RECEIVED

DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FEB 12 2019

Farmington Field Office
Bureau of Land Management

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

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

5. Lease Serial No.
NOG13121793

1a. Type of Well ☒Oil Well ☐Well ☐Dry ☐Other
b. Type of Completion ☒New Well ☐Work Over ☐Deepen ☐Plug Back ☐Diff. Zones ☐Hydraulic Fracturing
☐Other: _____ AMENDED

6. If Indian, Allottee or Tribe Name

7. Unit or CA Agreement Name and No.
NMNM135217A

2. Name of Operator
Enduring Resources IV LLC

8. Lease Name and Well No.
N ESCAVADA UNIT #317H

3. Address
200 Energy Court Farmington NM 87401

3a. Phone No. *(Include area code)*
505-636-9743

9. API Well No.
30-043-21295

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

CONFIDENTIAL

At surface

SHL: 228' FSL & 1547' FEL, Sec 9, T22N, R7W
BHL: 1839' FSL & 2284' FEL, Sec 5 T22N, R7W

At top prod. interval reported below At total depth

10. Field and Pool or Exploratory
ESCAVADA N,MANCOS

11. Sec., T., R., M., on Block and Survey or Area
9 22N 7W

12. County or Parish
Sandoval

13. State
NM

14. Date Spudded
9/25/17

15. Date T.D. Reached
12/1/17

16. Date Completed 1/20/19
☐D & A ☒Ready to Prod.

17. Elevations (DF, RKB, RT, GL)*
6864'

18. Total Depth: **15115' MD**
4960' TVD

19. Plug Back T.D.: **15065' MD**
4957' TVD

20. Depth Bridge Plug Set: MD
TVD

21. Type Electric & Other Mechanical Logs Run (Submit copy of each)

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

NMOCD

Form 3160-4
(June 2015)

UNITED STATES

FEB 21 2019

DISTRICT III

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 Cement	Slurry Vol. (BBL)	Cement Top*	Amount Pulled
12-1/4"	9-5/8", J-55	36	0	**330' MD**		101	162	surface	
8-3/4"	7", J-55	23	0	**5663' MD**		950	1533	surface	
6-1/8"	4-1/2", P-110	11.6	5511'	**15113' MD**		905	1229	TOL 5511'	
								New TOL 4650'	

24. Tubing Record

Size	Dept Set (MD)	Packer Dept (MD)	Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)
2-7/8",6.5#,L-80 EUE 8rd	4192'							

25. Producing Intervals / 26. Perforation Record

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
MC 55th	5745'	14998'	5745'-5885'	.35	20	
MC 53rd-54th			5925'-6223'	.35	20	
MC 51st-52nd			6262'-6561'	.35	20	
MC 49th -50th			6600'-6898'	.35	20	
MC 47th -48th			6937'-7236'	.35	20	
MC 45th -46th			7275'-7573'	.35	20	
MC 43rd-44th			7612'-7911'	.35	20	
MC 41st-42nd			7950'-8248'	.35	20	
MC 39th-40th			8287'-8586'	.35	20	
MC 37th-38th			8626'-8923'	.35	20	
MC 35th-36th			8962'-9261'	.35	20	
MC 33rd-34th			9300'-9598'	.35	20	
MC 31st-32nd			9637'-9936'	.35	20	
MC 29th-30th			9975'-10273'	.35	20	
MC 27th-28th			10312'-10611'	.35	20	
MC 25th-26th			10650'-10945'	.35	20	
MC 23rd-24th			10987'-11286'	.35	20	
MC 21st-22nd			11325'-11623'	.35	20	
MC 19th-20th			11662'-11961'	.35	20	

ACCEPTED FOR RECORD
FEB 20 2019
FARMINGTON FIELD OFFICE
By:

NMOCD

MC 17th-18th			12000'-12298'	.35	20	
MC 15th-16th			12337'-12636'	.35	20	
MC 13th-14th			12675'-12973'	.35	20	
MC 11th-12th			13012'-13311'	.35	20	
MC 9th-10th			13350'-13648'	.35	20	
MC 7th-8th			13687'-13986'	.35	20	
MC 5th-6th			14025'-14323'	.35	20	
MC 3rd-4th			14362'-14661'	.35	20	
MC 1st- 2nd			14700'-14998'	.35	20	

