

Form 3160-5
(June 2015)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB NO. 1004-0137
Expires: January 31, 2018

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.
JIC127

6. If Indian, Allottee or Tribe Name
JICARILLA APACHE

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

SUBMIT IN TRIPLICATE - Other instructions on page 2

1. Type of Well
 Oil Well Gas Well Other

8. Well Name and No.
APACHE 154

2. Name of Operator
ENERVEST OPERATING LLC
Contact: AMY ARCHULETA
E-Mail: aarchuleta@highriverllc.com

9. API Well No.
30-039-23886-00-S1

3a. Address
1001 FANININ STREET SUITE 800
HOUSTON, TX 77002

3b. Phone No. (include area code)
Ph: 505-325-0318

10. Field and Pool or Exploratory Area
WEST LINDRITH

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
Sec 3 T24N R4W SWSE 990FSL 2310FEL

**NMOCD REC'D
12-4-20**

11. County or Parish, State
RIO ARRIBA COUNTY, NM

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
<i>MK</i> <input checked="" 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 checked="" 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 recomplete 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 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 determined that the site is ready for final inspection.

Enervest Operating, LLC has plugged and abandoned this well per the attached procedure.

14. I hereby certify that the foregoing is true and correct.

**Electronic Submission #537128 verified by the BLM Well Information System
For ENERVEST OPERATING LLC, sent to the Rio Puerco
Committed to AFMS for processing by JOE KILLINS on 12/02/2020 (20AMW0019SE)**

Name (Printed/Typed) AMY ARCHULETA

Title REGULATORY

Signature (Electronic Submission)

Date 11/11/2020

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By **ACCEPTED**

JOE KILLINS
Title PETROLEUM ENGINEER

Date 12/02/2020

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 Rio Puerco

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)

**** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED ****

Revisions to Operator-Submitted EC Data for Sundry Notice #537128

	Operator Submitted	BLM Revised (AFMSS)
Sundry Type:	ABD SR	ABD SR
Lease:	JIC127	JIC127
Agreement:		
Operator:	ENERVEST OPERATING, LLC 2700 FARMINGTON AVE BLD K SUITE 1 FARMINGTON, NM 87401 Ph: 505-325-0318	ENERVEST OPERATING LLC 1001 FANININ STREET SUITE 800 HOUSTON, TX 77002 Ph: 713.659.3500
Admin Contact:	AMY ARCHULETA REGULATORY SUPERVISOR E-Mail: aarchuleta@highriverllc.com Cell: 505-320-6917 Ph: 505-325-0318	AMY ARCHULETA REGULATORY E-Mail: aarchuleta@highriverllc.com Cell: 5053206917 Ph: 505-325-0318
Tech Contact:	AMY ARCHULETA REGULATORY SUPERVISOR E-Mail: aarchuleta@highriverllc.com Cell: 505-320-6917 Ph: 505-325-0318	AMY ARCHULETA REGULATORY E-Mail: aarchuleta@highriverllc.com Cell: 5053206917 Ph: 505-325-0318
Location:		
State:	NM	NM
County:	RIO ARRIBA	RIO ARRIBA
Field/Pool:	LINDRITH GALLUP DKTA;WEST	WEST LINDRITH
Well/Facility:	APACHE 154 Sec 3 T24N R04W SWSE 990FSL 2310FEL 36.334890 N Lat, 107.243310 W Lon	APACHE 154 Sec 3 T24N R4W SWSE 990FSL 2310FEL



