

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

RECEIVED

MAY 02 2013

FORM APPROVED
OMB No. 1004-0137
Expires: March 31, 2007

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.

SUBMIT IN TRIPLICATE - Other Instructions on reverse side.

1. Type of Well <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other		5. Lease Serial No.
2. Name of Operator EnerVest Operating, LLC		6. If Indian, Allottee, or Tribe Name Jicarilla Apache Tribe
3a. Address 1001 Fannin St, Suite 800 Houston, TX 77002-6707	3b. Phone No. (include area code) 713-659-3500	7. If Unit or CA. Agreement Name and/or No.
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) 2000' FSL & 1900' FEL (UL J) Sec. 11 T24N R04W		8. Well Name and No. Apache #145
		9. API Well No. 30-039-23889
		10. Field and Pool, or Exploratory Area Lindreth Gallup-Dakota, West
		11. County or Parish, State Rio Arriba, NM

12. CHECK APPROPRIATE BOX(S) 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"/> Subsequent Report	<input type="checkbox"/> Altering Casing	<input type="checkbox"/> Fracture Treat	<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 recompleat horizontally, give subsurface locations and measured and true vertical depths or pertinent markers and sands. Attach the Bond under which the work will be performed or provide the Bond No. on file with the BLM/BIA. Required subsequent reports shall 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 shall be filed once testing has been completed. Final Abandonment Notice shall be filed only after all requirements, including reclamantion, have been completed, and the operator has determined that the site is ready for final inspection.)

EnerVest Operating, L.L.C. intends to Plug and Abandon this well by 6/30/13 if weather and rig availability permit. Please see the attached Plug and Abandonment Procedure.

A CBL is required to be submitted for review to the agencies prior to cementing.

RCVD MAY 7 '13
OIL CONS. DIV.
DIST. 3

Attachments: P&A proposed procedure, Current WBD, Proposed WBD.

14. I hereby certify that the foregoing is true and correct. Name (Printed/ Typed) Bart Trevino		Title Regulatory Analyst
Signature <i>[Signature]</i>		Date May 1, 2013

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by Original Signed: Stephen Mason	Title Office	Date MAY 03 2013
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.		

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 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)

NMOC D RV

PLUG AND ABANDONMENT PROCEDURE

Apache #145

W. Lindrith Gallup / Dakota
2000' FSL and 1900' FEL, Section 11, T24N, R4W
Rio Arriba County, New Mexico / API 30-039-23889

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 ASTM Class B, mixed at 15.6 ppg with a 1.18 cf/sx yield.

1. This project requires the Operator to obtain an approved NMOCD C-144 CLEZ Closed-Loop System Permit for the use of 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. Rods: Yes ☐, No ☒, Unknown ☐
Tubing: Yes ☒, No ☐, Unknown ☐, Size ☐ Length 7275' (w/TA)
Packer: Yes ☐, No ☒, Unknown ☐, Type ☐
If well has rods or a packer, then modify the work sequence in Step #2 as appropriate.
4. ⁶⁰⁶¹ **Plug #1 (Dakota / Gallup perforations and tops, 6194' – 6094')**: Round trip 4.5" gauge ring or casing scraper to 6194'. RIH and set 4.5" cement retainer at 6194'. Pressure test tubing to 1000 PSI. Load casing with water and circulate well clean. Pressure test casing. If casing does not test, spot or tag subsequent plugs as appropriate. Mix 12"sxs Class B cement and spot a balanced plug above CR to cover the Dakota / Gallup intervals. PUH.
6. ^{534 4514} **Plug #2 (Mancos / Mesaverde top, 5540' – 5086')**: Mix and pump 49 sxs Class B cement and spot a balanced plug inside casing to cover the Mancos and Mesaverde tops. PUH.
7. ^{3820 3720} **Plug #3 (Chacra top, 4392' – 4292')**: Perforate 3 squeeze holes at 4392'. Attempt to establish rate if the casing pressure tested. Set 4.5" cement retainer at 4342'. Establish rate into squeeze holes. Mix and pump 81 sxs Class B cement, squeeze 39 sxs outside 4.5" casing and leave 12 sxs inside casing to cover the Chacra top. PUH.
8. ²³⁸⁰ **Plug #4 (Pictured Cliff, Fruitland, Kirtland and Ojo Alamo tops, 2981' – 2398')**: Mix and pump 49 sxs Class B cement and spot a balanced plug inside casing to cover the Pictured Cliffs, Fruitland, Kirtland and Ojo Alamo tops. PUH.
9. ^{1105 1005} **Plug #5 (Nacimiento top, 1093' – 993')**: Mix and pump 12 sxs Class B cement and spot a balanced plug inside casing to cover the Nacimiento top. PUH.

10. **Plug #6 (8.625" casing shoe, 443' – 343'):** Mix and pump 12 sxs Class B cement and spot a balanced plug inside casing to cover the casing shoe. TOH and LD tubing.
11. **Plug #7 (8.625" casing shoe, 100' – 0'):** Perforate 3 HSC squeeze holes at 100'. Establish circulation to surface out the 4.5" casing and bradenhead valve, circulate the BH annulus clean. Mix approximately ~~12~~ sxs Class B cement and pump down the 4.5" casing to circulate good cement to the surface. Shut in well and WOC.
12. ND BOP and cut off wellhead below surface casing flange. Install P&A marker with cement to comply with regulations. RD, MOL and cut off anchors. Restore location per BLM stipulations.

