

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

OCD Hobbs

HOBBS OCD

FORM APPROVED  
OMB No 1004-0137  
Expires October 31, 2014

## 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  
LC050107A

Indian, Allottee or Tribe Name

SUBMIT IN TRIPLICATE - Other instructions on page 2

RECEIVED

Unit of CA/Agreement, Name and/or No.

## 1 Type of Well

☒ Oil Well ☐ Gas Well ☐ Other8. Well Name and No  
Mary E. Wills 'A' Federal #182 Name of Operator  
BC Operating, Inc.9 API Well No  
30-025-342183a Address  
P O Box 50820  
Midland, Texas 797103b Phone No (include area code)  
432-684-969610 Field and Pool or Exploratory Area  
Rhodes; Yates-Seven Rivers

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

Unit A, Section 34, T-26S, R-37E, 330' FNL &amp; 990' FEL, Lea County

11 County or Parish, State  
Lea County, New Mexico

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

## TYPE OF SUBMISSION

## TYPE OF ACTION

☒ Notice of Intent☐ Acidize☐ Deepen☐ Production (Start/Resume)☐ Water Shut-Off☐ Subsequent Report☐ Alter Casing☐ Fracture Treat☐ Reclamation☐ Well Integrity☐ Final Abandonment Notice☐ Casing Repair☐ New Construction☐ Recomplete☒ Other☐ Change Plans☐ Plug and Abandon☐ Temporarily Abandon

Add Pay

☐ Convert to Injection☐ Plug Back☐ 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 recompletable 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 recompletable 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.)

Request to acidize current perfs (3292' to 3342') and add pay to Yates formation: 3150' to 3232':

MIRU pulling unit and TOH with all production equipment. Scanalog 2-7/8" tubing out of hole, replacing green and red band pipe with new TIH with bit and bailer 2-7/8" production tubing. Clean well out to PBTD. TOH with bit and bailer. Set frac tanks.

TIH with packer on 2-7/8" production tubing. Set packer at 3200'. Rig up pumping services company. Monitor backside pressure during acid job. Acidize Rhodes Yates perforations 3292'- 3342' with 3000 gallons (80/20 15% HCl and toluene) in 3 stages with rock salt in 10# brine as diverter. Avg rate 4 BPM. Overflush bottom perforation with 100 bbl freshwater. TOH with packer.

Rig up wireline. Correlate to SLB open hole log dated 12/8/1997. Set CffP at 3270' with 2 sx cmt on top. Perforate the Yates formation w/3-1/8" Slick guns w /60 degree phasing & Titan 23 gram Olarges (EH-0.43, Pen-37)

TIH w/5 1/2" full bore stimulation packer on 3 1/2" N-80 workstring. Set packer @ +/-3100'. Pressure test backside & note any leaks. Frac Yates (3150' - 3232', 78 holes) TOH w/treating packer & LD workstring. TIH w/4 1/2" bit & collars on 2 7/8" production tubing. DO CIBP @ 3270' & CO well to 3442'. TIH w/MA, 2 7/8" production tbg, TAC, GA & pump.

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

Pam Stevens

Title Regulatory Analyst

Signature

Pam Stevens

Date 08/07/2012

ACCEPTED FOR RECORD

## THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by

Title

Office

NOV 11 2012

BUREAU OF LAND MANAGEMENT  
LEA COUNTY FIELD OFFICE

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 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 on page 2)

NOV 15 2012

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

NOV 14 2012  
RECEIVED

FORM APPROVED  
OMB No 1004-0137  
Expires October 31, 2014

**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.**

Lease Serial No.  
LC050107A

6 If Indian, Allottee or Tribe Name

**SUBMIT IN TRIPLICATE** - Other instructions on page 2.

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

1 Type of Well

☒ Oil Well ☐ Gas Well ☐ Other

8 Well Name and No  
Mary E. Wills 'A' Federal #18 *WILLS FEDERAL 18*

2 Name of Operator  
BC Operating, Inc.

9 API Well No.  
30-025-34218

3a. Address  
P O Box 50820  
Midland, Texas 79710

3b. Phone No (include area code)

432-684-9696

10. Field and Pool or Exploratory Area  
Rhodes; Yates-Seven Rivers

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

Unit A, Section 34, T-26S, R-37E, 330' FNL & 990' FEL, Lea County

11 County or Parish, State  
Lea County, New Mexico

**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 checked="" 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 checked="" 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 checked="" type="checkbox"/> Other Add Pay
	<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 recompleate 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 recompleation 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 )

08/09/12 - Acidized 5 1/2" Yates perms from 3292' - 3342' w/3000 gals 80/20 15% HCL & 2000# Rock Salt.

08/13/12 - Set CIBP @ 3270' & perforated Yates perms 3228' - 3232', 3216' - 3221', 3166' - 3186' & 3150' - 3170'. Dumped 2 sx cmt on CIBP.

