

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 Marathon Oil Permian LLC. 5555 San Felipe St., Houston, TX 77056		<sup>2</sup> OGRID Number 372098
		<sup>3</sup> Reason for Filing Code/ Effective Date New Well / 01/11/2018
<sup>4</sup> API Number 30 - 01543405	<sup>5</sup> Pool Name Purple Sage; Wolfcamp	<sup>6</sup> Pool Code 96415
<sup>7</sup> Property Code 26589	<sup>8</sup> Property Name Kyle 34 Federal Com	<sup>9</sup> Well Number 3H

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

UI or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South Line	Feet from the	East/West line	County
N	34	24S	28E		200'	FSL	1670'	FWL	Eddy

**<sup>11</sup> Bottom Hole Location**

UI or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
C	34	24S	28E		330'	FNL	1670'	FWL	Eddy

<sup>12</sup> Lse Code F	<sup>13</sup> Producing Method Code P	<sup>14</sup> Gas Connection Date	<sup>15</sup> C-129 Permit Number	<sup>16</sup> C-129 Effective Date	<sup>17</sup> C-129 Expiration Date
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**III. Oil and Gas Transporters**

<sup>18</sup> Transporter OGRID	<sup>19</sup> Transporter Name and Address	<sup>20</sup> O/G/W
278421	Holly Frontier Refining & MA	O

NM OIL CONSERVATION

ARTESIA DISTRICT

APR 06 2018

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**IV. Well Completion Data**

<sup>21</sup> Spud Date 11/24/2017	<sup>22</sup> Ready Date 1/6/2018	<sup>23</sup> TD / 14,358'	<sup>24</sup> PBTD	<sup>25</sup> Perforations 9,933'-14,245'	<sup>26</sup> DHC, MC
<sup>27</sup> Hole Size	<sup>28</sup> Casing & Tubing Size	<sup>29</sup> Depth Set	<sup>30</sup> Sacks Cement		
17.5"	13.375"	429'	494		
12.25"	9.625"	2,415'	1,016		
8.75"	7"	9,585'	937		
6.125"	4.5"	8,870-14,358'	541		

**V. Well Test Data**

<sup>31</sup> Date New Oil 1-9-18	<sup>32</sup> Gas Delivery Date 1-9-18	<sup>33</sup> Test Date 1-9-18	<sup>34</sup> Test Length 24hrs	<sup>35</sup> Tbg. Pressure	<sup>36</sup> Csg. Pressure 2150
<sup>37</sup> Choke Size 32/64	<sup>38</sup> Oil 12	<sup>39</sup> Water 5278	<sup>40</sup> Gas 165		<sup>41</sup> Test Method flow

<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:

Printed name: Melissa Szudera

Title: Regulatory Compliance Representative

E-mail Address: mszudera@marathonoil.com

Date: 01/11/2018 Phone: 713-296-3179

OIL CONSERVATION DIVISION	
Approved by:	<i>Rustyn Klyn</i>
Title:	Business Ops Mgr
Approval Date:	4-10-2018

Pending BLM approvals will subsequently be reviewed and scanned

24  
12-26-18

Form 3160-4  
(June 2015)

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

APR 06 2018

**RECEIVED**

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

**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		5. Lease Serial No. NMNM102911	
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. Zones <input type="checkbox"/> Hydraulic Fracturing		6. If Indian, Allottee or Tribe Name	
Other: _____		7. Unit or CA Agreement Name and No.	
2. Name of Operator Marathon Oil Permian LLC		8. Lease Name and Well No. Kyle 34 Federal Com 3H	
3. Address 5555 San Felipe, Houston, TX 77057		9. API Well No. 30-015-43405	
4. Location of Well (Report location clearly and in accordance with Federal requirements)* N-34-24S-28E-200' FSL & 1,670' FWL At surface		10. Field and Pool or Exploratory Purple Sage; Wolfcamp	
At top prod. interval reported below		11. Sec., T., R., M., on Block and Survey or Area    34-24S-28E	
At total depth    C-34-24S-28E-330' FNL & 1,670' FWL		12. County or Parish    13. State Eddy    NM	
14. Date Spudded 11/24/2017	15. Date T.D. Reached 12/8/2017	16. Date Completed <input type="checkbox"/> D & A <input type="checkbox"/> Ready to Prod.	17. Elevations (DF, RKB, RT, GL)* 2,999' GL
18. Total Depth: MD 14,368' <b>14366</b> TVD 9686		20. Depth Bridge Plug Set: MD TVD	
19. Plug Back T.D.: MD TVD		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)	
21. Type Electric & Other Mechanical Logs Run (Submit copy of each) Mud and GR			

