

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

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

5. LEASE DESIGNATION AND SERIAL NO.

Jicarilla Contract 102

JUN 18 2014

1a. Type of Well ☐ Oil Well ☒ Gas Well ☐ Dry ☐ Other

b. Type of Completion ☒ New Well ☐ Workover ☐ Deepen ☐ Plug Back ☐ Diff. Resv.

Other

6. INDIAN ALLOTTEE OR TRIBE NAME

Jicarilla Apache Tribe

7. UNIT AGREEMENT

2. Name of Operator

EnerVest Operating, L.L.C.

OIL CONS. DIV DIST. 3

JUN 23 2014

8. FARM OR LEASE NAME

Jicarilla Apache 102 #14M

3. Address

1001 Fannin Street Ste. 800, Houston, Tx 77002

3a. Phone No. (include area code)

713-659-3500; 713-970-1847

9. API WELL NO.

30-039-31193-0002

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

At surface

1310' FSL & 1482' FWL of Sec. 9, T26N, R4W, UL N

At top prod. Interval reported below

At total depth

606' FSL & 1958' FWL of Sec. 9, T26N, R4W, UL N

10. FIELD NAME

Basin Dakota

11. SEC. T, R, M, OR BLOCK AND SURVEY OR AREA

Sec. 9, T26N, R4W

12. COUNTY OR PARISH

Rio Arriba

13. STATE

NM

14. Date Spudded

3/27/2014

15. Date T.D. Reached

4/20/2014

16. Date Completed

6/9/2014
D & A X Ready to Prod.

17. ELEVATIONS (DF, RKB, RT, GR, etc.)*

18. Total Depth:

MD

8504

TVD

8385

19. Plug back T.D.:

MD

8433

TVD

20. Depth Bridge Plug Set:

MD

TVD

21. Type Electric & other Logs Run (Submit a copy of each)

Cased Hole Pulsed Neutron (RMT) & CBL + Gyro to surface casing

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 Sks. & Type of	Slurry Vol. (Bbl)	Cement Top*	Amount Pulled
12 1/4"	8 5/8" J-55	24#	0	523' 520'		297 sx Type III	73 1/2	Surf (circ)	
7 7/8"	4 1/2" N-80	11.6#	0	8503'		548 sx Prem Lt HS	197	4890'	

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"	8223'							

25. Producing Intervals

Formation	Top	Bottom	Perforated Interval	Size	No. of Holes	Perf. Status
A) Dakota			8192-8278'	0.40"	60	Open, producing
B) Dakota			8090-8111'	.040"	63	Open, producing
C)						
D)						

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

Depth Interval	Amount and Type of Material
8192-8278'	acidize w/1000 gal 15% HCl, frac w/108780 gal 20 ppg XL gel & 125160# 20/40 mesh sd, 40 bpm & 3274 psi.
8090-8111'	acidize w/1000 gal 15% HCl, frac w/107688 gal 20 ppg XL gel & 139960# 20/40 mesh sd, 41 bpm & 3120 psi.

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
6/9/2014	6/12/2014	14	→	0	128	60			Flowing
Choke Size	Tbg. Press Flwg.	Csg. Press.	24 Hr. Rate	Oil Bbl	Gas MCF	Water Bbl	Gas: Oil Ratio	Well Status	Producing
64	32	629	→	0	128	60			

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.	Csg. Press.	24 Hr. Rate	Oil Bbl	Gas MCF	Water Bbl	Gas: Oil Ratio	Well Status	Producing
	SI		→						

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

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FARMINGTON FIELD OFFICE
BY: William Tambekou

45

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 (Sold, used for fuel, vented, etc.)

Gas sold with "Test Allowable" C-104 using 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.

Formation	Top	Bottom	Descriptions Contents, Etc.	Name	Top
					Measured Depth
Ojo Alamo	3274				
Kirtland	3752				
Fruitland Coal	3845				
Picture Cliffs	3903				
Lewis	3964				
Chacra	4851				
Cliffhouse	5568				
Menefee	5704				
Point Lookout	6053				
Mancos	6138				
Greenhorn	7995				
Graneros Shale	8055				
Dakota	8077				

31. Formation (Log) Markers:

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 required)☐ Geologic Report☐ DST Report☐ Directional Survey☐ Sundry Notice for plugging and cement verification☐ Core Analysis☒ Other:

Wellbore Schematic

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) Jeanie

Title Sr. Regulatory Advisor

Signature

Jeanie McMillan

Date June 16, 2014

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.

UNITED STATES
DEPARTMENT OF THE INTERIOR
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OMB NO. 1004-0137

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LEASE DESIGNATION AND SERIAL NO.

