

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

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

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 110			
b. Type of Completion: <input type="checkbox"/> New Well <input type="checkbox"/> Work Over <input type="checkbox"/> Deepen <input type="checkbox"/> Plug Back <input type="checkbox"/> Diff. Resvr., Other: Amended (box 4, 18, 19, 23, 25, 28)						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. <i>Report To Lease</i>			
3. Address 1001 Fannin St., Suite 800 Houston, TX 77002					3a. Phone No. (include area code) 713-659-3500	8. Lease Name and Well No. Jicarilla A #3N			
4. Location of Well (Report location clearly and in accordance with Federal requirements)* 1164' FNL & 2548' FWL (UL C) At surface Sec 19 T26N R05W  At top prod. interval reported below <i>1154'</i> At total depth <i>4474'</i> FNL & 2478' FWL (UL C), Sec 19 T26N R05W						9. API Well No. 30-039-31169-0001			
14. Date Spudded 04/26/2013						15. Date T.D. Reached 05/01/2013		16. Date Completed 07/08/2013 <input type="checkbox"/> D & A <input checked="" type="checkbox"/> Ready to Prod.	
18. Total Depth: MD 7570' TVD 7568'			19. Plug Back T.D.: MD 7502' TVD 7500'			20. Depth Bridge Plug Set: MD TVD		17. Elevations (DF, RKB, RT, GL)* 6562' GL	
21. Type Electric & Other Mechanical Logs Run (Submit copy of each) GR/CCL/CBL & Pulsed Neutron Logs						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 Cement 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	55.70 bbls	Surf (circ)	
8 3/4"				3270'					
7 7/8"	5 1/2" L-80	17#	0	7567'		966 sx Pr. Lite + 200 sxs Type III	405.22 bbls	Surf (circ)	
									RCVD AUG 1 '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 7/8"	7422'								
25. Producing Intervals									
Formation		Top	Bottom	Perforated Interval		Size	No. Holes	Perf. Status	
A) Basin Dakota		7194'	7570' (TD)	7196' - 7446'		0.40"	59	Open, Producing	
B)									
C)									
D)									
27. Acid, Fracture, Treatment, Cement Squeeze, etc.									
Depth Interval		Amount and Type of Material							
7196' - 7230' (30 holes)		21.5 bbls 15% HCl, frac w/82000# 20/40 sand and 2899 bbls slickwater							
7330' - 7446' (30 holes)		17.9 bbls 15% HCl, frac w/100000# 20/40 sand and 4982 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
7/18/13	7/21/13	24	→	23.71	495.9	22.66			Flowing (pipeline completed 7/15/13)
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status	
64/64	700psi	950psi	→	23.71	495.9	22.66		Producing (utilizing C-104 Test Allowable)	
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

JUL 30 2013

FARMINGTON FIELD OFFICE  
BY *William Tambekou*

NMCCD *rv*

## 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 using C-104 Test Allowable

## 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	2383' 2614'	2614' 2800'		Menefee Point Lookout	4678' 5196'
Fruiland Coal Picture Cliffs	2800' 2978'	2978' 3103'		Dakota	7194'
Lewis Shale Cliffhouse	3103' 4636'	4636' 4678'			
Menefee Point Lookout	4678' 5196'	5196' 5355'			
Mancos Gallup	5696' 6379'	6379' 7115'			
Greenhorn Graneros Shale	7115' 7167'	7167' 7194'			
Dakota	7194'	TD			

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

## 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:

## 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 TreviñoTitle Regulatory AnalystSignature Date 07/24/2013

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)

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

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

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

1a. Type of Well ☐ Oil Well ☒ Gas Well ☐ Dry ☐ Other  
b. Type of Completion: ☐ New Well ☐ Work Over ☐ Deepen ☐ Plug Back ☐ Diff. Resvr.,  
Other: Amended (box 4, 18, 19, 23, 25, 28)

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

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

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

4. Location of Well (Report location clearly and in accordance with Federal requirements)\*  
1164' FNL & 2548' FWL (UL C)  
At surface Sec 19 T26N R05W

At top prod. interval reported below

At total depth 1154' FNL & 2478' FWL (UL C), Sec 19 T26N R05W

14. Date Spudded  
04/26/2013

15. Date T.D. Reached  
05/01/2013

16. Date Completed 07/08/2013  
☐ D & A ☒ Ready to Prod.

17. Elevations (DF, RKB, RT, GL)\*  
6562' GL

18. Total Depth: MD 7570'  
TVD 7568'

19. Plug Back T.D.: MD 7502'  
TVD 7500'

20. Depth Bridge Plug Set: MD  
TVD

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

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 Cement Depth	No. of Sks. & 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	55.70 bbls	Surf (circ)	
8 3/4"				3270'					
7 7/8"	5 1/2" L-80	17#	0	7567'		966 sx Pr. Lite + 200 sxs Type III	405.22 bbls	Surf (circ)	