27. Acid, Fracture, Treatment, Cement Squeeze, Post hydraulic fracturing chemical disclosures on FracFocus.org

Depth Interval	Amount, Type of Material and Date of Chemical Disclosure upload on FracFocus.org
5745'-5885'	MC 55th stage with 340985#, 30/50 & 20/40 PSA Sand
5925'-6223'	MC 53rd-54th stage with 654900#, 30/50 & 20/40 PSA Sand
6262'-6561'	MC 51st-52nd stage with 661840#, 30/50 & 20/40 PSA Sand
6600'-6898'	MC 49th -50th stage with 647600#, 30/50 & 20/40 PSA Sand
6937'-7236'	MC 47th -48th stage with 657894#, 30/50 & 20/40 PSA Sand
7275'-7573'	MC 45th -46th stage with 666039#, 30/50 & 20/40 PSA Sand
7612'-7911'	MC 43rd-44th stage with 653928#, 30/50 & 20/40 PSA Sand
7950'-8248'	MC 41st-42nd stage with 664140#, 30/50 & 20/40 PSA Sand
8287'-8586'	MC 39th-40th stage with 652080#, 30/50 & 20/40 PSA Sand
8626'-8923'	MC 37th-38th stage with 654165#, 30/50 & 20/40 PSA Sand
8962'-9261'	MC 35th-36th stage with 651627#, 30/50 & 20/40 PSA Sand
9300'-9598'	MC 33rd-34th stage with 655720#, 30/50 & 20/40 PSA Sand
9637'-9936'	MC 31st-32nd stage with 672456#, 30/50 & 20/40 PSA Sand
9975'-10273'	MC 29th-30th stage with 648950#, 30/50 & 20/40 PSA Sand
10312'-10611'	MC 27th-28th stage with 653738#, 30/50 & 20/40 PSA Sand
10650'-10945'	MC 25th-26th stage with 656095#, 30/50 & 20/40 PSA Sand
10987'-11286'	MC 23rd-24th stage with 657200#, 30/50 & 20/40 PSA Sand
11325'-11623'	MC 21st-22nd stage with 659169#, 30/50 & 20/40 PSA Sand
11662'-11961'	MC 19th-20th stage with 650704#, 30/50 & 20/40 PSA Sand
12000'-12298'	MC 17th-18th stage with 653903#, 30/50 & 20/40 PSA Sand
12337'-12636'	MC 15th-16th stage with 656944#, 30/50 & 20/40 PSA Sand
12675'-12973'	MC 13th-14th stage with 650440#, 30/50 & 20/40 PSA Sand
13012'-13311'	MC 11th-12th stage with 656275#, 30/50 & 20/40 PSA Sand
13350'-13648'	MC 9th-10th stage with 654130#, 30/50 & 20/40 PSA Sand
13687'-13986'	MC 7th-8th stage with 653960#, 30/50 & 20/40 PSA Sand
14025'-14323'	MC 5th-6th stage with 653920#, 30/50 & 20/40 PSA Sand
14362'-14661'	MC 3rd-4th stage with 655590#, 30/50 & 20/40 PSA Sand
14700'-14998'	MC 1st- 2nd stage with 658090# 30/50 & 20/40 PSA Sand

28.Production - Interval A

Date First Produced Will file on delivery sundry	Test Date	Hours Tested 24 hr	Test Production →	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API.	Gas Gravity	Production Method Flowing

Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate →	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status 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)

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	

28. Disposition of Gas *(Solid, used for fuel, vented, etc.)*

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, fl and shut-in pressures and recoveries.