EnerVest Operating, LLC
1001 Fannin St. Suite 800
Houston, TX 77002-6707

P.O. Box 1979, Farmington, NM 87499
(505) 325-2627

Name: Apache 127 #154-3
API:30-039-23886

Well Plugging Report

Work Detail

10/19/2020

Load supplies, Road Rig & Equip to LOC.
HSM on JSA.
Spot in RU Daylight Pulling Unit & Pump Truck.
Check PSI 2-3/8" TBG-10#, 4-1/2" CSG-600#, BH-100#, RU Relief Line, attempt to BD to Pit, Pump 50 BBL H2O Kill.
ND WH, Function Test & NU Bop, RU Work Floor & TBG Equip.
TOOH & Tally, 110 STDS, LD 6 JTS, 126 JTS total on LOC.
MU 4-1/2" TBG Set CR, TIH to 7021', set CR, load TBG W/ 21 BBL H2O, PSI Test to 1000# for 15 MINS good Test Verified & Approved by Leo Pacheco of BLM. S/O CR, load Well W/ 61 BBL H2O, CIRC 105 BBL total, saw good Returns @ Pit, attempt to PSI Test CSG to 600#, 80# Bleed Off in 5 MINS, no Test. Will need to WOC & Tag Plug #1.
Plug #1 Dakota PERFS & Top 7021'-6764' Mix & Pump 20 SXS, 15.8 PPG, 1.15 Yield, 23 CUFT, 4 BBL Slurry, Class G Cement, DISP W/ 25 BBL H2O.
LD 8 JTS, SB 60 STDS.
Secure Well & LOC.
Travel to Yard.

10/20/2020

Load supplies, travel to LOC.
HSM on JSA, service & start Equip.
Check PSI TBG-0, CSG-0, BH-0 PSI, open Well to Pit.
TOOH, LD Stinger.
RU Basin WL, RIH to 6768', run CBL, saw good Bond 6768'-5500' & 1600'-4180', POOH, LD Tool, RD WL. CBL sent to Joe Killins of BLM & Brandon Powell of NMOCD for review.
RU Pump Hose to CSG, attempt to PSI Test to 800#, 100# Bleed Off in 10 MINS, no Test, will need to WOC & Tag Plug #2.
MU Tag Sub, TIH, Tag Plug #1 @ 6768', good Tag, LD to next Plug.
Plug #2 Gallup Top 6315'-6058' Mix & Pump 20 SXS W/ 2% CC, 15.8 PPG, 1.15 Yield, 23 CUFT, 4 BBL Slurry, Class G Cement, DISP W/ 23 BBL H2O.
LD 8 JTS, SB 15 STDS.
Wait on Cement Sample to set.
TIH, Tag Plug #2 @ 6103', good Tag.
TOOH, LD Tag Sub.
Secure Well & LOC.
Travel to Yard.

10/21/2020

Load supplies, travel to LOC.
 HSM on JSA, service & start Equip.
 Check PSI TBG-N/A, CSG-0, BH-0 PSI, open Well to Pit. RU Pump Hose to CSG, Load Well W/ 12 BBL H2O, attempt to PSI Test CSG to 800#, BD to 500# in 10 MINS, no Test, will need to WOC & Tag Plug #3.
 RU Basin WL, RIH to 5312', shoot 4 Holes W/ 3-1/8" TAG Gun, POOH, LD Tool, check ROI 2 BPM @ 300#, RD WL.
 MU 4-1/2" TBG Set CR, TIH to 5262', set CR.
Plug #3 Mancos Top 5312'-5108' Mix & Pump 56 SXS W/ 2% CC, 15.8 PPG, 1.15 Yield, 64.4 CUFT, 11.4 BBL Slurry, Class G Cement, leaving 40 SXS in 4-1/2" X 7-7/8" OH, 4 SXS in 4-1/2" CSG below CR, 12 SXS in 4-1/2" CSG above CR, DISP W/ 19 BBL H2O, Final S/O Pressure 800#.
 LD 7 JTS, TOO, LD Stinger.
 Wait on Cement Sample to set.
 MU Tag sub, TIH, Tag Plug #3 @ 5062', good Tag, LD to next Plug.
 TOO, LD Tag Sub.
 Secure Well & LOC.
 Travel to Yard.