08/14/12 - Test csg to 500# - held.

08/15/12 - Acidized 5 1/2" perms 3150' - 3232' w/3000 gals 15% acid.

Fraced w/61,260 lbs 16/30 brady sand & 50,120 lbs 16/30 SLC.

08/17/12 - Drilled out CIBP @ 3270' & Cleaned out to 3440'.

08/20/12 - TIH w 2 7/8" x 3 1/2" MHMA w/purge valve, 2 7/8" SN, 11 jts 2 7/8" J-55 tbg, 2 7/8" x 5 1/2" TAC & 94 jts 2 7/8" J-55 tbg, 1 1/4" x 8' GAC, 2 7/8" x 1 1/2" x 20' RHBC pump, 130- 3/4" KD rods & 1- 7/8" rod. Spaced out pump with 7/8" x 2' sub & 1 1/4" x 26' PR w/1 1/2" x 14' liner.

09/08/12 - Well tested 17 BO / 182 BW / 18 MCF

**COPY**  
to ocd

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

Pam Stevens

Title Regulatory Analyst

Signature

*Pam Stevens*

Date 10/04/2012

ACCEPTED FOR RECORD

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

Approved by

Title

Office

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

NOV 11 2012  
BUREAU OF LAND MANAGEMENT  
GALLUP FIELD 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 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 on page 2)

District I  
1625 N. French Dr., Hobbs, NM 88240  
Phone: (575) 393-6161 Fax: (575) 393-0720  
District II  
811 S. First St., Artesia, NM 88210  
Phone: (575) 748-1283 Fax: (575) 748-9720  
District III  
1000 Rio Brazos Road, Aztec, NM 87410  
Phone: (505) 334-6178 Fax: (505) 334-6170  
District IV  
1220 S. St. Francis Dr., Santa Fe, NM 87505  
Phone: (505) 476-3460 Fax: (505) 476-3462

State of New Mexico

Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION

1220 South St. Francis Dr.

Santa Fe, NM 87505

Form C-102

Revised August 1, 2011

Submit one copy to appropriate

District Office

☐ AMENDED REPORT

HOBBS OCT 2012  
NOV 14 2012

RECEIVED

WELL LOCATION AND ACREAGE DEDICATION PLAT

<sup>1</sup> API Number 30-025-34218	<sup>2</sup> Pool Code 52250	<sup>3</sup> Pool Name Rhodes; Yates-Seven Rivers
<sup>4</sup> Property Code 303135	<sup>5</sup> Property Name Mary E. Wills 'A' Federal	<sup>6</sup> Well Number 18
<sup>7</sup> OGRID No. 160825	<sup>8</sup> Operator Name BC Operating, Inc.	<sup>9</sup> Elevation 2977' GL

<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
A	34	26S	37E		330	North	990	East	Lea

<sup>11</sup> Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County

<sup>12</sup> Dedicated Acres	<sup>13</sup> Joint or Infill	<sup>14</sup> Consolidation Code	<sup>15</sup> Order No.

No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.

330'

990'

<sup>17</sup> OPERATOR CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

*Pam Stevens*  
Signature

07/30/2012

Date

Pam Stevens  
Printed Name

pstevens@bcoperating.com  
E-mail Address

<sup>18</sup> SURVEYOR CERTIFICATION

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.

October 9, 1997

Date of Survey

Signature and Seal of Professional Surveyor:

*J. N. Stevens*

Certificate Number 5109

SM000053

Mary E Wills A Federal #18  
330' FNL & 990' FEL, Sec 34, T26S, R37E  
Lea County, New Mexico  
API: 30-025-34218

7/24/2012

**Add Pay Procedure**

**Well Data**

Tubing: 107 jts 2-7/8", 6.5#, J-55 with TAC  
Prod Casing: 5-1/2", 15.5#, J-55 @ 3490' with 350 sx TOC @ 1520'  
TD: 3495' PBTD: 3442' GL: 2977' 13' KB

**Yates Perforations**

3292' - 3300' & 3318' - 3342'

**Procedure**

1. MIRU pulling unit and TOH with all production equipment. Scanalog 2-7/8" tubing out of hole, replacing green and red band pipe with new. Visually inspect rods and couplings.
2. TIH with bit and bailer 2-7/8" production tubing. Clean well out to PBTD. TOH with bit and bailer. Set frac tanks.
3. TIH with packer on 2-7/8" production tubing. Set packer at 3200'. Rig up pumping services company. Monitor backside pressure during acid job. Acidize Rhodes Yates perforations 3292' - 3342' with 3000 gallons (80/20 15% HCl and toluene) in 3 stages with rock salt in 10# brine as diverter. Avg rate 4 BPM. Overflush bottom perforation with 100 bbl freshwater. TOH with packer.
4. Rig up wireline. Correlate to SLB open hole log dated 12/8/1997. Set CIBP at 3270' with 2 sx cmt on top. Perforate the Yates formation as follows.

