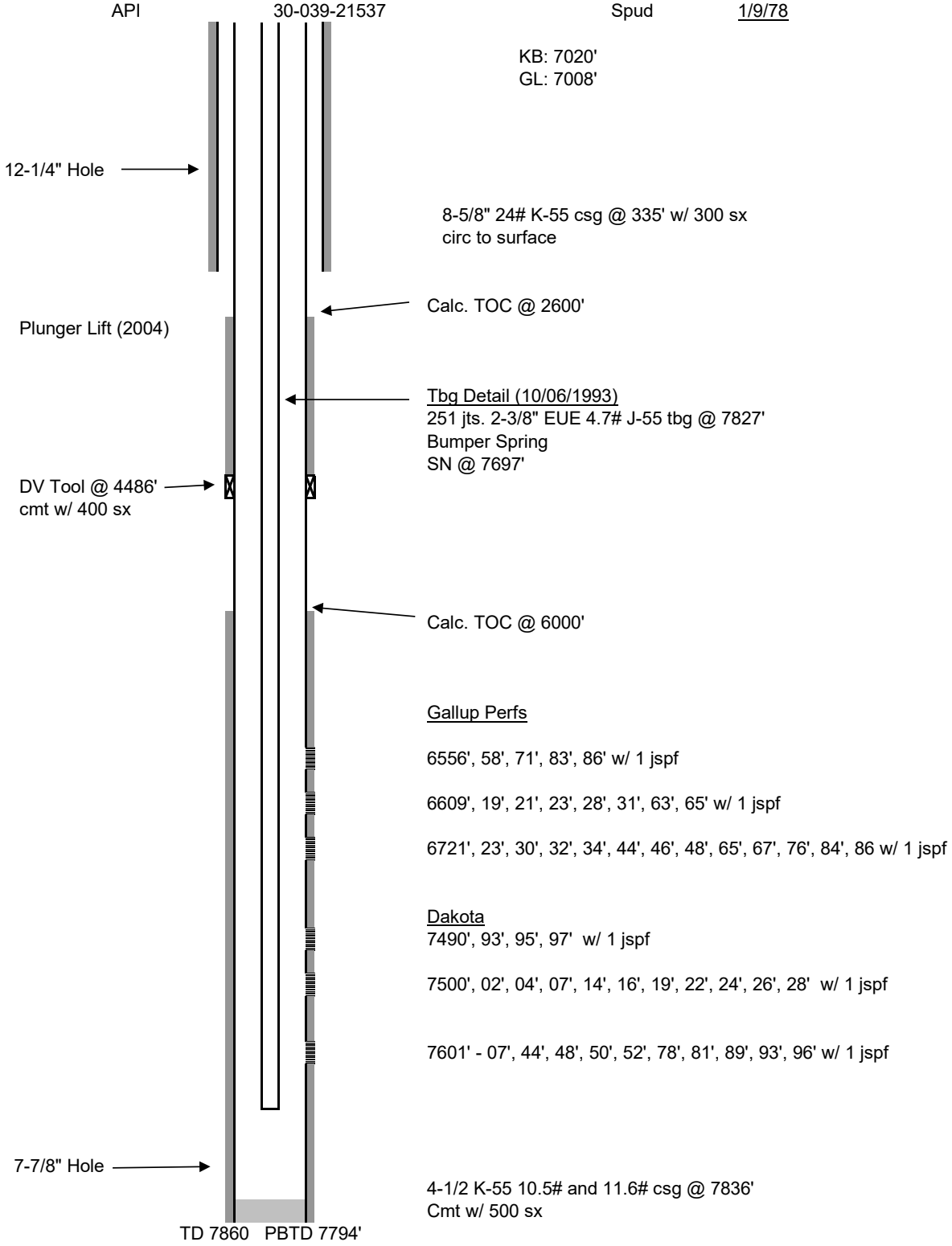
8. **Plug #6 (Pictured Cliffs, Fruitland, Kirtland and Ojo Alamo tops, 3309' – 2650'):** Mix and pump 56 sxs Class G cement and spot a balanced plug inside casing to cover PC through the Ojo Alamo top. TOH.

9. **Plug #7 (Nacimiento top, 1450' – 1350'):** Perforate squeeze holes at 1450'. Establish injection rate. RIH and set 4.5" CR @ 1400'. Mix and pump 52 sxs Class G cement, squeeze 40 sxs outside casing and leave 12 sxs inside to cover the Nacimiento top. TOH.

