

District I  
1625 N. French Dr., Hobbs, NM 88240  
District II  
811 S. First St., Artesia, NM 88210  
District III  
1000 Rio Brazos Rd., Aztec, NM 87410  
District IV  
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico  
Energy, Minerals & Natural Resources

Form C-104  
Revised August 1, 2011

Oil Conservation Division  
1220 South St. Francis Dr.  
Santa Fe, NM 87505

Submit one copy to appropriate District Office

☐ AMENDED REPORT

I. REQUEST FOR ALLOWABLE AND AUTHORIZATION TO TRANSPORT

<sup>1</sup> Operator name and Address RAW Oil & Gas, Inc 1415 Budder, Hobbs Ave Lubbock, TX 79401		<sup>2</sup> OGRID Number 371846
<sup>4</sup> API Number 30-025-44306		<sup>3</sup> Reason for Filing Code/Effective Date New Well / 4/26/18
<sup>5</sup> Pool Name Sawyer (San Andres)		<sup>6</sup> Pool Code NA
<sup>7</sup> Property Code 320526	<sup>8</sup> Property Name McDermott Federal	<sup>9</sup> Well Number 3

II. <sup>10</sup> Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South Line	Feet from the	East/West line	County
L	19	9-S	38-E		1700	South	660	West	Lea

<sup>11</sup> Bottom Hole Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
L	19	9-S	38-E		1700	South	660	West	Lea
<sup>12</sup> Lse Code F	<sup>13</sup> Producing Method Code P	<sup>14</sup> Gas Connection Date 4/26/18	<sup>15</sup> C-129 Permit Number NA	<sup>16</sup> C-129 Effective Date NA	<sup>17</sup> C-129 Expiration Date NA				

III. Oil and Gas Transporters

<sup>18</sup> Transporter OGRID	<sup>19</sup> Transporter Name and Address	<sup>20</sup> O/G/W
214984	Plains Marketing, L.P. P.O. Box 4648, Houston, TX 77210	O
24650	Targa Midstream Services, L.P. 1000 Louisiana Street, Suite 4700 Houston, TX 77002	G
	Stateline Trucking, Inc P.O. Box 66 Bledsoe, TX 79314	W

IV. Well Completion Data

<sup>21</sup> Spud Date 2/17/18	<sup>22</sup> Ready Date 4/28/18	<sup>23</sup> TD 5225	<sup>24</sup> PBTD 5185	<sup>25</sup> Perforations 4940-5020	<sup>26</sup> DHC, MC NA
<sup>27</sup> Hole Size 12.25	<sup>28</sup> Casing & Tubing Size 8 5/8" 24"	<sup>29</sup> Depth Set 2360	<sup>30</sup> Sacks Cement 1190		
7.875	5 1/2" 15.5"	5225	1040		

V. Well Test Data

<sup>31</sup> Date New Oil 4/25/18	<sup>32</sup> Gas Delivery Date 4/25/18	<sup>33</sup> Test Date 5/1/18	<sup>34</sup> Test Length 24 hrs	<sup>35</sup> Tbg. Pressure 400	<sup>36</sup> Csg. Pressure 40
<sup>37</sup> Choke Size NA	<sup>38</sup> Oil 47	<sup>39</sup> Water 39	<sup>40</sup> Gas 43	<sup>41</sup> Test Method P	

<sup>42</sup> I hereby certify that the rules of the Oil Conservation Division have been complied with and that the information given above is true and complete to the best of my knowledge and belief.

Signature: *Joe D. Hardin*

Printed Name: Joe D. Hardin

Title: President

E-mail Address: rawenergy@raw-energy.net

Date: Phone: 806-771-7766

OIL CONSERVATION DIVISION

Approved by: *Karen Sharp*

Title: Staff Mgr

Approval Date: 5-2-18

Pending BLM approvals will subsequently be reviewed and scanned

HOBBS OCD

MAY 02 2018

RECEIVED

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FORM APPROVED  
OMB No. 1004-0135  
Expires January 31, 2004

**HOBBS OCD**

**MAY 02 2008**

**SUNDRY NOTICES AND REPORTS ON WELLS**

not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.

**RECEIVED**

IN TRIPLICATE- Other instructions on reverse side.

