

District I  
1625 N. French Dr , Hobbs, NM 88240  
District II  
1301 W. Grand Avenue, 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 Feb. 26, 2007

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

Submit to Appropriate District Office  
5 Copies

☐ AMENDED REPORT

I. REQUEST FOR ALLOWABLE AND AUTHORIZATION TO TRANSPORT

<sup>1</sup> Operator name and Address <b>BOPCO, L.P.</b> <b>P.O. Box 2760</b> <b>Midland, TX 79702</b>		<b>RECEIVED</b> <b>NOV 25 2009</b>	<sup>2</sup> OGRID Number <b>260737</b>	
<sup>4</sup> API Number <b>30 -015-37063</b>			<sup>3</sup> Reason for Filing Code/ Effective Date <b>NW11/11/09</b>	
<sup>5</sup> Pool Name <b>Quahada Ridge, SE (Delaware)</b>		<b>NMOCD ARTESIA</b>	<sup>6</sup> Pool Code <b>50443</b>	
<sup>7</sup> Property Code <b>306407</b>			<sup>8</sup> Property Name <b>James Ranch Unit</b>	
			<sup>9</sup> Well Number <b>106H</b>	

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
<b>L</b>	<b>36</b>	<b>22S</b>	<b>30E</b>		<b>1595'</b>	<b>South</b>	<b>1096'</b>	<b>West</b>	<b>Eddy</b>

<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
<b>L</b>	<b>35</b>	<b>22S</b>	<b>30E</b>		<b>2011'</b>	<b>South</b>	<b>378'</b>	<b>West</b>	<b>Eddy</b>
<sup>12</sup> Lse Code <b>F</b>	<sup>13</sup> Producing Method Code <b>Flowing</b>	<sup>14</sup> Gas Connection Date <b>11/11/2009</b>	<sup>15</sup> C-129 Permit Number	<sup>16</sup> C-129 Effective Date	<sup>17</sup> C-129 Expiration Date				

III. Oil and Gas Transporters

<sup>18</sup> Transporter OGRID	<sup>19</sup> Transporter Name and Address	<sup>20</sup> O/G/W
<b>35246</b>	<b>Shell Trading US Company</b> <b>P.O. Box 4604</b> <b>Houston, Texas 77210-4604</b>	<b>OI</b>
<b>020809</b>	<b>Southern Union Gas Servcies, Ltd.</b> <b>301 Commerce, Suite 700</b> <b>Ft. Worth, Texas 76102</b>	<b>GA</b>

IV. Well Completion Data

<sup>21</sup> Spud Date <b>09/09/2009</b>	<sup>22</sup> Ready Date <b>10/06/2009</b>	<sup>23</sup> TD <b>13234'</b>	<sup>24</sup> PBTD	<sup>25</sup> Perforations <b>8,110'-13,134'</b>	<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		
<b>17-1/2"</b>	<b>13-3/8"</b>	<b>625' TVD</b>	<b>600 sxs</b>		
<b>12-1/4"</b>	<b>9-5/8"</b>	<b>3810' TVD</b>	<b>1300 sxs</b>		
<b>8-3/4"</b>	<b>7"</b>	<b>7651'</b>	<b>1042 sxs</b>		
<b>6-1/8"</b>	<b>4-1/2"</b>	<b>13234'</b>	<b>na</b>		

V. Well Test Data **2-7/8"** **6478.54'**

<sup>31</sup> Date New Oil <b>11/11/2009</b>	<sup>32</sup> Gas Delivery Date <b>11/11/2009</b>	<sup>33</sup> Test Date <b>11/19/2009</b>	<sup>34</sup> Test Length <b>24 hrs</b>	<sup>35</sup> Tbg. Pressure <b>420</b>	<sup>36</sup> Csg. Pressure <b>370</b>
<sup>37</sup> Choke Size <b>WO</b>	<sup>38</sup> Oil <b>625</b>	<sup>39</sup> Water <b>1161</b>	<sup>40</sup> Gas <b>505</b>		<sup>41</sup> Test Method <b>Flowing</b>