10. **Plug #8 (8-5/8" Surface casing shoe and Surface, 385' - Surface)**: Perforate 4 squeeze holes at 385'. Establish circulation out bradenhead with water and circulate the BH annulus clean. Mix approximately 125 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

WELL NAME **Apache #126 106-1** DATE 6/12/08
LEASE NO JAT 126 COMP 8/22/78
API 30-039-21537 Spud 1/9/78



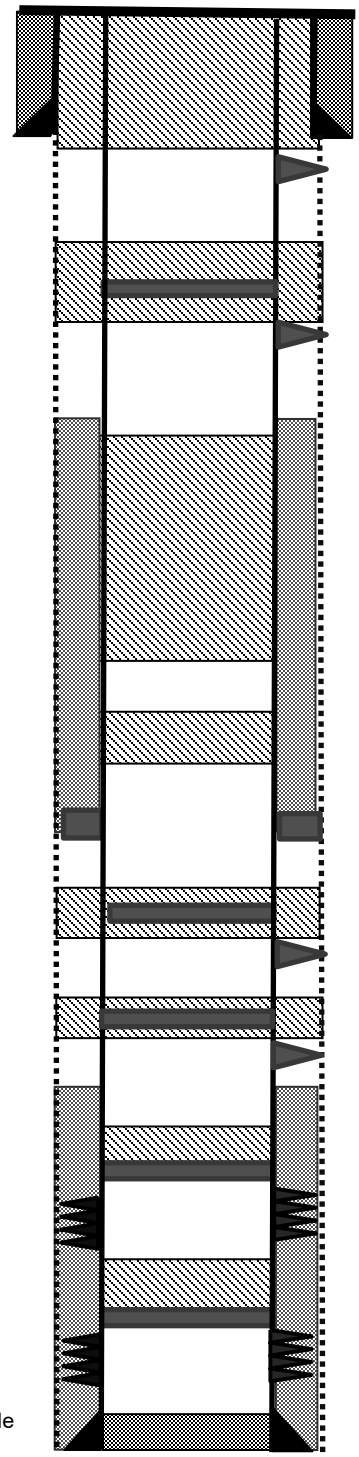
Jicarilla Apache 126 #106

Proposed P&A

West Lindrith – Gallup Dakota

Today's Date: **7/12/23**

2040' FNL, 945' FEL, Section 1, T-24-N, R-4-W,
Rio Arriba County, NM API #30-039-21537



Plug #8: 385' – 0'
Class G cement, 125 sxs

8.625", 24#, Casing set @ 335'
Cement with 300 sxs, circulate to surface

Perforate @ 385'

Plug #7: 1450' – 1350'
Class G cement, 52 sxs:
12 inside and 40 outside

Set CR @ 1400'

Perforate @ 1450'

Plug #6: 3309' – 2650'
Class G cement, 56 sxs

Plug #5: 4175' – 4075'
Class G cement, 12 sxs

DV Tool @ 4486'
Stage 2: Cmt'd with 400 sxs

Set CR @ 4930'

Perforate @ 4980'

Plug #4: 4980' – 4880'
Class G cement, 52 sxs:
12 sxs in / 40 sxs outside

Set CR @ 5576'

Perforate @ 5626'

Plug #3: 5626' – 5526'
Class G cement, 52 sxs:
12 sxs in / 40 sxs outside

Plug #2: 6500' – 6400'
Class G cement, 12 sxs

Set CIBP @ 6500'

Gallup Perforations:
6551'- 6783'

Plug #1: 7440' – 7340'
Class cement, 16 sxs
Excess cmt due to open perfs

Set CIBP @ 7440'

Dakota Perforations:
7490' – 7696'

4.5" 10.5# / 11.6# casing set @ 7836'
Stage 1: Cemented with 500 sxs

Well Name: APACHE

Well Location: T24N / R4W / SEC 1 / NENE / 36.3433624 / -107.2022189

County or Parish/State: RIO ARRIBA / NM

Well Number: 106

Type of Well: OIL WELL

Allottee or Tribe Name: JICARILLA APACHE

Lease Number: JIC126

Unit or CA Name:

Unit or CA Number:

US Well Number: 3003921537

Well Status: Gas Well Shut In

Operator: ENERVEST OPERATING LLC

Notice of Intent

Sundry ID: 2741527

Type of Submission: Notice of Intent

Type of Action: Plug and Abandonment

Date Sundry Submitted: 07/18/2023

Time Sundry Submitted: 11:01

Date proposed operation will begin: 08/01/2023

Procedure Description: Enervest Operating LLC would like to request to plug and abandon the above referenced well per the attached procedure.

