

## OCD-ARTESIA

Form 3160-4  
(April 2004)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

1a. Type of Well <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Dry <input type="checkbox"/> Other		5. Lease Serial No. <b>NMNM110829</b>
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. Resvr. Other _____		6. If Indian, Allottee or Tribe Name
2. Name of Operator <b>BC Operating, Inc.</b>		7. Unit or CA Agreement Name and No.
3. Address <b>P.O. Box 50820, Midland TX 79710-0820</b>	3a. Phone No. (include area code) <b>432-684-9696</b>	8. Lease Name and Well No. <b>Jitterbug Federal #2</b>
4. Location of Well (Report location clearly and in accordance with Federal requirements)* At surface <b>2280' FNL &amp; 1290' FEL, Unit H</b> At top prod. interval reported below <b>Sec 24, T24S, R28E</b> At total depth		9. AFI Well No. <b>30-015-37491</b>
10. Field and Pool, or Exploratory <b>Malaga, Delaware 42940</b> <i>IN</i>		11. Sec., T., R., M., on Block and Survey or Area <b>S 24, T24S, R28E</b>
12. County or Parish <b>Eddy</b>		13. State <b>NM</b>
14. Date Spudded <b>08/14/2010</b>	15. Date T.D. Reached <b>08/19/2010</b>	16. Date Completed <b>11/04/2010</b> <input type="checkbox"/> D & A <input checked="" type="checkbox"/> Ready to Prod.
17. Elevations (DF, RKB, RT, GL)* <b>2996 GL</b>		
18. Total Depth: MD <b>3040'</b> TVD	19. Plug Back T.D.: MD TVD	20. Depth Bridge Plug Set: MD TVD
21. Type Electric & Other Mechanical Logs Run (Submit copy of each) <b>GR CCL</b>		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 checked="" type="checkbox"/> No <input type="checkbox"/> 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 Cement	Slurry Vol. (BBL)	Cement Top*	Amount Pulled
12 1/4"	J55	32#	0	421'	Cir	337 Class C		surface	0
7 7/8"	J55	15.5#	377	3020'	Cir	900 Class C		surface	0

## 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 7/8	2815'	2815' SN						

## 25. Producing Intervals

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A) <b>Malaga; Delaware</b>	<b>2726'</b>	<b>2740'</b>	<b>2726-2740'</b>		<b>4 spf</b>	<b>Open</b>
B)						
C)						
D)						

## 27. Acid, Fracture, Treatment, Cement Squeeze, etc.

Depth Interval	Amount and Type of Material
<b>2726-2740'</b>	<b>Acidized w/2,100 gals 15% HCL</b>
<b>2726-2740'</b>	<b>Frac w/5,000 gals &amp; 25,000# 20/40 sand</b>

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## 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>12/02/2010</b>	<b>12/20/2010</b>	<b>24</b>	<b>→</b>	<b>16.48</b>	<b>0</b>	<b>440</b>			<b>Pumping</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>						

## 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>						

ACCEPTED FOR RECORD

FEB 14 2011

/s/ Dustin Winkler

BUREAU OF LAND MANAGEMENT  
CARLSBAD FIELD OFFICE

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

*NS*

## 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.)

N/A

## 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
<b>Rustler</b>	<b>1190'</b>				
<b>Salado</b>	<b>1590'</b>				
<b>Delaware Mtn Gp</b>	<b>2680'</b>				

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Carlsbad Field Office  
Carlsbad, N.M.

32. Additional remarks (include plugging procedure):

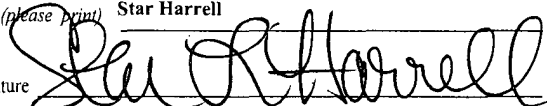
33. Indicate which items have been attached by placing a check in the appropriate boxes:

- ☒ 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) **Star Harrell**Title **Regulatory Analyst**

Signature


Date **01/09/2011**

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.