

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENTFORM 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.***SUBMIT IN TRIPLICATE - Other instructions on reverse side.**

1. Type of Well <input type="checkbox"/> Oil Well <input checked="" type="checkbox"/> Gas Well <input type="checkbox"/> Other		8. Well Name and No. LANGENDORF 1
2. Name of Operator NOBLE ENERGY INC		9. API Well No. 30-045-13143-00-S1
3a. Address 5802 US HWY 64 FARMINGTON, NM 87401		10. Field and Pool, or Exploratory BASIN DAKOTA
3b. Phone No. (include area code) Ph: 303-228-4437 Fx: 303-228-4286		11. County or Parish, and State SAN JUAN COUNTY, NM
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) Sec 34 T31N R13W SENE 1750FNL 0990FEL 36.858414 N Lat, 108.185593 W Lon		

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

TYPE OF SUBMISSION	TYPE OF ACTION			
<input checked="" 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 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 type="checkbox"/> Recomplete	<input type="checkbox"/> Other
	<input type="checkbox"/> Change Plans	<input checked="" 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 recompleat 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.)

Noble Energy Inc respectfully submits a notice of intent to plug and abandon the Langendorf #1.
The PA procedure and a wellbore diagram are attached.

RCVD SEP 6 '12

OIL CONS. DIV.

DIST. 3

Notify NMOCD 24 hrs
prior to beginning
operations

If Run CBL and submit to agencies for review prior to cementing first plug

14. I hereby certify that the foregoing is true and correct. Electronic Submission #148251 verified by the BLM Well Information System For NOBLE ENERGY INC, sent to the Farmington Committed to AFMSS for processing by STEVE MASON on 09/04/2012 (12SXM0310SE)	
Name (Printed/Typed) CHERYL Y JOHNSON	Title REGULATORY ANALYST III
Signature (Electronic Submission)	Date 08/30/2012

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By STEPHEN MASON	Title PETROLEUM ENGINEER	Date 09/04/2012
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 Farmington

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.

**** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED ****

NMOCD FY

PLUG AND ABANDONMENT PROCEDURE

August 24, 2012

Langendorf #1

Basin Dakota

1750' FNL and 990' FEL, Section 34, T31N, R13W
San Juan County, New Mexico / API 30-045-13143

Lat: N _____ / Lat: W _____

Note: All cement volumes use 100% excess outside pipe and 50' excess inside. The stabilizing wellbore fluid will be 8.3 ppg, sufficient to balance all exposed formation pressures. All cement will be Class B, mixed at 15.6 ppg with a 1.18 cf/sx yield.

1. This project requires a NMOCD C-144 CLEZ Closed-Loop System Permit for the use of an A-Plus steel tank to handle waste fluids circulated from the well and cement wash up.
2. Install and test location rig anchors. Comply with all NMOCD, BLM, and Operator safety regulations. MOL and RU daylight pulling unit. Conduct safety meeting for all personnel on location. Record casing, tubing and bradenhead pressures. NU relief line and blow down well. Kill well with water as necessary and at least pump tubing capacity of water down the tubing. ND wellhead and NU BOP. Function test BOP.
3. Rods: Yes _____, No X, Unknown _____.
Tubing: Yes X, No _____, Unknown _____, Size 1-1/2", Length 6327'.
Packer: Yes _____, No X, Unknown _____, Type _____.
If this well has rods or a packer, then modify the work sequence in step #2 as appropriate.
Round trip 5.5" gauge ring or casing scraper to 6319'.
CBL will be required on this well.
4. **Plug #1 (Dakota perforations and top, 6319' – 6219')**: RIH and set 5.5" cement retainer at 6319'. Pressure test tubing to 1000 PSI. Circulate well clean. Attempt to pressure test casing to 800 PSI. If casing does not test then spot or tag subsequent plugs as appropriate. Mix 17sxs Class B cement inside casing to cover the Dakota perforations and top. TOH.
5. **Plug #2 (Gallup top, ⁶⁵⁵⁰5620' – ⁵⁴⁵⁰5420')**: Perforate 3 squeeze holes at ⁵⁵⁵⁰5520'. Establish rate into squeeze holes. Set 5.5" cement retainer at ⁵⁴⁷⁰5470'. Mix 60 sxs Class B cement squeeze 43 sxs outside casing and leave 17 xs inside casing to cover the Gallup top. PUH.
6. **Plug #3 (Mancos top, 4585' – 4485')**: Spot 17 sxs Class B and spot a balanced plug inside casing to cover the Mancos top. TOH.
7. **Plug #4 (Mesaverde top, ³⁴⁵⁹3403' – ³³⁵⁹3303')**: Perforate 3 squeeze holes at 3403'. Establish rate into squeeze holes. Set 5.5" cement retainer at 3353'. Mix 60 sxs Class B cement squeeze 43 sxs outside casing and leave 17 sxs inside casing to cover the Mesaverde top. TOH.
8. **Plug #5 (Pictured Cliffs top, 1866' - 1766')**: Perforate 3 squeeze holes at 1866'. Establish rate into squeeze holes. Set 5.5" cement retainer at 1816'. Mix 60 sxs Class B cement squeeze 43 sxs outside casing and leave 17 sxs inside casing to cover the Pictured Cliffs top. TOH.