Surface Disturbance

Is any additional surface disturbance proposed?: No

NOI Attachments

Procedure Description

Apache_126_106_current_WBD_07_18_2023_20230718110104.pdf

Apache_126_106_PA_Procedure_07_18_2023_20230718105850.pdf

Apache_106_03921537__Reclamation_Plan_20230718105850.pdf

Apache_126_106_Proposed_WBD_07_18_2023_20230718105850.pdf

Well Name: APACHE

Well Location: T24N / R4W / SEC 1 / NENE / 36.3433624 / -107.2022189

County or Parish/State: RIO ARRIBA / NM

Well Number: 106

Type of Well: OIL WELL

Allottee or Tribe Name: JICARILLA APACHE

Lease Number: JIC126

Unit or CA Name:

Unit or CA Number:

US Well Number: 3003921537

Well Status: Gas Well Shut In

Operator: ENERVEST OPERATING LLC

Conditions of Approval

Additional

PxA_24N04W01AKd_Apache_106_20230719135924.pdf

Authorized

General_Requirement_PxA_20230719161411.pdf

2741527_NOIA_106_3003921537_KR_07192023_20230719161342.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: AMY ARCHULETA

Signed on: JUL 18, 2023 10:59 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 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: 07/19/2023

Signature: Kenneth Rennick

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

AFMSS 2 Sundry ID 2741527

Attachment to notice of Intention to Abandon

Well: Apache 106

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 at (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 07/19/2023

GENERAL REQUIREMENTS FOR PERMANENT ABANDONMENT OF WELLS ON FEDERAL AND INDIAN LEASES FARMINGTON FIELD OFFICE

1.0 The approved plugging plans may contain variances from the following minimum general requirements.

1.1 Modification of the approved plugging procedure is allowed only with the prior approval of the Authorized Officer, Farmington Field Office.

1.2 Requirements may be added to address specific well conditions.

2.0 Materials used must be accurately measured. (densometer/scales)

3.0 A tank or lined pit must be used for containment of any fluids from the wellbore during plugging operations and all pits are to be fenced with woven wire. These pits will be fenced on three sides and once the rig leaves location, the fourth side will be fenced.

3.1 Pits are not to be used for disposal of any hydrocarbons. If hydrocarbons are present in the pit, the fluids must be removed prior to filling in.

4.0 All cement plugs are to be placed through a work string. Cement may be bull-headed down the casing with prior approval. Cement caps on top of bridge plugs or cement retainers may be placed by dump bailer.

4.1 The cement shall be as specified in the approved plugging plan.

4.2 All cement plugs placed inside casing shall have sufficient volume to fill a minimum of 100' of the casing, or annular void(s) between casings, plus an excess volume sufficient to provide for 50 linear feet of fill above the plug.

4.3 Surface plugs may be no less than 50' in length.

4.4 All cement plugs placed to fill annular void(s) between casing and the formation shall be of sufficient volume to fill a minimum of 100' of the annular space plus 100% excess, calculated using the bit size, or 100' of annular capacity, determined from a caliper log, plus an excess volume sufficient to provide for 50 linear feet of fill above the plug.

4.5 All cement plugs placed to fill an open hole shall be of sufficient volume to fill a minimum of 100' of hole, as calculated from a caliper log, plus an excess volume sufficient to provide for 50 linear feet of fill above the plug. In the absence of a caliper log, an excess of 100% shall be required.

4.6 **A cement bond log or other accepted cement evaluation tool is required to be run if one had not been previously ran or cement did not circulate to surface during the original casing cementing job or subsequent cementing jobs.**

5.0 All cement plugs spotted across, or above, any exposed zone(s), when; the wellbore is not full of fluid or the fluid level will not remain static, and in the case of lost circulation or partial returns during cement placement, shall be tested by tagging with the work string.

5.1 The top of any cement plug verified by tagging must be at or above the depth specified in the approved plan, without regard to any excess.