3-1/8" Slick guns w/ 60 degree phasing & Titan 23 gram Charges (EH-0.43, Pen-37)

		Yates	
Top Perf	Bottom Perf	SPF	# of Holes
3,228	3,232	2	8
3,216	3,221	2	10
3,176	3,186	2	20
3,150	3,170	2	40
		Net H	38
#Prop/Net H	2,821	Total Holes	78
Total Prop	110,000	Gross H	82

Rig down wireline.

5. TIH with 5-1/2" full bore stimulation packer on 3-1/2", N-80 workstring. Set packer at +/-3100'. Pressure test backside to 300 psig and note any leaks.
6. MIRU pumping services. Fracture stimulate Yates formation (3150'-3232', 78 holes) as designed. Rig down pumping services. Leave well shut in overnight to allow resin to cure. TOH with treating packer and lay down 3-1/2" workstring.

7. TIH with 4-1/2" bit and collars on 2-7/8" production tubing. Drill out CIBP @ 3270' and clean well out to 3442' with foam air unit. TOH with bit and collars.
8. TIH with 3-1/2" Slotted Mud Anchor (full joint), 2-7/8" SN, 2-7/8" production tubing, and TAC. Set SN @ 3350'. Set tubing anchor @ +/- 3000'.
9. Run 20' gas anchor, 1-3/4" pump with cup type hold down, and Grade KD sucker rods with T grade couplings.  
133 3/4" Rods  
1 7/8" Rods  
3350'  
C320-256-120 with 30 hp motor running counter-clockwise (with well to right of Samson post) 7.5 SPM in long hole (120" stroke). 100% Capacity = 300 BFPD. Install Lufkin SAM POC and re-balance pumping unit.
10. Return well to production. RD pulling unit. Gather well tests.

mary\_e\_wills a fed #18

LEASE & WELL NO. Mary E Wills A Federal #18  
 FIELD NAME Rhodes Yates Seven Rivers  
 LOCATION 330' FNL & 990' FEL, Sec 34, T26S, R37E

Also Known As Wills Fed #18  
 COUNTY & STATE Lea Co., New Mexico  
 API NO. 30-025-34218

K.B. ELEV. \_\_\_\_\_  
 D.F. ELEV. \_\_\_\_\_  
 GROUND LEVEL 2977'

SURFACE CASING  
 SIZE 8-5/8" WEIGHT 24# DEPTH 653'  
 GRADE K-55 SX. CMT. 300 sx TOC @ Surf.  
INTERMEDIATE CASING  
 SIZE \_\_\_\_\_ WEIGHT \_\_\_\_\_ DEPTH \_\_\_\_\_  
 GRADE \_\_\_\_\_ SX. CMT. \_\_\_\_\_ TOC @ \_\_\_\_\_

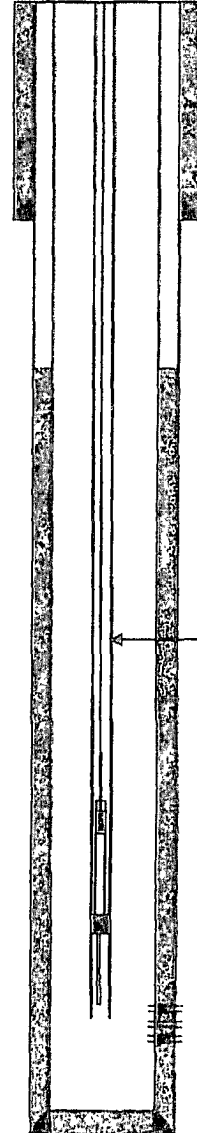
WELL HISTORY

COMPLETION DATE: 1/13/1998

01/98 Drill & complete  
 Perf 3292-3300' w/ 2 spf, 3318-3342' w/ 2 spf, 3337-3342'  
 w/ 1 spf, acidize w/ 1500 gals 15% HCl, Frac w/ 24,500 gal  
 25# Borate Frac w/ 64,000 16/30 Sand  
 IP 24 hr 28 BO + 15 MCF + 130 BW

PRODUCTION CASING  
 SIZE 5-1/2" WEIGHT 15.5# DEPTH 3490'  
 GRADE J-55 SX. CMT. 350 sx TOC @ 1520' CBL  
 PBTD@ 3442'  
 TD@ 3495'

CURRENT COMPLETION



Formation Tops MD

Rustler 1190'  
 Salado 1410'  
 Tansill 2844'  
 Yates 3037'  
 Seven Rivers 3337'

TOC @ 1520' by CBL

TUBING DETAIL  
 2-7/8", 6.5# Tubing @ 3410'

Open Yates Perfs:  
 3292-3300' w/ 2 spf  
 3318-3342' w/ 2 spf  
 3337-3342' w/ 1 spf

7/24/2012

HJW