<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:

*Valerie Truax*

Printed name:

**Valerie Truax**

Title:

**Regulatory Administrative Assistant**

E-mail Address:

**vltruax@basspet.com**

Date:

**11/23/2009**

Phone:

**(432)683-2277**

OIL CONSERVATION DIVISION

Approved by:

**DENIED** **3/24/2010** **RM**  
**By Lewis "Randy" Dade**  
**OCD District #2 Supervisor**  
**575/748-1283 Ext. 102**

Title:

Approval Date:

**DENIED**

Operator BOPCO James Ranch Ut #106H

API 30-0 15 - 37063 Lse Type F S P

Date C104 rec'd 11/25/09

Inactive Well List //  
Additional Bonding           

*Conf. expired 1/6/09*

Pit permit online

<u>Spud</u> notice <u>      </u> / <u>      </u> / <u>      </u>			
Surface casing <u>      </u>	PT <u>      </u>	amended <u>      </u>	
Intermediate <u>      </u>	PT <u>      </u>	amended <u>      </u>	
Production csg <u>      </u>	PT <u>      </u>	amended <u>      </u>	
	TOC <u>      </u>		
		TD reached <u>      </u> / <u>      </u> / <u>      </u>	
		Rig Rel'd <u>      </u> / <u>      </u> / <u>      </u>	

Deviation Survey 7 @ JR  
Directional Survey 2/12/10 to SH        /        /        from SH        /        /         
MD        TVD       

Subsequent Plat        BH Location       

Completion sundry        /        /         
Completion report        /        /       

? Logs online

COMPLIANCE: NSL         
DHC        ART       

OTHER REQUIREMENTS: P/W Deadline        /        /       

on prod 11/11/09

       PENDING STATUS NOTED IN RBDMS / COMMENTS

Inactive Well List //  
Additional Bonding       

Date C014 approved

## Bratcher, Linda, EMNRD

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**From:** Sharp, Karen, EMNRD  
**Sent:** Friday, February 12, 2010 4:04 PM  
**To:** Bratcher, Linda, EMNRD  
**Subject:** FW: James Ranch Unit #106H  
**Attachments:** Form Requirements.doc

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**From:** Sharp, Karen, EMNRD  
**Sent:** Friday, February 12, 2010 4:01 PM  
**To:** 'vltruax@basspet.com'  
**Subject:** James Ranch Unit #106H

We currently have no drilling sundries on file for the above well. One sundry which has been submitted indicates the well was placed on production 11/11/09. Please be advised that you are out of compliance with this well: you are NOT AUTHORIZED to produce the well until a C-104 has been approved. Please review attached and submit information critical to approval of the C-104.

If you have any questions, please contact Randy Dade in the Artesia district office. Thank you.

*Karen Sharp*



*"There are many things in life that will catch your eye, but only a few will catch your heart...pursue those..."*

## Bratcher, Linda, EMNRD

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**From:** Sharp, Karen, EMNRD  
**Sent:** Monday, February 15, 2010 7:21 AM  
**To:** Bratcher, Linda, EMNRD  
**Subject:** FW: James Ranch Unit #106H

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**From:** Truax, Valerie L. [mailto:VLTruax@BassPet.Com]  
**Sent:** Monday, February 15, 2010 6:12 AM  
**To:** Sharp, Karen, EMNRD  
**Cc:** Dade, Randy, EMNRD; Reeves, Jacqueta, EMNRD  
**Subject:** RE: James Ranch Unit #106H

Karen, I submitted a C-104 (dated Nov 23, 2009 & received by NMOCD on Nov 25, 2009) and am waiting on NMOCD to approve. I did submit a corrected C-104 (transporter OGRID # for SUGS was incorrect) - this one was received by the NMOCD on Dec 02, 2009. Please advise. Thanks. Valerie

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**From:** Sharp, Karen, EMNRD [mailto:karen.sharp@state.nm.us]  
**Sent:** Friday, February 12, 2010 5:01 PM  
**To:** Truax, Valerie L.  
**Subject:** James Ranch Unit #106H

We currently have no drilling sundries on file for the above well. One sundry which has been submitted indicates the well was placed on production 11/11/09. Please be advised that you are out of compliance with this well: you are NOT AUTHORIZED to produce the well until a C-104 has been approved. Please review attached and submit information critical to approval of the C-104.

