

RECEIVED

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

AUG 29 2013

FORM APPROVED  
OMB NO. 1004-0137  
Expires: October 31, 2014WELL COMPLETION OR RECOMPLETION REPORT AND LOG  
Farmington Field Office  
Bureau of Land Management

1a. Type of Well <input type="checkbox"/> Oil Well <input checked="" type="checkbox"/> Gas Well <input type="checkbox"/> Dry <input type="checkbox"/> Other		5. Lease Serial No. Jicarilla Contract 109							
b. Type of Completion: <input checked="" type="checkbox"/> New Well <input type="checkbox"/> Work Over <input type="checkbox"/> Deepen <input type="checkbox"/> Plug Back <input type="checkbox"/> Diff. Resyr., Other: _____		6. If Indian, Allottee or Tribe Name Jicarilla Apache Tribe							
2. Name of Operator EnerVest Operating, L.L.C.		7. Unit or CA Agreement Name and No. Report To Lease							
3. Address 1001 Fannin St., Suite 800 Houston, TX 77002		8. Lease Name and Well No. Jicarilla B #3R							
3a. Phone No. (include area code) 713-659-3500		9. API Well No. 30-039-31170 -0001							
4. Location of Well (Report location clearly and in accordance with Federal requirements)* 1930' FSL & 2300' FEL (UL J), Sec. 15 T26N R05W At surface  At top prod. interval reported below  At total depth 1921' FSL & 2013' FEL (UL J), Sec. 15 T26N R05W		10. Field and Pool or Exploratory Basin Dakota							
14. Date Spudded 05/23/2013		11. Sec., T., R., M., on Block and Survey or Area Sec. 15 T26N R05W							
15. Date T.D. Reached 05/30/2013		12. County or Parish Rio Arriba							
16. Date Completed 08/23/2013 <input type="checkbox"/> D & A <input checked="" type="checkbox"/> Ready to Prod.		13. State NM							
18. Total Depth: MD 7710' TVD 7681'		17. Elevations (DF, RKB, RT, GL)* 6610' GL							
19. Plug Back T.D.: MD 7657' TVD 7628'		20. Depth Bridge Plug Set: MD TVD							
21. Type Electric & Other Mechanical Logs Run (Submit copy of each) GR/CCL/CBL & RMT		22. Was well cored? <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes (Submit analysis) Was DST run? <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes (Submit report) Directional Survey? <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes (Submit copy)							
23. Casing and Liner Record (Report all strings set in well)									
Hole Size	Size/Grade	Wt. (#/ft.)	Top (MD)	Bottom (MD)	Stage Cementer Depth	No. of Sk. & Type of Cement	Slurry Vol. (BBL.)	Cement Top*	Amount Pulled
12 1/4"	9 5/8" J-55	36#	0	523'		225 sx Type III	56 bbls	Surf (circ)	
8 3/4"			0	3426'					
7 7/8"	4 1/2" N-80	11.6#	0	7700'		1282 sx P. Lite (3 stages)	462 bbls	Surf (circ)	
									RCJD SEP 3 '13 OIL CONS. DIV. DIST. 3
24. Tubing Record									
Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)	
2 3/8"	7572'								
25. Producing Intervals				26. Perforation Record					
Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status			
A) Dakota	7383'	TD:	7384' - 7608'	0.40"	64	Open, producing			
B)									
C)									
D)									
27. Acid, Fracture, Treatment, Cement Squeeze, etc.									
Depth Interval		Amount and Type of Material							
7384' - 7419' (28 holes)		17.9 bbls 15% HCl & 42 bio-balls, frac w/83592# 20/40 sand, 2542 bbls slickwater							
7471' - 7608' (36 holes)		23.8 bbls 15% HCl & 54 bio-balls, frac w/112880# 20/40 sand, 4763 bbls slickwater							
28. Production - Interval A									
Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL.	Gas MCF	Water BBL.	Oil Gravity Corr. API	Gas Gravity	Production Method
08/14/13	08/22/13	12	→	2.7	189.715	12.47			Flowing
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL.	Gas MCF	Water BBL.	Gas/Oil Ratio	Well Status	
64/64"	387 psi	153 psi	→	5.4	379.43	24.94		Producing	
28a. Production - Interval B									
Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL.	Gas MCF	Water BBL.	Oil Gravity Corr. API	Gas Gravity	Production Method
			→						
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL.	Gas MCF	Water BBL.	Gas/Oil Ratio	Well Status	
			→						