1 Type of Well ☒ Oil Well ☐ Gas Well ☐ Other

2 Name of Operator **RAW Oil & Gas, Inc.**

3a Address **1415 Buddy Holly Ave. Lubbock, TX - 79401** 3b Phone No (include area code) **806-771-7766**

4 Location of Well (Footage, Sec., T., R., M., or Survey Description)  
**L. 19, 9-S, 38 E  
1700 S, 660 West, Lea Co. NM**

5 Lease Serial No. **NMNM 016269**

6 If Indian, Allottee or Tribe Name

7 If Unit or CA/Agreement, Name and/or No. **320526**

8 Well Name and No. **McDermott Federal #3**

9 API Well No. **30-025-44306**

10 Field and Pool, or Exploratory Area **Sawyer (San Andres)**

11 County or Parish, State **Lea, NM**

**12. CHECK APPROPRIATE BOX(ES) 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"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Reclamation
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete
	<input type="checkbox"/> Change Plans	<input 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
			<input type="checkbox"/> Water Shut-Off
			<input type="checkbox"/> Well Integrity
			<input checked="" type="checkbox"/> Other <b>Spud, Drilling, Casing.</b>

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 recomple horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with 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 recomple in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

*See attached detail:*

14 I hereby certify that the foregoing is true and correct  
Name (Printed Typed)

**Joe D. Handlin**

Title **President**

Signature **Joe D. Handlin**

Date **5-2-18**

**THIS SPACE FOR FEDERAL OR STATE OFFICE USE**

Approved by \_\_\_\_\_  
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 \_\_\_\_\_ Date \_\_\_\_\_  
Office \_\_\_\_\_

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Instructions on page 2)

Pending BLM approvals will subsequently be reviewed and scanned



**2/16/2018** Notified Christy Pruitt w/BLM of Intent to **Spud Well @ 2:30 pm**. Drilling surface F/40' T/170' RPM 120, WOB all, PP 300 PSI w/117 SPM. Continue DRLG. Depth 170'. Footage 130'. **Conductor** 1 joint, 40' OD 16, weight 54.

**2/19/2018** Continue Drilling, depth 2360', 12-1/4" surface hole F/1896' T/2244', WOB 25K, RPM 100, PP 700 psi for 30 min-ok. RU Casing Crew, Run 56 joints 24#, STC, 8-5/8" surface casing, total pipe 2363.85 Set @ 2360'. Circ. Casing, RD Casing Crew, RU cementers, safety mtg.

**2/20/2018** Cut off conductor, 8-5/8" casing, weld on 8-5/8" x 5-1/2" 3M wellhead, Test to 900 psi-OK. Testing BOPS, 250 psi low, 3000 PSI Hi, Pipe and Blind Rams, Inside-Outside valves on choke manifold kill line, 4" manual, test annular 250 psi low, 1500 psi Hi, Test casing 1000 psi for 30 min-OK.

**2/24/2018** Trip in hole. Depth 5225' RU Logging Unit, Run a GR/BHC/DLL/CNL/LTD/ML. Loggers depth: 5203'. TIH Slick T/Circ. & Run 5-1/2" casing.

**2/25/2018** Cement Production Casing. RU Casing Crew, Run 124 joints 5-1/2", 15.50#, LTC, Production Casing, Total pipe 5223.44' Set @ 5220'. Test lines 4000 psi – 30 min. ok. Set slips, Cut off 5-1/2" casing, ND BOPS, Smooth cut casing, install tubing, had test T/2500 psi – 30 min ok. Jet pits, Rig Released @ 9:00 pm, 2/25/2018.