If you have any questions, please contact Randy Dade in the Artesia district office. Thank you.

*Karen Sharp*



*"There are many things in life that will catch your eye, but only a few will catch your heart...pursue those..."*

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Jo Bess  
2/15/10

## C-104 APPROVAL INFORMATION

Forms C101, C102, and pit permit (when applicable) for all wells should be approved and on file prior to spudding:

*NMOCD Rule 19.15.1.14 UNITED STATES GOVERNMENT LEASES:*

*Operator shall file or cause to be filed with the division copies of "application for permit to drill, deepen or plug back," (BLM form no. 3160-3), "sundry notices and reports on wells," (BLM form no. 3160-5), and "well completion or recompletion report and log," (BLM form no. 3160-4), as approved by the bureau of land management for wells on U.S. government land. [1-1-50...2-1-96; 19.15.1.14 NMAC - Rn, 19 NMAC 15.A.14, 5-15-01]*

Subsequent drilling sundries should following the drilling plan set forth therein. Drilling Pit Permit on Federal wells may accompany the Application to Drill: it will be forwarded to the OCD by the BLM. If it is not attached to the APD, it should be submitted on Form C103 or C144 and approved prior to beginning any pit construction work on location.

The following must be received and approved prior to approval of the C104:

- 1) *Form C101 DRILLING APPLICATION*
- 2) *Form C102 ACREAGE DEDICATION PLAT*
- 3) *Drilling / Workover PIT PERMIT*
- 4) *Form C103 SUNDRY NOTICES AND REPORTS ON WELLS*
- 5) *Form C105 WELL COMPLETION OR RECOMPLETION REPORT AND LOG*
- 6) *DEVIATION / DIRECTIONAL SURVEY*
- 7) *COMPLETE SET OF LOGS*

*NMOCD Rule 19.15.13.1128 FORMS REQUIRED ON FEDERAL LAND:*

A. Federal forms shall be used in lieu of state forms when filing application for permit to drill, deepen or plug back and sundry notices and reports on wells and well completion or recompletion report and log for wells on federal lands in New Mexico. However, it shall be the duty of the operator to submit two extra copies of each of such forms to the BLM....The following BLM forms will be used in lieu of division forms by operators of wells on federal land:

<u>BLM Form No</u>	<u>Title of Form</u>	<u>Form No.</u>
(Same for both agencies)		
3160-3	Application for Permit to Drill, Deepen or Plug Back	C-101
(Nov. 1993)		
3160-5	Sundry Notices and Reports on Wells	C-103
(Nov. 1983)		
3160-4	Well Completion or Recompletion Report and Log	C-105
(Nov. 1983)		

**Form C104** will include the following information:

Operator name and address

OGRID

Reason for filing code:

**NW** New Well

**RC** Recompletion

**RT** Request for test allowable (Include volume requested)

If for any other reason write that reason in this box.

API number

Pool Name (*a separate C-104 will be provided for each individual pool*)

Pool Code (from plat, or available from our web page):

*OCD Online*

*Statistics*

*Useful Information*

*Pool Codes and Names*

Property Code (list available from our web page):

*OCD Online*

*E-Permitting*

*Well List : enter OGRID*

Property Name

Well Number

Surface Location, S-T-R + footages

Bottom Hole Location, S-T-R + footages, per C102 (plat) or Directional

Survey

Lease Code

**F** Federal

**S** State

**P** Private / Fee

**J** Jicarilla

**N** Navajo

**U** Ute Mountain Ute

**I** Other Indian Tribe

Transporter Name, if available

Spud Date

Ready to produce Date

TD (measured depth)

PBTD (measured depth)

Perforations (top and bottom of producing interval: should include open hole if applicable)

DHC or MC order number

DHC-9999 (Santa Fe approved commingled orders)

AZT-9999 (Aztec District approved commingled orders)

Casing and Tubing Record

Well Test Data; If not available, follow up with Form C103 when well is placed on production.