RCVD AUG 1 '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 7/8"	7422'							

25. Producing Intervals

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A) Blanco Mesaverde	4636'	5696'	4990' - 5356'	0.40"	76	Open, Producing
B)						
C)						
D)						

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

Depth Interval	Amount and Type of Material
4990' - 5114' (32 holes)	25 bbls 15% HCl, frac w/111841# 20/40 sand & 19069# resin-coated 20/40 sand, 1227 bbls gel water and 1273100 scf N2
5202' - 5356' (44 holes)	20 bbls 15% HCl, frac w/156159# 20/40 sand & 41161# resin-coated 20/40 sand, 1481 bbls gel water and 1615300 scf 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
7/18/13	7/21/13	24	→	6.30	359.1	24.55			Flowing (pipeline completed 7/15/13)
Choke Size	Tbg. Press. Flwg. St	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status	
64/64	700psi	950psi	→	6.30	359.1	24.55		Producing (utilizing C-104 Test Allowable)	

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. St	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

JUL 30 2013

NMOCD

AV

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 using C-104 Test Allowable

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

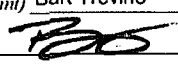
Formation	Top	Bottom	Descriptions, Contents, etc.	Name	Top
					Meas. Depth
Ojo Alamo Kirtland	2383' 2614'	2614' 2800'		Menefee Point Lookout	4678' 5196'
Fruitland Coal Picture Cliffs	2800' 2978'	2978' 3103'		Dakota	7194'
Lewis Shale Cliffhouse	3103' 4636'	4636' 4678'			
Menefee Point Lookout	4678' 5196'	5196' 5355'			
Mancos Gallup	5696' 6379'	6379' 7115'			
Greenhorn Graneros Shale	7115' 7167'	7167' 7194'			
Dakota	7194'	TD			

32. Additional remarks (include plugging procedure):

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:

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 Treviño  
Signature 

Title Regulatory Analyst  
Date 07/24/2013

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)

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

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

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

1a. Type of Well <input type="checkbox"/> Oil Well <input checked="" type="checkbox"/> Gas Well <input type="checkbox"/> Dry <input type="checkbox"/> Other 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. Resrv. Other: Amended box 4, BHL				Farmington Field Office Bureau of Land Management				5. Lease Serial No. Jicarilla Contract 110			
2. Name of Operator EnerVest Operating, L.L.C.				6. If Indian, Allottee or Tribe Name Jicarilla Apache Tribe				7. Unit or CA Agreement Name and No. Report To Lease			
3. Address 1001 Fannin St., Suite 800 Houston, TX 77002				3a. Phone No. (include area code) 713-659-3500				8. Lease Name and Well No. Jicarilla A #3N			
4. Location of Well (Report location clearly and in accordance with Federal requirements)* 1164' FNL & 2548' FWL (UL C) At surface Sec 19 T26N R05W  At top prod. interval reported below  At total depth 1154' FNL & 2478' FWL (UL C), Sec 19 T26N R05W				9. API Well No. 30-039-31169 - 00C1				10. Field and Pool or Exploratory Basin Dakota			
14. Date Spudded 04/26/2013				15. Date T.D. Reached 05/01/2013				16. Date Completed 07/08/2013 <input type="checkbox"/> D & A <input checked="" type="checkbox"/> Ready to Prod.			
18. Total Depth: MD 7570' TVD 7568'				19. Plug Back T.D.: MD 7502' TVD 7500'				20. Depth Bridge Plug Set: MD TVD			
21. Type Electric & Other Mechanical Logs Run (Submit copy of each) GR/CLL/CBL & Pulsed Neutron Logs				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 Cement 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	55.70 bbls	Surf (circ)			
8 3/4"				3270'							
7 7/8"	5 1/2" L-80	17#	0	7567'		966 sx Pr. Lite + 200 sx Type III	405.22 bbls	Surf (circ)			
										RCVD AUG 5 '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 7/8"	7422'										
25. Producing Intervals											
Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status					
A) Basin Dakota	7194'	7570' (TD)	7196' - 7446'	0.40"	59	Open, Producing					
B)											
C)											
D)											
27. Acid, Fracture, Treatment, Cement Squeeze, etc.											
Depth Interval	Amount and Type of Material										
7196' - 7230' (30 holes)	21.5 bbls 15% HCl, frac w/82000# 20/40 sand and 2899 bbls slickwater										
7330' - 7446' (30 holes)	17.9 bbls 15% HCl, frac w/100000# 20/40 sand and 4982 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		
7/18/13	7/21/13	24	→	23.71	495.9	22.66			Flowing (pipeline completed 7/15/13)		
Choke Size	Ibg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status			
64/64	700 psi	950 psi	→	23.71	495.9	22.66		Producing (utilizing C-104 Test Allowable)			
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	Ibg. 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