10/22/2020

Load supplies, travel to LOC.
 HSM on JSA, service & start equip.
 Check PSI TBG-N/A, CSG-0, BH-0 PSI, open Well to Pit.
 RU Basin WL, RIH to 4625', shoot 4 Holes W/ 3-1/8" TAG Gun, POOH, LD Tool, check ROI 1-1/2 BPM @ 800#, RD WL.
 MU 4-1/2" TBG Set CR, TIH to 4575', set CR. S/O, attempt to PSI Test CSG to 800#, BD to 600# in 5 MINS, no Test, will need to WOC & Tag Plug #4.
Plug #4 Mesaverde Top 4625'-4421' Mix & Pump 56 SXS W/ 2% CC, 15.8 PPG, 1.15 Yield, 64.4 CUFT, 11.4 BBL Slurry, Class G Cement, leaving 40 SXS in 4-1/2" X 7-7/8" OH, 4 SXS in 4-1/2" CSG below CR, 12 SXS in 4-1/2" CSG above CR, DISP W/ 17 BBL H2O, Final S/O Pressure 1000#.
 LD 6 JTS, TOO, LD Stinger.
 Wait on Cement Sample to set.
 MU Tag Sub, TIH, Tag Plug #4 @ 4447', good Tag, LD to next Plug, attempt to PSI CSG to 800#, BD to 600# in 5 MINS, no Test, will need to WOC & Tag Plug #5.
Plug #5 Chacra Top 3910'-3664' Mix & Pump 20 SXS W/ 2% CC, 15.8 PPG, 1.15 Yield, 23 CUFT, 4 BBL Slurry, Class G Cement, DISP W/ 14 BBL H2O.
 LD 8 JTS, SB 15 STDS.
 Wait on Cement Sample to set.
 TIH, Tag Plug #5 @ 3691', good Tag, LD to next Plug, attempt to PSI Test CSG to 800#, BD to 600# in 5 MINS, no Test, will need to WOC overnight & Tag in AM
Plug #6 Pictured Cliffs, Fruitland, Kirtland & Ojo Alamo Tops 2962'-2230' Mix & Pump 60 SXS, 15.8 PPG, 1.15 Yield, 69 CUFT, 12.2 BBL Slurry, Class G Cement, DISP W/ 8 BBL H2O.
 LD 24 JTS, SB 12 STDS.
 Secure Well & LOC.
 Travel to Yard.

10/23/2020

Load supplies. travel to LOC.
 HSM on JSA, service & start Equip.
 Check PSI TBG-0, CSG-0, BH-0 PSI, open Well to Pit.
 TIH, Tag Plug #6 @ 2191', good Tag, LD to next Plug, TOO, LD Tag Sub. RU Pump Hose to CSG, PSI Test CSG to 800# for 15 MINS, good Test Witnessed & Approved by Leo Pacheco of BLM.

RU Basin WL, RIH to 1140', shoot 4 Holes W/ 3-1/8" TAG Gun, POOH, LD Tool, check ROI 1-1/2 BPM @ 400#, RD WL.

MU 4-1/2" TBG Set CR, TIH to 1110', set CR.

Plug #7 Nacimiento Top 1140'-980' Mix & Pump 52 SXS, 15.8 PPG, 1.15 Yield, 59.8 CUFT, 10.6 BBL Slurry, Class G Cement, leaving 40 SXS in 4-1/2" X 7-7/8" OH, 2 SXS in 4-1/2" CSG below CR, 10 SXS in 4-1/2" CSG above CR, DISP W/ 3 BBL H2O, Final S/O Pressure 400#.

LD to next Plug, TOO, LD Stinger.

RU Basin WL, RIH to 443', shoot 4 Holes W/ 3-1/8" TAG Gun, POOH, LD Tool, check ROI 2 BPM @ 100#, RD WL.

TIH to 483'.

Plug #8 Surface 443'-0' Mix & Pump 140 SXS, 15.8 PPG, 1.15 Yield, 161 CUFT, 28.6 BBL Slurry, Class G Cement, saw good Cement Returns @ Pit Through both CSG & BH Valves.

LD Work String, RD Work Floor, ND BOP, NU WH.

Perform Hot Work Permit for WH Cut Off, cut off WH, TOC in 4-1/2" CSG @ 50', TOC in Annulus @ 7', install & weld DH Marker @ LAT 36.334731, LONG - 107.243338.

RD Daylight Pulling Unit.

Surface Top Off Mix & Pump, 16 SXS, 15.8 PPG, 1.15 Yield, 18.4 CUFT, 3.2 BBL Slurry, Class G Cement to cover Stump & Cellar.

RD Pump Truck, make Equip ready for Road.