\*(See instructions and spaces for additional data on page 2)

ACCEPTED FOR RECORD

AUG 30 2013

NMOCDA

FARMINGTON FIELD OFFICE  
BY William Tambekou

## 28b. Production - Interval C.

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
			→						
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status	
			→						

## 28c. Production - Interval D

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
			→						
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status	
			→						

## 29. Disposition of Gas (Solid, used for fuel, vented, etc.)

Gas sold utilizing C-104 "Test Allowable" and "Green Completion"

## 30. Summary of Porous Zones (Include Aquifers):

Show all important zones of porosity and contents thereof. Cored intervals and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures and recoveries.

## 31. Formation (Log) Markers

Formation	Top	Bottom	Descriptions, Contents, etc.	Name	Top
					Meas. Depth
Ojo Alamo Kirtland	2480' 2830'	2830' 3053'		Cliffhouse Menefee	4828' 4878'
Fruitland Coal Pictured Cliffs	3053' 3172'	3172' 3311'		Point Lookout Dakota	5379' 7383'
Lewis Shale Cliffhouse	3311' 4828'	4828' 4878'			
Menefee Point Lookout	4878' 5379'	5379' 5879'			
Mancos (Regulatory) Gallup	5879' 6535'	6535' 7289'			
Greenhorn Graneros	7289' 7350'	7350' 7383'			
Dakota	7383'	TD			

## 32. Additional remarks (include plugging procedure):

GR/CCL/CBL &amp; RMT logs online in NMOCD log file.

## 33. Indicate which items have been attached by placing a check in the appropriate boxes:

- ☐ Electrical/Mechanical Logs (1 full set req'd.)     
 ☐ Geologic Report     
 ☐ DST Report     
 ☒ Directional Survey  
☐ Sundry Notice for plugging and cement verification     
 ☐ Core Analysis     
 ☒ Other: As-Drilled C-102 plat

## 34. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records (see attached instructions)\*

Name (please print) Bart TrevinoTitle Regulatory AnalystSignature Date 08/29/2013

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.

(Continued on page 3)

(Form 3160-4, page 2)

# RECEIVED

Form 3160-4  
(March 2012)

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

AUG 29 2013

FORM APPROVED  
OMB NO. 1004-0137  
Expires: October 31, 2014

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

Farmington Field Office  
Bureau of Land Management

5. Lease Serial No.  
Jicarilla Contract 109

1a. Type of Well ☐ Oil Well ☒ Gas Well ☐ Dry ☐ Other  
b. Type of Completion: ☒ New Well ☐ Work Over ☐ Deepen ☐ Plug Back ☐ Diff. Resrv.,  
Other: \_\_\_\_\_

6. If Indian, Allottee or Tribe Name  
Jicarilla Apache Tribe  
7. Unit or CA Agreement Name and No.  
**Report To Lease**

2. Name of Operator  
EnerVest Operating, L.L.C.

8. Lease Name and Well No.  
Jicarilla B #3R

3. Address 1001 Fannin St., Suite 800  
Houston, TX 77002

3a. Phone No. (include area code)  
713-659-3500

9. API Well No.  
30-039-31170 -0002

4. Location of Well (Report location clearly and in accordance with Federal requirements)\*

10. Field and Pool or Exploratory  
Blanco Mesaverde

1930' FSL & 2300' FEL (UL J), Sec. 15 T26N R05W  
At surface

11. Sec., T., R., M., on Block and  
Survey or Area  
Sec. 15 T26N R05W

At top prod. interval reported below

12. County or Parish  
Rio Arriba  
13. State  
NM

At total depth 1921' FSL & 2013' FEL (UL J), Sec. 15 T26N R05W

14. Date Spudded  
05/23/2013

15. Date T.D. Reached  
05/30/2013

16. Date Completed 08/23/2013  
☐ D & A ☒ Ready to Prod.

17. Elevations (DF, RKB, RT, GL)\*  
6610' GL

18. Total Depth: MD 7710'  
TVD 7681'

19. Plug Back T.D.: MD 7657'  
TVD 7628'

20. Depth Bridge Plug Set: MD  
TVD

21. Type Electric & Other Mechanical Logs Run (Submit copy of each).  
GR/CCL/CBL & RMT

22. Was well cored? ☒ No ☐ Yes (Submit analysis)  
Was DST run? ☒ No ☐ Yes (Submit report)  
Directional Survey? ☐ No ☒ Yes (Submit copy)