Apache #145

Current

W. Lindrith Gallup / Dakota

2000' FSL, 1900' FEL, Section 11, T-24-N, R-4-W

Rio Arriba County, NM, API #30-039-23889

Today's Date: 3/27/13

Spud: 10/16/85

Completed: 12/3/85

Elevation: 6789' GL

6801' KB

12.25" hole

TOC @ 257' (Calc, 75%)

8.625" 24#, J-55 Casing set @ 393'
Cement with 250 sxs, circulated

2.375" tubing with SN at 7275'
(228 jts, TA)

Nacimiento @ 1043' *est

Ojo Alamo @ 2448' *est

Kirtland @ 2623' *est

Fruitland @ 2807' *est

Pictured Cliffs @ 2931'

DV Tool at 3998'
2nd Stage: Cement with 680 sxs (1136 cf)

Chacra @ 4342'

TOC @ 4618' (Calc, 75%)

Mesaverde @ 5136'

Mancos @ 5490'

Gallup @ 6190'

Gallup Perforations:
6244' – 6297'

Dakota @ 7072'

Dakota Perforations:
7103' – 7366'

4.5" 10.5#, 11.6# Casing set @ 7460'
1st Stage: Cement with 550 sxs (863 cf)

7.875" hole

TD 7460'
PBTD 7420'

Apache #145

Proposed P&A

W. Lindrith Gallup / Dakota

2000' FSL, 1900' FEL, Section 11, T-24-N, R-4-W
Rio Arriba County, NM, API #30-039-23889

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Ojo Alamo @ 2448' *est

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Fruitland @ 2807' *est

Pictured Cliffs @ 2931'

Chacra @ 4342'

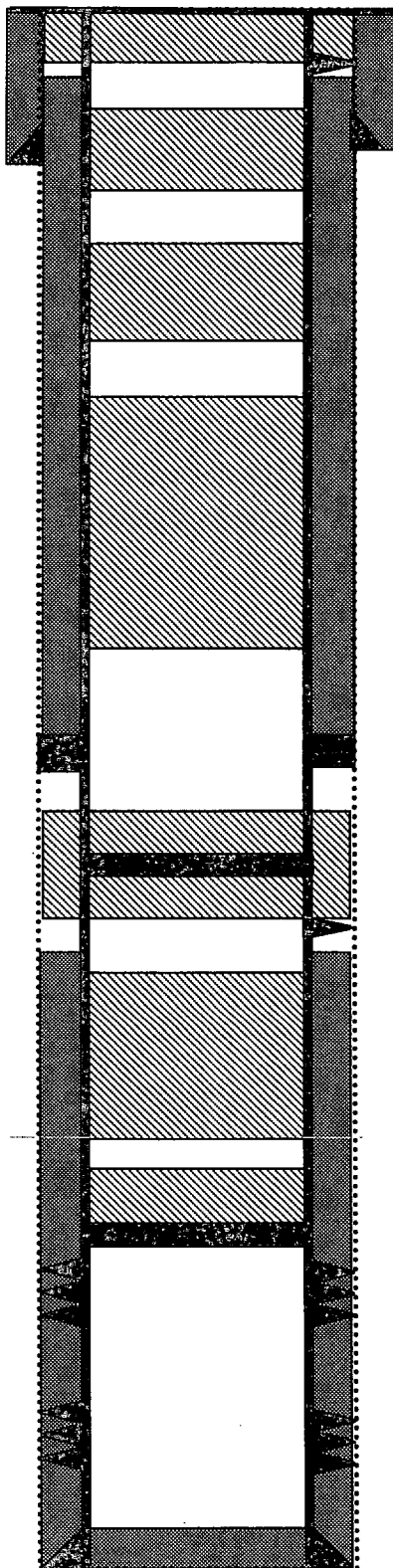
Mesaverde @ 5136'

Mancos @ 5490'

Gallup @ 6190'

Dakota @ 7072'

7.875" hole



TD 7460'
PBD 7420'

Perforate @ 100'

TOC @ 257' (Calc, 75%)

8.625" 24#, J-55 Casing set @ 393'
Cement with 250 sxs, circulated

Plug #7: 100' - 0'

Class B cement, 12 sxs

Plug #6: 443' - 343'

Class B cement, 12 sxs

Plug #5: 1093' - 993'

Class B cement, 12 sxs

Plug #4: 2981' - 2398'

Class B cement, 49 sxs

DV Tool at 3998'

2nd Stage: Cement with 680 sxs (1136 cf)

Set CR @ 4342'

Perforate @ 4392'

TOC @ 4618' (Calc, 75%)

Plug #3: 4392' - 4292'

Class B cement, 51 sxs:
12 inside and 39 outside

Plug #2: 5540' - 5086'

Class B cement, 39 sxs

Set CR @ 6194'

Gallup Perforations:
6244' - 6297'

Plug #1: 6194' - 6094'

Class B cement, 12 sxs

Dakota Perforations:
7103' - 7366'

4.5" 10.5#, 11.6# Casing set @ 7460'
1st Stage: Cement with 550 sxs (863 cf)

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: 145 Apache

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) Bring the top of the Dakota/Gallup plug to 6061'.
- b) Place the Mancos/Measverde plug from 5334' – 4514'.

OR

- b') Place the Mancos plug from 5334' – 5234'
- b'') Place the Measverde plug from 4514' – 4514'
- c) Place the Pictured Cliffs/Fruitland/Kirtland/Ojo Alamo plug from 2981' – 2380'.
- d) Place the Nacimiento plug from 1108'- 1008'.

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.