OCD-ARTESIA

Form 3160-5
(August 2007)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB No. 1004-0137
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.

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

5. Lease Serial No.
NM033775

6. If Indian, Allottee or Tribe Name

7. If Unit of CA/Agreement, Name and/or No.
NMNM70993X

1. Type of Well
☑ Oil Well ☐ Gas Well ☐ Other

8. Well Name and No.
NBQU #48

2. Name of Operator
SandRidge E&P, LLC

9. API Well No.
30-015-36900

3a. Address
123 Robert S. Kerr Ave.
OKC OK 73102-6406

3b. Phone No. *(include area code)*
405-476-6085

10. Field and Pool or Exploratory Area
Benson Queen Grayburg, North

4. Location of Well *(Footage, Sec., T.,R.,M., or Survey Description)*
1075 FSL / 1300 FEL
Sec 28, T18S, R30E

11. Country or Parish, State
Eddy County, NM

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
	☐ Alter Casing	☐ Fracture Treat	☐ Reclamation	☐ Well Integrity
☐ Subsequent Report	☐ Casing Repair	☐ New Construction	☐ Recomplete	☑ Other Amended csg design
	☐ Change Plans	☐ Plug and Abandon	☐ Temporarily Abandon	
☐ Final Abandonment Notice	☐ 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 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.)

Attached please find the new casing design for our APD extension request dated 9/16/2010.

Accepted for record
NMOCD

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

Title Regulatory Manager

Signature Linda Guthrie

Date 03/02/2011

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by
/s/ Don Peterson

Title FIELD MANAGER

Date APR 25 2011

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 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)

DRILLING PROGRAM NBQU #48

1. **Geological Name of Surface Formation**
   a. Permian

2. **Estimated Tops of Geological Markers**
   a. Top of Anhydrite 330'
   b. Top of Yates 1672' Possibly yield hydrocarbons @ 1650'
   c. Top of Queens 2786' Possibly yield hydrocarbons @ 2800'
   d. Top of Penrose 3003' Possibly yield hydrocarbons @ 3200'
   e. Top of Grayburg 3225'
   f. Total Depth 3500'

No other formations are expected to yield oil, gas or fresh water in measurable volumes. The surface fresh water sands will be protected by setting 11 3/4" casing at 400' and circulating cement back to surface. Potash will be protected by setting 8 5/8" casing at 2500' and circulating cement to surface. Fresh water sands will be protected by setting 5 1/2" casing at 3500' and circulating cement to surface.

3. **Casing Program:**

Hole Size	Depth	OD Csg	Weight	Collar	Grade	New/Used
14 3/4	400'	11 3/4	47#	ST&C	J-55	New
10 5/8	2500'	8 5/8	32#	LT&C	J-55	New
7 7/8	3500'	5 1/2	15.5#	LT&C	J-55	New

Safety factors: Burst 1.1 Collapse 1.125 Tension 1.8

4. **Cement Progam: (Note yields; and dv tool depths if multiple stages)**
   a. 11 3/4" Surface — Circulate cement to surface with 240 sks Class C cement + 2% CaCl2 (wt. 14.8 lbs/gal., Yield 1.34 cuft/sk)
   b. 8 5/8" Intermediate — Circulate cement to surface with lead cement from 2000' to surface with 360 sks class C + 5% Salt + 0.25 lb/sk LCM (wt. 12.4 lbs/gal, Yield 2.12 cuft/sk)
      Tail Cement: 170 sks Class C + 2% CaCl2 (wt 14.8 lbs/gal, Yield 1.34 cuft/sk) from 2500' to 2000'
   c. 5 1/2" Production — Circulate cement to surface with lead cement from 3300' to surface with 350 sks 50:50 POZ·class C + 2% Bentonite + 0.5% F.L. + 0.25 lb/sk LCM + 0.4% anti foam (wt. 11.9 lbs/gal, Yield 2.06 cuft/sk)
      Tail Cement: 50 sks Class C +2% CaCl2 (wt 14.8 lbs/gal, Yield 1.34 cuft/sk) from 3500' to 3300'

The above cement volumes could be revised pending the caliper measurement from open hole logs. The top of cement is designed to reach surface.