Road Pump Truck & Equip to Yard.

10/19/2020
 P/A OPS Notified NMOCD & BLM prior to P/A Operations.

Plug #1 Dakota PERFS & Top 7021'-6764' Mix & Pump 20 SXS, 15.8 PPG, 1.15 Yield, 23 CUFT, 4 BBL Slurry, Class G Cement, DISP W/ 25 BBL H2O.

10/20/2020
 Plug #2 Gallup Top 6315'-6058' Mix & Pump 20 SXS W/ 2% CC, 15.8 PPG, 1.15 Yield, 23 CUFT, 4 BBL Slurry, Class G Cement, DISP W/ 23 BBL H2O.

10/21/2020
 Plug #3 Mancos Top 5312'-5108' Mix & Pump 56 SXS W/ 2% CC, 15.8 PPG, 1.15 Yield, 64.4 CUFT, 11.4 BBL Slurry, Class G Cement, leaving 40 SXS in 4-1/2" X 7-7/8" OH, 4 SXS in 4-1/2" CSG below CR, 12 SXS in 4-1/2" CSG above CR, DISP W/ 19 BBL H2O, Final S/O Pressure 800#.

10/22/2020
 Plug #4 Mesaverde Top 4625'-4421' Mix & Pump 56 SXS W/ 2% CC, 15.8 PPG, 1.15 Yield, 64.4 CUFT, 11.4 BBL Slurry, Class G Cement, leaving 40 SXS in 4-1/2" X 7-7/8" OH, 4 SXS in 4-1/2" CSG below CR, 12 SXS in 4-1/2" CSG above CR, DISP W/ 17 BBL H2O, Final S/O Pressure 1000#

P/A OPS Received Verbal Approval from Monica Khueling of NMOCD to Pump Balanced Plug to cover Chacra Top 3910'-3664' & Balanced Plug to cover Pictured Cliffs, Fruitland, Kirtland & Ojo Alamo Tops 2962'-2230' pending CBL.

Plug #5 Chacra Top 3910'-3664' Mix & Pump 20 SXS W/ 2% CC, 15.8 PPG, 1.15 Yield, 23 CUFT, 4 BBL Slurry, Class G Cement, DISP W/ 14 BBL H2O.

Plug #6 Pictured Cliffs, Fruitland, Kirtland & Ojo Alamo Tops 2962'-2230' Mix & Pump 60 SXS, 15.8 PPG, 1.15 Yield, 69 CUFT, 12.2 BBL Slurry, Class G Cement, DISP W/ 8 BBL H2O.

10/23/2020
 P/A OPS Received Verbal Approval from Joe Killins of BLM & Monica Khueling of NMOCD to move PERFS from 1160' up to 1140' to cover Nacimiento Top 1140'-980'.

Plug #7 Nacimiento Top 1140'-980' Mix & Pump 52 SXS, 15.8 PPG, 1.15 Yield, 59.8 CUFT, 10.6 BBL Slurry, Class G Cement, leaving 40 SXS in 4-1/2" X 7-7/8" OH, 2 SXS in 4-1/2" CSG below CR, 10 SXS in 4-1/2" CSG above CR, DISP W/ 3 BBL H2O, Final S/O Pressure 400#.

Plug #8 Surface 443'-0' Mix & Pump 140 SXS, 15.8 PPG, 1.15 Yield, 161 CUFT, 28.6 BBL Slurry, Class G Cement, saw good Cement Returns @ Pit Through both CSG & BH Valves.

Top Off Surface Top Off Mix & Pump, 16 SXS, 15.8 PPG, 1.15 Yield, 18.4 CUFT, 3.2 BBL Slurry, Class G Cement to cover Stump & Cellar.