Jicarilla Contract 102

1a. Type of Well ☐ Oil Well ☒ Gas Well ☐ Dry ☐ Otherb. Type of Completion ☒ New Well ☐ Workover ☐ Deepen ☐ Plug Back ☐ Diff. Resvr.

Other

6. INDIAN ALLOTTEE OR TRIBE NAME

Jicarilla Apache Tribe

7. UNIT AGREEMENT

2. Name of Operator

EnerVest Operating, L.L.C.

3. Address

1001 Fannin Street Ste. 800, Houston, Tx 77002

3a. Phone No. (include area code)

713-659-3500; 713-970-1847

8. FARM OR LEASE NAME

Jicarilla Apache 102 #14M

9. API WELL NO.

30-039-31193-0023

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

At surface

1310' FSL & 1482' FWL of Sec. 9, T26N, R4W, UL N

At top prod. Interval reported below

At total depth

606' FSL & 1958' FWL of Sec. 9, T26N, R4W, UL N

10. FIELD NAME

Blanco Mesaverde

11. SEC. T, R, M., OR BLOCK AND SURVEY
OR AREA Sec. 9, T26N, R4W

12. COUNTY OR PARISH

Rio Arriba

13. STATE

NM

14. Date Spudded

3/27/2014

15. Date T.D. Reached

4/20/2014

16. Date Completed 6/9/2014

D & A X Ready to Prod.

17. ELEVATIONS (DF, RKB, RT, GR, etc.)*

7112' GR

18. Total Depth:

MD

8504'

TVD

8385'

19. Plug back T.D.:

MD

8433'

TVD

20. Depth Bridge Plug Set:

MD

TVD

21. Type Electric & other Logs Run (Submit a copy of each)

CHPN (RMT) & CBL + Gyro to surface csg

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 Sks. & Type of	Slurry Vol. (Bbl)	Cement Top*	Amount Pulled
12 1/4"	8 5/8" J-55	24#	0	523-524'		297 sx Type III	73 1/2	Surf (circ)	
7 7/8"	4 1/2" N-80	11.6#	0	8503'		548 sx Prem Lt HS	197	4890'	

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"	8223'							

25. Producing Intervals

Formation	Top	Bottom	Perforated Interval	Size	No. of Holes	Perf. Status
A) Mesa Verde			5570-5694'	0.40"	126	Open, producing
B) Mesa Verde			5764-5924'	0.40"	117	Open, producing
C) Mesa Verde			6054-6116'	0.40"	87	Open, producing
D)						

26. Perforation Record

27. Acid Fracture Treatment, Cement Squeeze, Etc.

Depth Interval	Amount and Type of Material
5570-5694'	acidize w/1000 gal 15% HCl, frac w/101500 gal 70-60% N2 foam (45654 gal 20# gel + 1443000 scf N2) & 137620# 20/40 mesh sd @ 50-60 bpm & 2810 psi
5764-5924'	acidize w/1000 gal 15% HCl, frac w/107000 gal 70-60% N2 foam (42294 gal 20 # gel + 1442000 scf N2) & 151920# 20/40 mesh sd, 50-60 bpm & 3192 psi.
6054-6116'	acidize w/1000 gal 15% HCl, frac w/ 85500 gal 70-60% N2 foam (43848 gal 20# gel + 1260700scf N2) & 118480# 20/40 mesh sd, 60 bpm & 3203 psi.

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
6/9/2014	6/12/2014	14	→	0	114	70			Flowing
Choke Size	Tbg. Press Flwg. SI	Csg. Press.	24 Hr. Rate	Oil Bbl	Gas MCF	Water Bbl	Gas: Oil Ratio	Well Status	
64	32	629	→	0	114	70		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)

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FARMINGTON FIELD OFFICE

BY: William Tambekou

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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 (Sold, used for fuel, vented, etc.)

Gas sold with "Test Allowable" C-104 using 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
					Measured Depth
Ojo Alamo	3274				
Kirtland	3752				
Fruitland Coal	3845				
Picture Cliffs	3903				
Lewis	3964				
Chacra	4851				
Cliffhouse	5568				
Menefee	5704				
Point Lookout	6053				
Mancos	6138				
Greenhorn	7995				
Graneros Shale	8055				
Dakota	8077				

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 required)
 ☐ Geologic Report
 ☐ DST Report
 ☐ Directional Survey
- ☐ Sundry Notice for plugging and cement verification
 ☐ Core Analysis
 ☒ Other: Wellbore Schematic

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) Jeanie McMillan

Title Sr. Regulatory Analyst

Signature

Jeanie McMillan

Date 6/16/2014

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.