31. Formation (Log) Markers

Formation	Top	Bottom	Descriptions, Contents, etc.	Name	Top Meas. Depth
OJO ALAMO	762	760			
KIRTLAND	965	960			
PICTURED CLIFFS	1302	1287			
LEWIS	1411	1390			
CHACRA	1715	1674			
CLIFF HOUSE	2908	2774			
MENEFEE	2942	2806			
POINT LOOKOUT	3885	3673			
MANCOS	4052	3827			
GALLUP	4410	4169			

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)* Lacey Granillo Title Permit Specialist

Signature Lacey Granillo Date 2/12/19

RECEIVED
JAN 31 2019
Farmington Field Office
Bureau of Land Management

DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

5. Lease Serial No. **NOG13121793**

1a. Type of Well ☒Oil Well ☐Well ☐Dry ☐Other
b. Type of Completion ☒New Well ☐Work Over ☐Deepen ☐Plug Back ☐Diff. Zones ☐Hydraulic Fracturing
☐Other: _____

6. If Indian, Allottee or Tribe Name

7. Unit or CA Agreement Name and No. NMNM135217A

2. Name of Operator **Enduring Resources IV LLC**

8. Lease Name and Well No. **N ESCAVADA UNIT #317H**

3. Address **200 Energy Court Farmington NM 87401**

3a. Phone No. *(Include area code)* 505-636-9743

9. API Well No. **30-043-21295**

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

At surface

SHL: 228' FSL & 1547' FEL, Sec 9, T22N, R7W
BHL: 1839' FSL & 2284' FEL, Sec 5 T22N, R7W

At top prod. interval reported below At total depth

10. Field and Pool or Exploratory **ESCAVADA N,MANCOS**

11. Sec., T., R., M., on Block and Survey or Area **9 22N 7W**

12. County or Parish **Sandoval**

13. State **NM**

14. Date Spudded 9/25/17

15. Date T.D. Reached 12/1/17

16. Date Completed 1/20/19 ☐D & A ☒Ready to Prod.

17. Elevations (DF, RKB, RT, GL)* 6864'

18. Total Depth: **15115' MD** **4960' TVD**

19. Plug Back T.D.: **15065' MD** **4957' TVD**

20. Depth Bridge Plug Set: MD TVD

21. Type Electric & Other Mechanical Logs Run (Submit copy of each)

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

Form 3160-4
(June 2015)

UNITED STATES

CONFIDENTIAL

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 Cement	Slurry Vol. (BBL)	Cement Top*	Amount Pulled
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8-3/4"	7", J-55	23	0	**5663' MD**		950	1533	surface	
6-1/8"	4-1/2", P-110	11.6	5511'	**15113' MD**		905	1229	TOL 5511'	

24. Tubing Record

Size	Dept Set (MD)	Packer Dept (MD)	Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)
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MC 35th-36th			8962'-9261'	.35	20	
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MC 21st-22nd			11325'-11623'	.35	20	
MC 19th-20th			11662'-11961'	.35	20	

ACCEPTED FOR RECORD
FEB 06 2019
FARMINGTON FIELD OFFICE
By: _____

NMOCD
FEB 08 2019
DISTRICT III

MC 17th-18th			12000'-12298'	.35	20	
MC 15th-16th			12337'-12636'	.35	20	
MC 13th-14th			12675'-12973'	.35	20	
MC 11th-12th			13012'-13311'	.35	20	
MC 9th-10th			13350'-13648'	.35	20	
MC 7th-8th			13687'-13986'	.35	20	
MC 5th-6th			14025'-14323'	.35	20	
MC 3rd-4th			14362'-14661'	.35	20	
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27. Acid, Fracture, Treatment, Cement Squeeze, Post hydraulic fracturing chemical disclosures on FracFocus.org

Depth Interval	Amount, Type of Material and Date of Chemical Disclosure upload on FracFocus.org
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28.Production - Interval A

Date First Produced Will file on delivery sundry	Test Date	Hours Tested 24 hr	Test Production →	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API.	Gas Gravity	Production Method Flowing

Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate →	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status 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)

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	

28. Disposition of Gas *(Solid, used for fuel, vented, etc.)*

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, fl and shut-in pressures and recoveries.

31. Formation (Log) Markers

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OJO ALAMO	762	760			
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LEWIS	1411	1390			
CHACRA	1715	1674			
CLIFF HOUSE	2908	2774			
MENEFEE	2942	2806			
POINT LOOKOUT	3885	3673			
MANCOS	4052	3827			
GALLUP	4410	4169			

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)* Lacey Granillo Title Permit Specialist

Signature Lacey Granillo Date 1/31/19