23. Casing and Liner Record (Report all strings set in well)

Hole Size	Size/Grade	Wt. (#/ft.)	Top (MD)	Bottom (MD)	Stage Cementer Depth	No. of Sk. & Type of Cement	Slurry Vol. (BBL)	Cement Top*	Amount Pulled
12 1/4"	9 5/8" J-55	36#	0	523'		225 sx Type III	56 bbls	Surf (circ)	
8 3/4"			0	3426'					
7 7/8"	4 1/2" N-80	11.6#	0	7700'		1282 sx P. Lite (3 stages)	462 bbls	Surf (circ)	
									RC/D SEP 3 '13 OIL CONS. DIV. DIST. 3

24. Tubing Record

Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)
2 3/8"	7572'							

25. Producing Intervals

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A) Mesaverde	4828'	5879'	4908' - 5529'	0.40"	82	Open, producing
B)						
C)						
D)						

27. Acid, Fracture, Treatment, Cement Squeeze, etc.

Depth Interval	Amount and Type of Material
4908' - 5280' (40 holes)	31.7 bbls 15% HCl & 63 bio-balls, frac w/151630# 20/40 sand, 996 bbls gelwater, and 1203.4 mscf N2
5360' - 5529' (42 holes)	28.7 bbls 15% HCl & 63 bio-balls; frac w/152510# 20/40 sand, 1057 bbls gelwater, and 1183.4 mscf N2

28. Production - Interval A

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
08/14/13	08/22/13	12	→	2.3	241.45	16.53			Flowing
Choke Size	Tbg. Press. Flwg. SI	Csg. Press. SI	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status	
64/64"	387 psi	153 psi	→	4.6	482.90	33.06		Producing	

28a. Production - Interval B

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
			→						
Choke Size	Tbg. Press. Flwg. SI	Csg. Press. SI	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status	
			→						

\*(See instructions and spaces for additional data on page 2)

ACCEPTED FOR RECORD

AUG 30 2013

NMOCD PV

FARMINGTON FIELD OFFICE  
BY William Tambakou

## 28b. Production - Interval C

Date First Produced	Test Date	Hours Tested	Test Production →	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate →	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status	

## 28c. Production - Interval D

Date First Produced	Test Date	Hours Tested	Test Production →	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate →	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status	

## 29. Disposition of Gas (Solid, used for fuel, vented, etc.)

Gas sold utilizing C-104 "Test Allowable" and "Green Completion"

## 30. Summary of Porous Zones (Include Aquifers):

Show all important zones of porosity and contents thereof: Cored intervals and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures and recoveries.

## 31. Formation (Log) Markers

Formation	Top	Bottom	Descriptions, Contents, etc.	Name	Top
					Meas. Depth
Ojo Alamo. Kirtland	2480' 2830'	2830' 3053'		Cliffhouse Menefee	4828' 4878'
Fruitland Coal Pictured Cliffs	3053' 3172'	3172' 3311'		Point Lookout Dakota	5379' 7383'
Lewis Shale Cliffhouse	3311' 4828'	4828' 4878'			
Menefee Point Lookout	4878' 5379'	5379' 5879'			
Mancos (Regulatory) Gallup	5879' 6535'	6535' 7289'			
Greenhorn Graneros	7289' 7350'	7350' 7383'			
Dakota	7383'	TD			

## 32. Additional remarks (include plugging procedure):

GR/CCL/CBL &amp; RMT logs online in NMOCD log file.

## 33. Indicate which items have been attached by placing a check in the appropriate boxes:

- ☐ Electrical/Mechanical Logs (1 full set req'd.)     
 ☐ Geologic Report     
 ☐ DST Report     
 ☒ Directional Survey  
☐ Sundry Notice for plugging and cement verification     
 ☐ Core Analysis     
 ☒ Other: As-Drilled C-102 plat

## 34. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records (see attached instructions)\*

Name (please print) Bart TrevinoTitle Regulatory AnalystSignature Date 08/29/2013

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.

(Continued on page 3)

(Form 3160-4, page 2)