5.2 Testing will not be required for any cement plug that is mechanically contained by use of a bridge plug and/or cement retainer, if casing integrity has been established.

5.3 Any cement plug which is the only isolating medium, for a fresh water interval or a zone containing a prospectively valuable deposit of minerals, shall be tested by tagging.

5.4 If perforations are required below the surface casing shoe, a 30 minute minimum wait time will be required to determine if gas and/or water flows are present. If flow is present, the well will be shut-in for a minimum of one hour and the pressure recorded. Short or long term venting may be necessary to evacuate trapped gas. If only a water flow occurs with no associated gas, shut well in and record the pressures. Contact the Engineer as it may be necessary to change the cement weight and additives.

6.0 Before setting any cement plugs the hole needs to be rolled. All wells are to be controlled by means of a fluid that is to be of a weight and consistency necessary to stabilize the wellbore. This fluid shall be left in place as filler between all plugs.

6.1 Drilling mud may be used as the wellbore fluid in open hole plugging operations.

6.2 The wellbore fluid used in cased holes shall be of sufficient weight to balance known pore pressures in all exposed formations.

7.0 A blowout preventer and related equipment (BOPE) shall be installed and tested prior to working in a wellbore with any exposed zone(s); (1) that are over pressured, (2) where the pressures are unknown, or (3) known to contain H_2S.

8.0 Within 30 days after plugging work is completed, file a Sundry Notice, Subsequent Report of Abandonment (Form 3160-5), through the Automated Fluid Minerals Support System (AFMSS) with the Field Manager, Bureau of Land Management, 6251 College Blvd., Suite A, Farmington, NM 87402. The report should show the manner in which the plugging work was carried out, the extent, by depth(s), of cement plugs placed, and the size and location, by depth(s), of casing left in the well. Show date well was plugged.

9.0 All permanently abandoned wells are to be marked with a permanent monument as specified in 43 CFR 3162.6(d). Unless otherwise approved.

10.0 If this well is located in a Specially Designated Area (SDA), compliance with the appropriate seasonal closure requirements will be necessary.

All of the above are minimum requirements. Failure to comply with the above conditions of approval may result in an assessment for noncompliance and/or a Shut-in Order being issued pursuant to 43 CFR 3163.1. You are further advised that any instructions, orders or decisions issued by the Bureau of Land Management are subject to administrative review pursuant to 43 CFR 3165.3 and appeal pursuant to 43 CFR 3165.4 and 43 CFR 4.700.

BLM FFO Fluid Minerals
P&A Geologic Report

AFMSS ID: 2741527 **Date Completed:** 7/19/2023

Well No.	Apache #106	SHL	2040	FNL	945	FEL
API No.	3003921537		Unit A	Sec. 01	T24N	R04W
Lease No.	JIC126	BHL	Same			
Operator	Enervest Operating LLC					
Elev. (KB)	7020	County	Rio Arriba		State	NM
Total Depth	7860 PBTD 7794	Formation	Dakota/Gallup			

Formation Top	TVD (ft KB)	Remarks
San Jose Fm.	Surface	Surface/freshwater sands
Nacimiento Fm.	1400	Water
Ojo Alamo Ss	2740	Water
Kirtland Fm.	2940	
Fruitland Fm.	3080	Coal/gas/water
Pictured Cliffs Ss	3259	Possible gas
Lewis Shale	3403	
Chacra	4125	Possible gas
Cliff House Ss	4930	Possible gas
Menefee Fm.	4960	Coal/possible gas/freshwater sands
Point Lookout Fm.	5435	Possible gas/water
Mancos Shale	5576	Oil & gas
Gallup	6550	Oil & gas
Greenhorn Ls	7402	
Graneros Shale	7468	
Dakota Ss	7488	Oil & gas
Morrison Fm.		

Remarks:

- Dakota perfs 7490' - 7696'. Gallup perfs 6556' - 6786'.

Reference Well:

1) Formation Tops
Same

Prepared by: Chris Wenman

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 242469

CONDITIONS

Operator: High River Resources Operating, LLC 2700 Farmington Ave FARMINGTON, NM 87401	OGRID: 328985
	Action Number: 242469
	Action Type: [C-103] NOI Plug & Abandon (C-103F)

CONDITIONS

Created By	Condition	Condition Date
john.harrison	Accepted for record - NMOCD JRH 7/25/23. BLM approved P&A 7/19/23	7/25/2023