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FORM APPROVED  
OMB No. 1004-0135  
Expires: January 31, 2004

HOBBS OCD  
MAY 02 2018

**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 ☒ Oil Well ☐ Gas Well ☐ Other  
2. Name of Operator **RAW Oil & Gas, Inc.**  
3a. Address **1415 Buddy Holly Ave. Lubbock, TX. 79401** 3b. Phone No. (include area code) **806-771-7766**  
4. Location of Well (Footage, Sec., T., R., M., or Survey Description)  
**L. 19, 9-S, 38-E  
1700 S., 660 West, Lea Co. NM.**

5. Lease Serial No. **NMNM 016269**  
6. If Indian, Allottee or Tribe Name  
7. If Unit or CA/Agreement, Name and/or No. **320526**  
8. Well Name and No. **McDermott Federal #3**  
9. API Well No. **30-025-44306**  
10. Field and Pool, or Exploratory Area **Sawyer (San Andres)**  
11. County or Parish, State **Lea, NM**

**12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA**

TYPE OF SUBMISSION	TYPE OF ACTION			
<input checked="" type="checkbox"/> Notice of Intent	<input checked="" type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input checked="" type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter 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 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 of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with 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 Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

**Perforated San Andres formation (4940'-5020')  
Acidized with 16,000 gallons 20% NEFE HCl  
Acid. Started well on 4/25/18. Potential tester  
well on 5/1/18. Well produced 47 BO, 39 BW and  
43 mCFD. Well on insert rod pump (1.5")**

14. I hereby certify that the foregoing is true and correct  
Name (Printed/Typed)

**Joe D. Harder**

Title

**President**

Signature

Date

**5/1/2018**

**THIS SPACE FOR FEDERAL OR STATE OFFICE USE**

Approved by

Title

Date

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.

Office

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 false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Instructions on page 2)

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subsequently be reviewed  
and scanned



UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

HOBBS OCD

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

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

MAY 02 2018

RECEIVED

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

2. Name of Operator  
**RAW Oil & Gas, Inc**

3. Address **1415 Buddy Holly Ave, Lubbock, TX 79401** 3a. Phone No. (Include area code) **806-771-7766**

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

At surface **1700' FSL & 660' FWL**

At top prod. interval reported below **1700' FSL & 660' FWL**

At total depth **1700' FSL & 660' FWL**

14. Date Spudded **2/17/18** 15. Date T.D. Reached **2/25/18** 16. Date Completed ☐ D & A ☒ Ready to Prod.

18. Total Depth: MD **5225'** TVD **5225'** 19. Plug Back T.D.: MD **5165'** TVD **5165'**

20. Depth Bridge Plug Set: MD **NA** TVD **NA**

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

**GR/BAC/CNL/DLL/LDT**

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
<b>12.25</b>	<b>11/5-SS</b>	<b>24</b>	<b>Surface</b>	<b>2360</b>	<b>-</b>	<b>1190 "C"</b>	<b>341</b>	<b>CIR</b>	<b>0</b>
<b>7.875</b>	<b>5.5/5-SS</b>	<b>15.5</b>	<b>Surface</b>	<b>5225</b>	<b>-</b>	<b>970 "C"</b>	<b>294</b>	<b>CIR</b>	<b>0</b>

24. Tubing Record

Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)
<b>2 3/8</b>	<b>5127</b>	<b>-</b>						

25. Producing Intervals

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
<b>A) San Andres</b>			<b>4940-5020</b>	<b>0.625</b>	<b>80</b>	<b>Open</b>
B)						
C)						
D)						

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
<b>4940-5020</b>	<b>Acidized with 16,000 gallon 20% NEEF HCl Acid</b>

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
<b>4/25/18</b>	<b>5/1/18</b>	<b>24</b>	<b>→</b>	<b>47</b>	<b>43</b>	<b>39</b>	<b>35</b>	<b>0.89</b>	<b>Insert Rod Pump - 1.5"</b>
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status	
<b>-</b>	<b>400</b>	<b>40</b>	<b>→</b>	<b>47</b>	<b>43</b>	<b>39</b>	<b>915</b>	<b>Active/Producing</b>	

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

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

Pending BLM approvals will subsequently be reviewed and scanned

## 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.)

*Sold to Targa*

## 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

*See Below*

Formation	Top	Bottom	Descriptions, Contents, etc.	Name	Top
					Meas Depth
<i>San Andres</i>	<i>4908</i>	<i>5225</i>	<i>Dolomite (No DST's or Caves)</i>	<i>Rustler Salt Yates Grayburg San Andres (upper) San Andres (lower)</i>	<i>1640 2430 3075 3950 4908 5102</i>

## 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) *Joe D. Hardin* Title *President*  
 Signature *Joe D. Hardin* Date *5/1/2018*

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