

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

OCD Artesia

FORM APPROVED  
OMB NO. 1004-0135  
Expires: July 31, 2010

**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.  
NMLC060548

6. If Indian, Allottee or Tribe Name

**SUBMIT IN TRIPLICATE - Other instructions on reverse side.**

7. If Unit or CA/Agreement, Name and/or No.  
NMMN101360X

8. Well Name and No.  
NORTH SQUARE LAKE UNIT 187

1. Type of Well  
 Oil Well  Gas Well  Other

2. Name of Operator Contact: JOEL HALE  
CBS OPERATING CORPORATION E-Mail: JHALE@BOAZENERGY.COM

9. API Well No.  
30-015-33102-00-S1

3a. Address  
MIDLAND, TX 79702

3b. Phone No. (include area code)  
Ph: 432-253-7074

10. Field and Pool, or Exploratory  
SQUARE LAKE

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)  
Sec 33 T16S R31E SENW 1330FNL 2490FWL

11. County or Parish, and State  
EDDY COUNTY, NM

12. CHECK 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"/> 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 checked="" 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 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 shall 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 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.)

Boaz Energy recompleted this well in the Grayburg and San Andres formations.

Work commenced on 5/18. A dailey workover report and well bore diagram is attached.

Recompletions consisted of perforating, acid treating and fracture treating.

Lovington:

Perforated 3582-3604 with 88 total perforations at 0.42" dia.  
Treated with 2887 gallons 15% HCl + 1148bbl Slickwater with 2285# 100mesh + 22484# 20/40 White Sand.

Grayburg:

*Depth of CIBP?*

*NMOCD: operator of record eff 9-11-12 is Boaz Energy / L. DeLoe 6/26/13*



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

Electronic Submission #210771 verified by the BLM Well Information System  
For CBS OPERATING CORPORATION, sent to the Carlsbad  
Committed to AFMSS for processing by KURT SIMMONS on 06/20/2013 (13KMS4309SE)

Name (Printed/Typed) JOEL HALE

Title ENGINEER

Signature (Electronic Submission)

Date 06/14/2013

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By **ACCEPTED**

JAMES A AMOS  
Title SUPERVISOR EPS

Date 06/23/2013

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 Carlsbad

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.

**Additional data for EC transaction #210771 that would not fit on the form**

**32. Additional remarks, continued**

Perforated 3351-3354, 59-70, 81-94, 3411-3418, 28-66 with 288 total perforations at 0.42" dia.  
Treated with 3067 gallons 15% HCl + 3361bbl Slickwater with 3077# 100mesh + 85301# 20/40 White Sand.

Production After work: 25bbl oil / 8bbl water

Lease :  
Well Number:  
Well Location:

**NORTH SQUARE LAKE UNIT**

**187**  
**1330' FNL & 2490' FWL UL F**

Date: 5/8/2013

County: **EDDY**  
API #: 30-015-33102  
Range: 31E

Sec: 33  
Twn: 16S

Surface Casing Size: 8-5/8" Weight: 32# J55 Date Set: 12/11/2003  
Depth set : 685' Sx of Cement : 425 TOC : Surface

Production Casing Size : 5-1/2" Weight: 17# J55 Date Set: 12/19/2003  
Depth set : 3905' Sx of Cement : 1125 TOC : Est 50'

Perforations : Above Grayburg: 3310-3330 (shot 04)(20 holes)  
Grayburg: 3331-34, 59-70, 81-94, 3411-18, 28-66 (shot '13)(288 holes)  
Vacuum Dolo: 3500-3530 (shot 04)(30x holes)  
Lovington: 3582-3604 (shot 2 times)(104x holes)

Total # of Holes : 72 Hole Size: 0.4" dia

Initial Stimulation: A/2000 g 7-1/2% NEFE + 44 ball sealers

Date: 2/25/2004

Date: 7/29/2004 A/500 gal , F/15,000 g paraffin chem stage + 3000 g gel pad  
had to abort frac job