Operator signature

*On ALL sundries and reports, etc., submitted for a well, verify that the API number, well name and number, and location listed on the form are correct for that well. If one of these is incorrect, we have no way to determine which is wrong, and which well is actually being reported.*

**Form C103: SPUD NOTICE**

Indicate the hour and the date the well was spud, per Rule 1103 C, submitted within 10 days of spud.

**Form C103: CASING REPORT**

Casing and cement sundry is to be submitted within 10 days following the setting of each string of casing or liner. Sundry should include: Hole size; TD of hole and date reached; size, grade, and weight of casing; and cementing procedure, noting Top of Cement for each stage and the means by which top was determined, and pressure test. Present a detailed description of the test method employed to determine TOC and the results obtained by such test and any other pertinent information required by 19.15.1.107 NMAC.

**NOTE:** All casing strings except conductor pipe shall be tested after cementing and before commencing any other operations on the well. In the case of combination strings utilizing pipe of varied grades or weights, the footage of each grade and weight used shall be reported. The results of the casing test, including actual pressure held on pipe and the pressure drop observed shall also be reported on the **same Form C-103**.

Minimum casing test pressure shall be approximately one-third of the manufacturer's rated internal yield pressure except that the test pressure shall not be less than 600 pounds per square inch and need not be greater than 1500 pounds per square inch. Test pressures shall be

**EXAMPLE:**

1-1-1900 Spud well 10:30 a.m. Drld 12.25" hole to 310'. Ran 7 jts 8.625" 24# J-55 csg. Set at 305'. Halliburton cmt d w/225 sx Class G, 1/4#/sk Flocele, 2% CaCl (266 cu ft.). Circulated 20 bbls cmt to surf. PT csg 750# 30 min – ok.

**EXAMPLE:**

4-1-1900 TIH w/6 jts 5-1/2" N-80, 17# csg. Set **liner** @ TD 4100', top of liner @ 3851' (62' overlap). Perf'd 3950-3975 w/2 JSPF. TIH w/130 jts 2-7/8" 6.5# J-55 tubing, set @ 3965'. RR 4/1/1900.

### **Form C103 COMPLETION SUNDRY**

Describe *all* work done ((i.e., logs to include date and type of log(s), pressure tests conducted and results obtained)) on well **to be ready to produce**. Include: date of work done; setting of bridge plugs; perforating; tubing record; logs, if run; any other operations which affect the well's status, as per Rule 1103 B.2. Sundry should also include a tubing record for all wells with a production string of greater than 2-7/8", per Rule 107.J.

#### **Well Tubing Requirements**

- 1) All flowing oil wells equipped with casing larger in size than 2 7/8-inch OD shall be tubed.
- 2) All gas wells equipped with casing larger in size than 3-1/2-inch OD shall be tubed.
- 3) Tubing shall be set as near the bottom as practical and tubing perforations shall not be more than 250 feet above top of pay zone. **Rule 19.15.3.107**

#### **EXAMPLE:**

12-30-06 *MIRU PU (or rigless completion)*

1-1-07 *Blue Jet ran CBL, GR, GSL, CCL from PBTD 4932' to surface. TOC @ 1300'.*

1-3-07 *Perf 4800-4831 w/2 JSPF. Frac w/40,000# 10-20 sand @ 8500 psi. A/perfs 4800-4831 w/1000 gals 15% acid. PU and ran 156 jts 2-3/8" 4.7# J-55 EUE 8rd tubing, set @ 4826'. ND BOP. RD.*

2-6-07 *Turned well over to production.*

### **Form C103 RECOMPLETION SUNDRY**

A recompletion is work done on a well after initial completion and production which directly affects the well's original status. This could result by adding pay to the original zone; zone abandoning the original zone and recompleting to another zone; completing an additional zone and downhole commingling with the existing zone(s), or completing an additional zone and producing as a multiple completion. Form C102 (plat) must be submitted for additional pools not already on file.