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
17 1/2	13 3/8	54.5	26.5'	429'		494C		25	232 sks
12 1/4	9 5/8	40	26.5'	2,415'		1,016C		25	513 sks
8 3/4	7	29	26.5'	9,585'		937C		709	CBL
6 1/8	4.5	13.5	8,870.0'	14,358'		541C		8867	113 sks

24. Tubing Record									
Size	Dept Set (MD)	Packer Dept (MD)	Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)	
25. Producing Intervals					26. Perforation Record				
Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status			
A) Wolfcamp	9498		9881-14425	0.36	930	active open			
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
9881-14425	20/50 - 4940000
	100 mesh - 6065000
	15% HCl acid 713 bbls

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
1-9-18	1-9-18	24	➡	12	165	5278			flowing
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status	
32	SI	2150	➡					active	

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	
			➡						
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)

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

## 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
				See attached	

## 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) Jennifer Van CurenTitle Sr. Regulatory ComplianceSignature Jennifer Van CurenDate 12/11/2017

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.

## INSTRUCTIONS

**GENERAL:** This form is designed for submitting a complete and correct well completion/recompletion report and log on all types of wells on Federal and Indian leases to a Federal agency, pursuant to applicable Federal laws and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from, the local Federal office. If not filed prior to the time this summary record is submitted, copies of all currently available logs (drillers, geologists, sample and core analysis, and all types electric), formation and pressure tests, and directional surveys, should be attached hereto, to the extent required by applicable Federal laws and regulations. All attachments should be listed on this form, see item 33.

**ITEM 4:** Locations on Federal or Indian land should be described in accordance with Federal requirements. Consult local Federal office for specific instructions.

**ITEM 17:** Indicate which reported elevation is used as reference (where not otherwise shown) for depth measurements given in other spaces on this form and in any attachments.

**ITEM 23:** Show how reported top(s) of cement were determined, i.e. circulated (CIR), or calculated (CAL), or cement bond log (CBL), or temperature survey (TS).

## NOTICES

The Privacy Act of 1974 and the regulation in 43 CFR 2.48 (d) provide that you be furnished the following information in connection with information required by this application.

**AUTHORITY:** 30 U.S.C. 181 et seq., 351 et seq., 25 U.S.C. et seq.; 43 CFR 3160.

**PRINCIPAL PURPOSE:** The information is to be used to evaluate the actual operations performed in the drilling, completing and testing of a well on a Federal or Indian lease.

**ROUTINE USES:** (1) Evaluate the equipment and procedures used during the drilling and completing/recompleting of a well. (2) The review of geologic zones and formation encountered during drilling. (3) Analyze future applications to drill in light of data obtained and methods used. (4)(5) Information from the record and/or the record will be transferred to appropriate Federal, State, local or foreign agencies, when relevant to civil, criminal or regulatory investigations or prosecutions.

**EFFECT OF NOT PROVIDING INFORMATION:** Filing of this report and disclosure of the information is mandatory once a well drilled on a Federal or Indian lease is completed/recompleted.

The Paperwork Reduction Act of 1995 requires us to inform you that:

The BLM collects this information to allow evaluation of the technical, safety, and environmental factors involved with drilling and completing/recompleting wells on Federal and Indian oil and gas leases.

This information will be used to analyze operations and to compare equipment and procedures actually used with those proposed and approved.

Response to this request is mandatory only if the operator elects to initiate drilling and completing/recompleting operations on an oil and gas lease.

The BLM would like you to know that you do not have to respond to this or any other Federal agency-sponsored information collection unless it displays a currently valid OMB control number.

**BURDEN HOURS STATEMENT:** Public reporting burden for this form is estimated to average 8 hours per response, including the time for reviewing instructions, gathering and maintaining data, and completing and reviewing the form. Direct comments regarding the burden estimate or any other aspect of this form to U.S. Department of the Interior, Bureau of Land Management (1004-0137), Bureau Information Collection Clearance Officer (WO-630), 1849 C Street, N.W., Mail Stop 401 LS, Washington, D.C. 20240.