Langendorf #1

Proposed P&A

Basin Dakota

1750' FNL, 990' FEL, Section 34, T-31-N, R-13-W
San Juan County, NM, API #30-045-13143

Today's Date: 8/24/12

Spud: 10/18/60

Completed: 11/17/60

Elevation: 5718' GI
5730' KB

Kirtland @ surface

12.25" hole

Fruitland @ 1432' *est

Pictured Cliffs @ 1816' ₂

Mesaverde @ 3353'
3409

Mancos @ 4535'

Gallup @ 5470' *est
5500

Dakota @ 6359'

8.75" hole

TD 6557'
PBTD 6502'

9-5/8" 32# H-40 Casing set @ 195'
Cement with 130 sxs, circulated

Perforate @ 245'

Plug #7: 245' - 0'
Class B cement, 100 sxs

$$\begin{aligned} 245/7 \cdot 279(118) &= 28333 \\ 50/37539(118) &= 11453 \\ 195/3611(118) &= 46505 \\ \hline &85041 \end{aligned}$$

Set CR @ 1432'

Plug #6: 1482' - 1382'
Class B cement, 60 sxs:
17 inside and 43 outside

Perforate @ 1482'

Set CR @ 1816'

Perforate @ 1866'

Plug #5: 1866' - 1766'
Class B cement, 60 sxs:
17 inside and 43 outside

Set CR @ 3353'

Perforate @ 3403'

3459 3359
Plug #4: 3403' - 3303'
Class B cement, 60 sxs:
17 inside and 43 outside

Perforate @ 4585', squeeze
with 350 sxs cement. Drill
out. P/T casing to 1000#.
Estimate TOC @ 4480'

Plug #3: 4585' - 4485'
Class B cement, 17 sxs

$$200/3.9889(118) = 4350$$

Set CR @ 5470'

Perforate @ 5520'

TOC @ 5590' (calc, 75%)

5550 5450
Plug #2: 5520' - 5420'
Class B cement, 60 sxs:
17 inside and 43 outside

Plug #1: 6319' - 6219'
Class B cement, 17 sxs

Set CR @ 6319'

Dakota Perforations:
6369' - 6467'

$$17(2279)(118) = 146'$$

5.5", 14#/15.5#, K-55 Casing set @ 6554'
Cement with 275 sxs

UNITED STATES DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
FARMINGTON DISTRICT OFFICE
6251 COLLEGE BLVD.
FARMINGTON, NEW MEXICO 87402

Attachment to notice of
Intention to Abandon:

Re: Permanent Abandonment
Well: 1 Langendorf

CONDITIONS OF APPROVAL

1. Plugging operations authorized are subject to the attached "General Requirements for Permanent Abandonment of Wells on Federal and Indian Lease."
2. Farmington Office is to be notified at least 24 hours before the plugging operations commence (505) 564-7750.
3. The following modifications to your plugging program are to be made:
 - a) Place the Gallup plug from 5550' – 5450' inside and outside the 5 ½" casing.
 - b) Place the Mesaverde plug from 3459' – 3359' inside and outside the 5 ½" casing.

You are also required to place cement excesses per 4.2 and 4.4 of the attached General Requirements.

Office Hours: 7:45 a.m. to 4:30 p.m.