30-039-31193

ENERVEST OPERATING, LLC

Jicarilla Apache 102 # 14M (As Drilled)

TYPE	Dakota/MV	RIG	TBD	DATE	2-Jun-2014
FIELD	Tapicito	COUNTY	Rio Arriba	ELEVATION	GL= 7112', KB= 7125'
GAS/OIL	Gas/Oil	MUD	LSND	BHT/BHP	175 deg / 1822 psi
LOCATION	SHL; 1310' FSL & 1482' FWL Unit N, Sec 9, T26N, R4W			SHL; , -107.26001 W , 36.49728 N(NAD 27)	
	BHL; 606' FSL & 1958' FWL Unit N, Sec 9, T26N, R4W			BHL; -107.255031 W, 36.490831 N,(NAD 27)	

COMMENTS: OBJECTIVE FORMATION: Dakota and Mesa Verde

NOTES:

		DEPTH MD/ TVD	
Surface Section	Cemented to Surface		
Inclination @ 500'	12 1/4" Hole > 8-5/8", 24#,J-55,ST&C	523'	Cement to surface Water based bentonite mud Drilled Tri-Cone Bit
Production Section	Cemented to Surface with 3 Stages		
	7 7/8" Hole from 500' to TD > Ojo Alamo >	3274'	< < < Start to drill directionally @ +/- 600' 144 deg azimuth Drilled w/PDC, motor, 4-1/2" DP 8.7-9.0 PPG LSND Bentonite Mud
Production Tubing: 2 3/8" 4.7# J-55 set @ 8223', SN @ 8222' >>>>>>>>			
	Kirtland >	3752'	
	Fruitland Coal >	3845'	
	Picture Cliffs >	3903'	
	Lewis >	3964'	
	Chacra >	4851'	
<div>Upper MV, Stg5: 5570-5694' 126 0.40" holes. Acidize with spearhead of 1000 gal 15% HCl. Frac with 101500 gal 70-60% N2 foam (45654 gal 20# gel + 1443000 scf N2) and 137620# 20/40 mesh sand @ 50-60 bpm and 2810 psi.</div> <div>Middle MV Stg 4: 5764-5924, 117 0.40" holes. Acidize with spearhead of 1000 gal 15% HCl. Frac with 107000 gal 70-60% N2 foam (42294 gal 20 # gel + 1442000 scf N2) and 151920# 20/40 mesh sand at 50-60 bpm and 3192 psi</div> <div>Lower MV, Stg3. 6054-6116, 87 0.40" holes. Acidize with spearhead of 1000 gal 15% HCl. Frac with 85500 gal 70-60% N2 foam (43848 gal 20# gel + 1260700scf N2) and 118480# 20/40 mesh sand at 60 bpm and 3203 psi.</div> <div>Upper Dakota, Stg2: 8090-8111, 63 0.40" holes. Acidize with spearhead of 1000 gal 15% HCl. Frac with 107688 gal 20 ppg XL gel and 139960# 20/40 mesh sand at 41 bpm and 3120 psi</div> <div>Lower Dakota, Stg 1: 8192-8278, 60 0.40" holes. Acidize with spearhead of 1000 gal 15% HCl. Frac with 108780 gal 20 ppg XL gel and 125160# 20/40 mesh sand at 40 bpm and 3274 psi.</div>			
	Cliffhouse >	5568'	
	Menefee >	5450' 5704'	
	Point Lookout >	5588' 6053'	
		5935'	
	Mancos >	6138'	
	Regulatory Mancos	6553'	
	Greenhorn >	7995'	
	Graneros Shale >	8055'	
	Dakota >	8077'	
		7959'	
4-1/2", 11.6#, N-80 LT&C - 8503' to Surface			
		8385' TVD 8504' MD	
			<p>< < < Resume vertical hole @ +/- 4500' MD Vertical Section = +/- 843' SE</p> <p><<<<<<< TOC 4890'</p> <p>Logs: Cased Hole Pulsed Neutron (RMT) & CBL + Gyro to surface casing</p> <p>Cement: Cemented stge 1 only, 1107 cu ft, (548 sx) Baker Premium Lite HS @ 12.5 ppg</p> <p>PBTD 8433' FC = 8459'</p>

OIL CONS. DIV DIST. 3

JUN 23 2014

AFE #	CO 1312 896	REGULATORY	J McMillan	713-970-1847
EV #	54012.023	ENGINEER	R Trueheart / L Diede	713-495-1561 / 505-334-8867
API #	30-039-31193	GEOLOGIST	G Kowalczyk	713-495-6590