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT  
APR 06 2018FORM APPROVED  
OMB NO. 1004-0137  
Expires: January 31, 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.**5. Lease Serial No.  
NMNM102911

6. If Indian, Allottee or Tribe Name

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

8. Well Name and No.  
KYLE 34 FEDERAL COM 3H9. API Well No.  
30-015-4340510. Field and Pool or Exploratory Area  
PURPLE SAGE WOLFCAMP11. County or Parish, State  
EDDY COUNTY, NM**SUBMIT IN TRIPLICATE - Other instructions on page 2**

1. Type of Well

☐ Oil Well ☒ Gas Well ☐ Other

2. Name of Operator

MARATHON OIL PERMIAN, LLC

Contact: JENNIFER E VAN CUREN

E-Mail: jvancuren@marathonoil.com

3a. Address

5555 SAN FELIPE RD  
HOUSTON, TX 77057

3b. Phone No. (include area code)

Ph: 713-296-2500

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

Sec 34 T24S R28E Mer NMP SESW 200FSL 1670FWL

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

TYPE OF SUBMISSION	TYPE OF ACTION			
<input type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input checked="" type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Hydraulic Fracturing	<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 checked="" type="checkbox"/> Other
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	Production Start-up
	<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 recomplete 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 must be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 must be filed once testing has been completed. Final Abandonment Notices must be filed only after all requirements, including reclamation, have been completed and the operator has determined that the site is ready for final inspection.

12/23/2017 MIRU calfrac, 12/26/17 start frac stages 1-31 with 3 shots per foot for a total of 930 shots 0.36 in size in the wolfcamp formation using 100 mesh and 20/50 sand. Stimulated with 15% HCl acid. 1/6/18 - opened well to flowback. First oil on 1-9-18. Turned over to production.

Emailed completion report due to errors when trying to send from WIS.

14. I hereby certify that the foregoing is true and correct.

**Electronic Submission #403013 verified by the BLM Well Information System  
For MARATHON OIL PERMIAN, LLC, sent to the Carlsbad**

Name (Printed/Typed) JENNIFER E VAN CUREN

Title SR. REGULATORY COMPLIANCE REP

Signature (Electronic Submission)

Date 02/01/2018

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

Approved By

Title

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

Pending BLM approvals will  
subsequently be reviewed  
and scanned

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.