Form C103 with a summary of operations outlining work done and the manner in which such work was performed; the size and depth of shots; the quantity of crude, chemical or other materials employed in the operation, and any other pertinent information, per Rule 1103.G. It is critical that the date of the work is reported, as that date will be reflected as the status change date and should compliment C-115 reporting.

If a 24-hour potential test is not available prior to putting the well on production in a new pool, the C-104 may be submitted without this information provided a follow-up C-103 w/test results is subsequently filed. In the event of downhole commingling, the production tests should reflect allocations as set forth in the downhole commingle order for each pool, and *a separate C-104 will be provided for each individual pool.*



*EXAMPLE (add pay):*

*1-1-1900 MI RU PU. RIH w/RBP, set @ 4750'. Tested plug 1500# 15 min – good test. Perf 4600-4621' w/2 JSPF. A/perfs w/1000 gals 15% acid. POH w/RBP. Producing interval 4600-4831'.  
1-2-1900 TIH w/2-3/8 J-55 4.7# tbg, set @ 4760'. RD. Turned well back to production.*

*EXAMPLE (recompletion):*

*1-15-1900 MIRU.  
1-16-1900 TIH. SET 4.5 CIBP @ 1350'. Tsted to 550 psi; held good. Ran Integrity log & CBL to PBSD 1350'. Perf FC 1300-1330' w/2 JSPF.  
1-17-1900 TIH w/pkr, set @ 1271'. Pressure test lines to 4000 psi. Frac w/500 gals 15% HCL & flushed w/8 bbls 2% KCL. Unseat pkr; TOH. Ran 2-3/8", J-55 4.7# tbg, set @ 1320'. RDMO. Well producing as single from MV 1-17-1900.*

**Form C105 WELL COMPLETION OR RECOMPLETION REPORT**

Within 20 days following the completion or recompletion of any well, the operator shall file form C-105. It should be accompanied by a summary of all special tests conducted on the well, including drill stem tests. In addition, ***one copy of all logs*** run on the well must be filed.

In the case of a dry hole, a complete record of the well on form C105 with the above requirements shall accompany the notice of intent to plug the well, unless previously filed. The plugging report will not be approved nor the bond released until this is done.

**DEVIATION / DIRECTIONAL SURVEY**

Any vertical or deviated well which is drilled or deepened shall be tested at reasonably frequent intervals to determine the deviation from the vertical. Such tests shall be made at least once each 500 feet or at the first bit change succeeding 500 feet. A tabulation of all deviation tests run, sworn to and notarized should be file with, or prior to, Form C104.

When the deviation averages more than five degrees in any 500-foot interval, the operator shall include the calculations of the maximum possible horizontal displacement of the hole. When the maximum possible horizontal displacement exceeds the distance to the nearest outer boundary line of the appropriate unit, the operator shall run a directional survey to establish the location of the producing interval(s). 19.15.3.111 B.

Wells air-drilled below Intermediate TD require a deviation survey at TD. After review, OCD may require a bottom hole position survey to determine standard or non-standard bottom hole location.

## **Well Compliance Deadlines:**

Commencement of drilling operations (spud)	10 days
Casing and cement test	10 days
Altering well's casing installation	10 days
Work to secure approved TA	30 days
Plugging back or deepening / same pool	20 days
Remedial work	30 days
Installation of artificial lift equip	30 days
All other operations not specified above	10 days

Completion Report + logs (C-105, 3160-4)	20 days
Deviation / Directional Survey	Filed with or prior to C104
C104 Authorization to Transport	Approval prior to producing well

Plug and Abandonment 30 days  
(Form C105 must accompany notice of intent to P&A if not previously filed)

***Please note:*** Each form submitted on a well should include the date(s) the work was performed on the well, especially particular dates which affect the status of a well or given pool (i.e., CIBP set @ 4050' 10/01/06 )