Date: 7/30/2004 A/2500 gal, F/62,400 g Silver stim gel + 90,000# sand

Initial Potential : BOPD: 2 MCFPD: 0

Date: 8/18/2004 BWPD: 241 Method: Pumping

Subsequent Stim: Lovington Frac -1092gal 15% HCL + 1164bbl slick water

Date: 5/6/13 --- + 2285# 100mesh + 22484# 20/40

Grayburg Frac - 3067gal 15% HCL + 3422bbl slick water

--- + 3077 100mesh + 85301# 20/40

Elevations: TD 3910' PBD 3864'  
GL 3972' KB 7'

Well shut in 2004-2006 pending evaluation. Tied well into battery July, 2006

5/2/13 - reperf Lovington and perf Grayburg

**Well Name & # : North Square Lake Unit 187**

Job Date	Job Description	Size Tubing	Size Rods	Size Pump	# of Tbg Joints In	# of Rods In	Seating Nipple Depth
11/6/2008	Rods parted on 23rd rod. Fished rods. Replaced parted rod, RIH with rods, good pump action.						
5/19/2008	Rods parted, body break on 17th rod. Fished rods. Replaced rod, RIH with rods, good pump, good pump action.		3/4"			17	
1/7/2008	Rods parted. POH with 22 rods. Fished rods. Replaced rod, RIH with rods and well pumped up.						
5/4/2007	Rods parted, body break on 15th rod. Fished rods. Replaced rod, RIH with rods, hung well on, good pump action.		3/4"			15	
1/10/2007	Rods parted on 3rd rod. Fished rods. POH with pump. Replaced parted rod and one more. RIH with rods and pump, good pump action.		3/4"			153	
11/27/2006	Rods parted on 10th rod. Fished rods. Replaced rod, good pump action.		3/4"			3	
9/15/2006	Rods parted under polish rod on two foot sub. Fished rods and replaced two foot sub. Hung well on, good pump action.		3/4"				
5/4/2006	POH with rods. Tagged with tubing 20' off bottom. POH with tubing, found two holes. Tested tubing to 1500 psi, tested good. POH with tubing, had iron and scale on top of standing valve. RIH with tubing and retrieving tool, circulated 160 bbls around, had 20' of fill. POH with RBP. RIH with tubing, rods and new pump, good pump action.	2-7/8"	3/4"	1-1/2"x16'	120	153	
8/18/2004	POH with rods and pump, tagged CIBP, no fill. POH with tubing. RIH with tubing and	2-7/8"	3/4"	1-1/2"x16'	109	140	3548'

*depth?*

packer, set packer at 3287'. Pumped 30  
bbls. 2% , well did not pressure up. Dropped  
standing valve, pressured up to 1000 psi.  
POH with packer. RIH with sand line, tagged  
fluid. Had 500' of fluid in hole. RIH with tubing.  
Could not get on RBP. Kill truck pumped 30  
bbls. water down tubing. POH with RBP. RIH  
with tubing, rods and pump.

NSLU 187  
API 30-015-33102  
Eddy Co, NM  
Lease #: NMLC060548

4/30/13 – RU on 200. POOH Rods and pump.

5/1/13 – TOO H tubing. RIH bit and scraper to 3680. TOO H bit and scraper.

5/2/13 – MIRU Wireline. Spot 500gal 15% HCL down casing. Perforate Lovington 3582-3604 @ 4SPF w/ 0.42". Pump 20bbl f/w to displace acid.

5/3/13 – Install +Frac Valve + BOP. RIH w/ RBP and packer. Set RBP @ 3250. Could not get test under packer. TOO H tubing. Close Frac Valve. Test casing against valve to 4800psi.

5/4/13 – Instal Seat nipple, RIH tubing testing. Replace bad joint. Set RBP @ 3250. TOO H tubing. Close Frac Valve. Test casing against valve to 4800psi.

5/5/13 – RIH, unlatch RBP, TOO H.

5/6/13 – Frac Lovington w/ 1148bbl slickwater w/ 25000# sand @ 30bpm. Frac Grayburg w/ 3361bbl Slickwater w/ 88375# sand @ 60bpm.

5/7/13 – Leave shut-in

5/8/13 – start bleeding down pressure to frac tank

5/9/13 – RIH, unlatch to plug, TOO H. Bleed pressure off bottom zone.

5/11/13 – Run tubing, rods, pump and place on production to test.