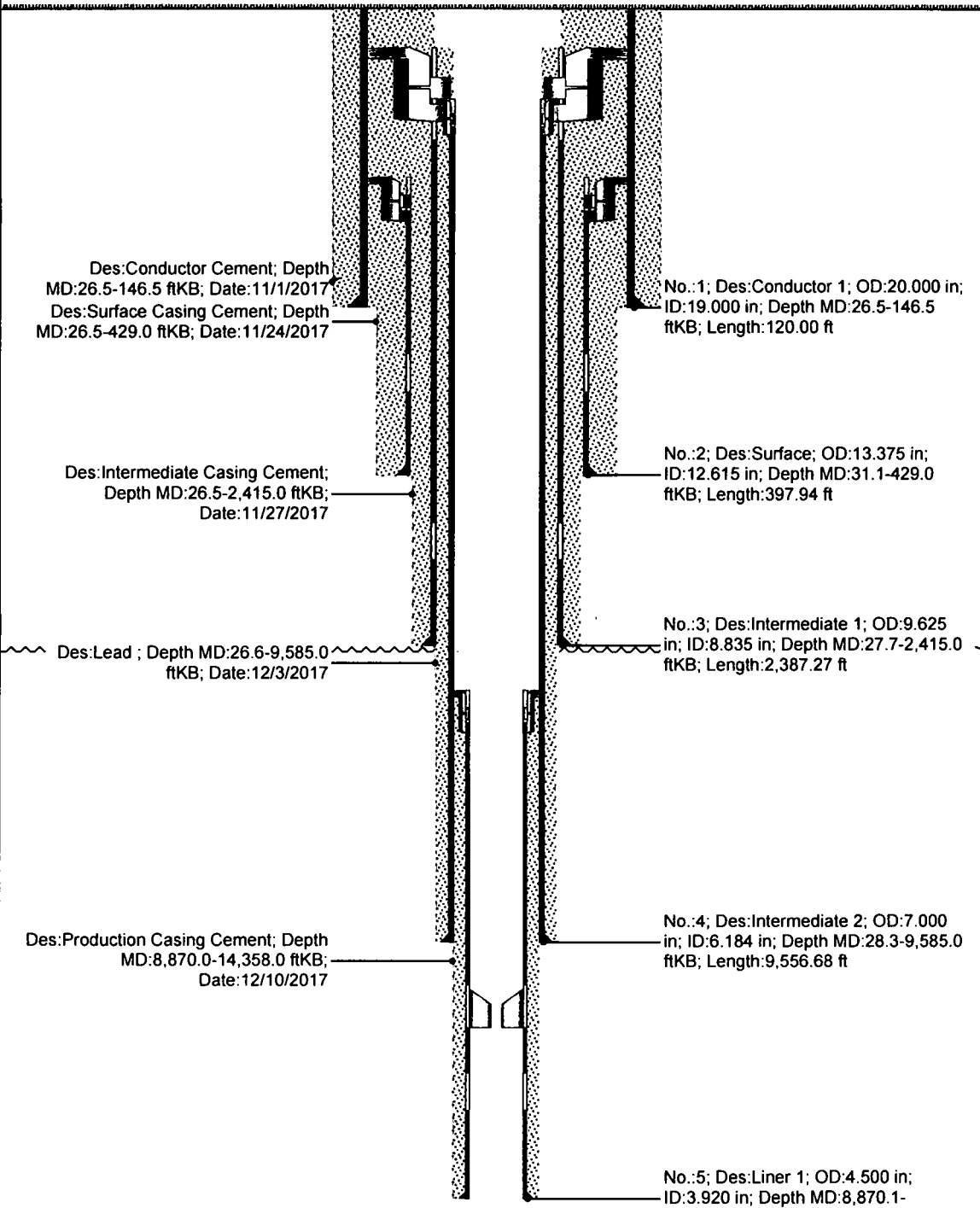
Department or agency of the United

## Wellbore Schematic

### Well Name: KYLE 34 FEDERAL COM 3H

State/Province NEW MEXICO	Prospect Area MALAGA	Field Name WILLOW LAKE WEST	Well Subtype	Lat/Long Datum NAD27	Latitude (") 32.166725	Longitude (") -104.078108
Well Configuration Type HORIZONTAL	Well Objective EXPLOITATION	Well Status DRILLING	Ground Elevation (ft) 2,999.00	KB-Ground Distance (ft) 26.50		

#### HORIZONTAL - KYLE 34 FEDERAL COM 3H, 2/1/2018 1:42:09 PM

MD (ftKB)	TVD (ftKB)	Incl (°)	Vertical schematic (actual)
26.6	26.9	2.4	 <p>Des: Conductor Cement; Depth MD:26.5-146.5 ftKB; Date:11/1/2017 Des: Surface Casing Cement; Depth MD:26.5-429.0 ftKB; Date:11/24/2017</p> <p>No.:1; Des: Conductor 1; OD:20.000 in; ID:19.000 in; Depth MD:26.5-146.5 ftKB; Length:120.00 ft</p> <p>Des: Intermediate Casing Cement; Depth MD:26.5-2,415.0 ftKB; Date:11/27/2017</p> <p>No.:2; Des: Surface; OD:13.375 in; ID:12.615 in; Depth MD:31.1-429.0 ftKB; Length:397.94 ft</p> <p>Des: Lead ; Depth MD:26.6-9,585.0 ftKB; Date:12/3/2017</p> <p>No.:3; Des: Intermediate 1; OD:9.625 in; ID:8.835 in; Depth MD:27.7-2,415.0 ftKB; Length:2,387.27 ft</p> <p>Des: Production Casing Cement; Depth MD:8,870.0-14,358.0 ftKB; Date:12/10/2017</p> <p>No.:4; Des: Intermediate 2; OD:7.000 in; ID:6.184 in; Depth MD:28.3-9,585.0 ftKB; Length:9,556.68 ft</p> <p>No.:5; Des: Liner 1; OD:4.500 in; ID:3.920 in; Depth MD:8,870.1-</p>
27.9	28.2	2.4	
28.2	28.5	2.4	
29.2	29.5	2.4	
31.2	31.5	2.4	
32.5	32.8	2.4	
41.3	41.6	2.4	
146.7	146.8	2.4	
386.2	386.1	2.4	
387.5	387.4	2.4	
427.5	427.4	2.4	
429.1	429.1	2.4	
2,369.8	2,368.9	2.7	
2,371.4	2,370.5	2.7	
2,413.4	2,412.5	2.3	
2,415.0	2,414.1	2.3	
8,870.1	8,864.8	0.3	
8,897.0	8,891.7	0.3	
8,907.2	8,901.9	0.4	
9,534.8	9,484.0	46.6	
9,536.1	9,484.9	46.8	
9,563.3	9,514.4	52.1	
9,585.0	9,515.4	52.2	
14,269.7	9,678.5	85.8	
14,271.3	9,678.6	85.8	
14,311.0	9,681.5	85.8	
14,312.7	9,681.6	85.8	
14,356.0	9,684.8	85.8	
14,357.9	9,684.9	85.8	

Directions to Well: From the intersection of US Highway 62/West Greene Street and US 180 W/US 62W/S Canal Street in Carlsbad, NM, travel south on US 180 W/US 62W/S Canal Street toward W Tansill Street for 2.0 miles to a slight left turn onto US 285 S. for 18.8 miles to a lease road on the right. Travel west on lease road for 0.3 miles to lease road on the left. Travel south on lease road for 0.4 miles to proposed well 150 feet to the left.