On Site Reps:

Name	Association	Notes
Leo Pacheco	BLM	On Loc
Jeff Cross	Co. Rep.	On Loc
Rio #3	Other	On Loc

Apache 127 #154-3

As Plugged 10/3/20

West Lindrith – Gallup Dakota

**990' FSL, 2310' FEL, Section 3, T-24-N, R-4-W,
Rio Arriba County, NM API #30-039-23886**

Spud: 10/25/85
Completion: 12/3/85
Elevation: 6803' GR

12.25" hole

Nacimiento @ 1110'

Ojo Alamo @ 2330'

Kirtland @ 2601'

Fruitland @ 2785'

Pictured Cliffs @ 2912'

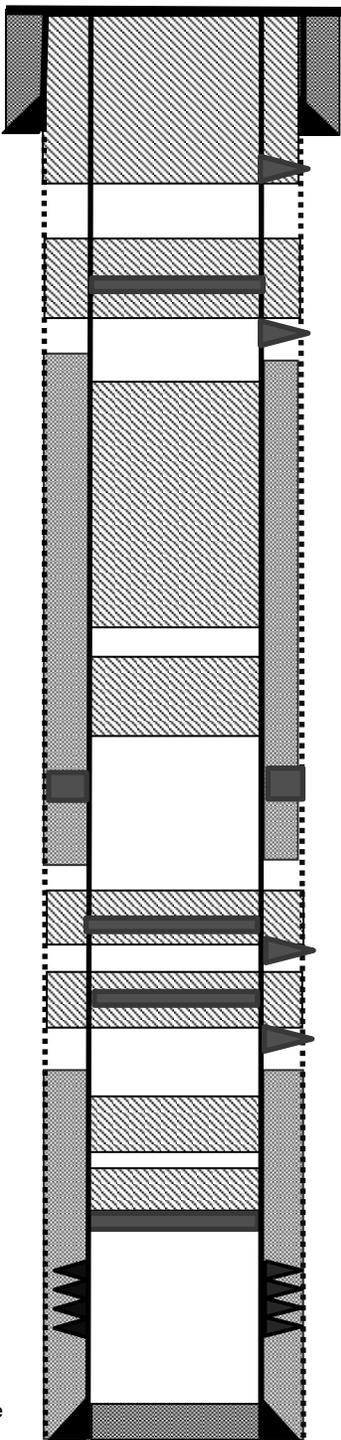
Chacra @ 3860'

Mesaverde @ 4575'

Mancos @ 5262'

Gallup @ 6180'
NMOCD
Gallup @ 6265' BLM

Dakota @ 7045'



**Top off surface w/16
sxs Class G cement**

Plug #8: 443' – 0'
Class G cement, 140 sxs

8.625", 24#, Casing set @ 393'
Cement with 275 sxs, circulate to surface

Perforate @443'

Set CR @ 1110'

Plug #7: 1140' - 980'
Class G cement, 52 sxs:
12 inside and 40 outside

Perforate @1140'

TOC @ 1600' (2020)

Plug #6: 2962' - 2230'
Class G cement, 60 sxs
Tag @ 2191'.

DV Tool @ 3984'
Stage 2: Cemented with 600 sxs

Plug #5: 3910' – 3664'
Class G cement, 20 sxs w/
2% CaCl2. Tag @ 3691'

Set CR @ 4575'
Perforate @ 4625'

Plug #4: 4625'- 4421'
Class G cement, 56 sxs
w/2% CaCl2. 44 sxs outside
and below and 12 sxs above
CR. Tag @ 4447'

Set CR @ 5262'
Perforate @ 5312'

Plug #3: 5312' – 5108'
Class G cement, 56 sxs
w/2% CaCl2. 44 sxs outside
and below and 12 sxs above
CR. Tag @ 5062'

TOC @ 5500' (2020)

Plug #2: 6315' – 6058'
Class G cement, 20 sxs
w/2% CaCl2. Tag @ 6103'

Set CR @ 7021'

Dakota Perforations:
7071' – 7342'

Plug #1: 7021' – 6764'
Class G cement, 20 sxs
Tagged TOC @ 6768'

4.5" 10.5#/11.6#, casing set @ 7405'
Stage 1: Cemented with 600 sxs

**TD 7405'
PBTD 7365'**

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 18471

CONDITIONS OF APPROVAL

Operator: ENERVEST OPERATING L.L.C. Suite 800 Houston, TX77002	1001 Fannin Street	OGRID: 143199	Action Number: 18471	Action Type: C-103P
OCD Reviewer mkuehling		Condition None		