NMOCD

AV

AUG 05 2013

FARMINGTON FIELD OFFICE  
BY *Willie m Tan k*

## 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 using C-104 Test Allowable

## 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	2383'	2614'		Manefee	4678'
Kirtland	2614'	2800'		Point Lookout	5196'
Fruitland Coal	2800'	2978'		Dakota	7194'
Picture Cliffs	2978'	3103'			
Lewis Shale	3103'	4636'			
Cliffhouse	4636'	4678'			
Manefee	4678'	5196'			
Point Lookout	5196'	5355'			
Mancos	5696'	6379'			
Gallup	6379'	7115'			
Greenhorn	7115'	7187'			
Graneros Shale	7167'	7194'			
Dakota	7194'	TD			

32. Additional remarks (include plugging procedure):

C-102 attached to show BHL.

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:

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 TreviñoTitle Regulatory AnalystSignature Date 08/03/2013

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OMB NO. 1004-0137  
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WELL COMPLETION OR RECOMPLETION REPORT AND LOG

Ston Field Office  
Farmington, New Mexico

Lease Serial No.  
Jicarilla Contract 110

1a. Type of Well ☐ Oil Well ☒ Gas Well ☐ Dry ☐ Other  
b. Type of Completion: ☒ New Well ☐ Work Over ☐ Deepen ☐ Plug Back ☐ Diff. Resvr.,  
Other: Amended box 4, BHL

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 A #3N

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

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

9. API Well No.  
30-039-31169-0002

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

1164' FNL & 2548' FWL (UL C)  
At surface Sec 19 T26N R05W

10. Field and Pool or Exploratory  
Blanco Mesaverde

11. Sec., T., R., M., on Block and  
Survey or Area  
Sec 19 T26N R05W

At top prod. interval reported below

At total depth 1154' FNL & 2478' FWL (UL C), Sec 19 T26N R05W

12. County or Parish  
Rio Arriba  
13. State  
NM

14. Date Spudded  
04/26/2013

15. Date T.D. Reached  
05/01/2013

16. Date Completed 07/08/2013  
☐ D & A ☒ Ready to Prod.

17. Elevations (DF, RKB, RT, GL)\*  
6562' GL

18. Total Depth: MD 7570'  
TVD 7568'

19. Plug Back T.D.: MD 7502'  
TVD 7500'

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

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Was DST run? ☒ No ☐ Yes (Submit report)  
Directional Survey? ☐ No ☒ Yes (Submit copy)

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

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RCVD AUG 5 '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 7/8"	7422'							

25. Producing Intervals

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A) Blanco Mesaverde	4636'	5696'	4990' - 5356'	0.40"	76	Open, Producing
B)						
C)						
D)						

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

Depth Interval	Amount and Type of Material
4990' - 5114' (32 holes)	25 bbls 15% HCl, frac w/111841# 20/40 sand & 19069# resin-coated 20/40 sand, 1227 bbls gel water and 1273100 scf N2
5202' - 5356' (44 holes)	20 bbls 15% HCl, frac w/156159# 20/40 sand & 41161# resin-coated 20/40 sand, 1481 bbls gel water and 1615300 scf 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
7/18/13	7/21/13	24	→	6.30	359.1	24.55			Flowing (pipeline completed 7/15/13)
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	700 psi	950 psi	→	6.30	359.1	24.55		Producing (utilizing C-104 Test Allowable)	

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

NMOCD

AV

AUG 05 2013

FARMINGTON FIELD OFFICE  
BY William Tamberton

## 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 using C-104 Test Allowable

## 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	2383'	2614'		Menefee	4678'
Kirtland	2614'	2800'		Point Lookout	5196'
Fruitland Coal	2800'	2978'		Dakota	7194'
Picture Cliffs	2978'	3103'			
Lewis Shale	3103'	4636'			
Cliffhouse	4636'	4678'			
Menefee	4678'	5196'			
Point Lookout	5196'	5355'			
Mancos	5696'	6379'			
Gallup	6379'	7115'			
Greenhorn	7115'	7167'			
Graneros Shale	7167'	7194'			
Dakota	7194'	TD			

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

C-102 attached to show BHL.

## 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:

## 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 TreviñoTitle Regulatory AnalystSignature Date 08/03/2013

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)