

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

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.  
NMSF078463

6. If Indian, Allottee or Tribe Name

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

8. Well Name and No.  
LANGENDORF 1

9. API Well No.  
30-045-13143-00-S1

10. Field and Pool, or Exploratory  
BASIN DAKOTA

11. County or Parish, and State  
SAN JUAN COUNTY, NM

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

1. Type of Well  
 Oil Well  Gas Well  Other

2. Name of Operator  
NOBLE ENERGY INC  
Contact: JEAN M MUSE-REYNOLDS  
E-Mail: jmuse@nobleenergyinc.com

3a. Address  
5802 US HWY 64  
FARMINGTON, NM 87401

3b. Phone No. (include area code)  
Ph: 303-228-4316  
Fx: 303-228-4286

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 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 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 recomplate 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 Sundry Notice providing the information for the plugging and abandonment of the Langendorf #1 well.

- Plug #1 pump 20 sxs (23.6 cf) Class B cement inside casing from 6318? to 6142? to cover the Dakota top.
- Plug #2 pump 64 sxs (75.52 cf) Class B cement leaving 43 sxs outside, 6 sxs below the CR and 15 sxs above the CR from 5550? to 5369? to cover the Gallup top.
- Plug #3 pump 24 sxs (28.32 cf) Class B cement with 2% CaCl inside casing from 4605? to 4394? to cover the Mancos top.
- Plug #4 pump 64 sxs (75.52 cf) Class B cement inside casing from 3461? to 3277?, leaving 43 sxs outside the casing, 6 sxs below and 15 sxs above the CR to cover the Mesaverde top.
- Plug #5 with 29 sxs (27.82 cf) Class B cement inside casing from 1918? to 1662? to cover the

RCVD MAY 7 '13  
OIL CONS. DIV.  
DIST. 3

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

**Electronic Submission #206015 verified by the BLM Well Information System  
For NOBLE ENERGY INC, sent to the Farmington  
Committed to AFMSS for processing by STEVE MASON on 05/03/2013 (12SXM0310SE)**

Name (Printed/Typed) JEAN M MUSE-REYNOLDS	Title REGULATORY COMPLIANCE
Signature (Electronic Submission)	Date 05/02/2013

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

Approved By **ACCEPTED** \_\_\_\_\_ Title **STEPHEN MASON** Date **05/03/2012**  
PETROLEUM ENGINEER

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 \*\***

**Additional data for EC transaction #206015 that would not fit on the form**

**32. Additional remarks, continued**

Pictured Cliffs top.

Plug #6 with 64 sxs (75.52 cf) Class B cement inside casing from 1482? to 1306?, leaving 43 sxs outside the casing, 7 sxs below and 14 sxs above the CR to cover the Fruitland top.

Plug #7 with 97 sxs (114.46 cf) Class B cement inside casing from 245? to surface with good cement to the pit. Mixed and pumped 93 sxs and the SI bradenhead and squeezed 4 sxs away at 250 PSI to cover the casing shoe.

Plug #8 with 40 sxs (1.18 cf) Class B cement found cement in the 5.5? down 120? and in the 9-5/8? x 5.5? down 2? install P&A marker.

The daily operations report is attached for this operation.

**A-PLUS WELL SERVICE, INC.**

P.O. BOX 1979  
 Farmington, New Mexico 87499  
 505-325-2627 \*fax: 505-325-1211

Noble Energy, Inc.  
**Langendorf 1**

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1750' FNL and 990' FEL, Section 34, T-31-N, R-13-W  
 San Juan County, NM  
 Lease Number: NMSF-078463  
 API #30-045-13143-00-S1

**Plug and Abandonment Report**  
 Notified NMOCD and BLM on 9/27/12

**Plug and Abandonment Summary:**

- Plug #1** pump 20 sxs (23.6 cf) Class B cement inside casing from 6318' to 6142' to cover the Dakota top.
- Plug #2** pump 64 sxs (75.52 cf) Class B cement leaving 43 sxs outside, 6 sxs below the CR and 15 sxs above the CR from 5550' to 5369' to cover the Gallup top.
- Plug #3** pump 24 sxs (28.32 cf) Class B cement with 2% CaCl inside casing from 4605' to 4394' to cover the Mancos top.
- Plug #4** pump 64 sxs (75.52 cf) Class B cement inside casing from 3461' to 3277', leaving 43 sxs outside the casing, 6 sxs below and 15 sxs above the CR to cover the Mesaverde top.
- Plug #5** with 29 sxs (27.82 cf) Class B cement inside casing from 1918' to 1662' to cover the Pictured Cliffs top.
- Plug #6** with 64 sxs (75.52 cf) Class B cement inside casing from 1482' to 1306', leaving 43 sxs outside the casing, 7 sxs below and 14 sxs above the CR to cover the Fruitland top.
- Plug #7** with 97 sxs (114.46 cf) Class B cement inside casing from 245' to surface with good cement to the pit. Mixed and pumped 93 sxs and the SI bradenhead and squeezed 4 sxs away at 250 PSI to cover the casing shoe.
- Plug #8** with 40 sxs (1.18 cf) Class B cement found cement in the 5.5" down 120' and in the 9-5/8" x 5.5" down 2' install P&A marker.

**Plugging Work Details:**

- 10/1/12 Rode rig and equipment to location. Check well pressures: tubing 0 PSI, casing 0 PSI and bradenhead 60 PSI. RU relief lines and blow well down. ND wellhead. NU BOP and function test. Unseat the tubing hanger at 40,000#. Tubing hanger was level with the striping head. SI well. SDFD.
- 10/2/12 Check well pressures: tubing 0 PSI, casing 0 PSI and bradenhead 55 PSI. Start working tubing up to 60,000#. Work the tubing above the stripping head and removed the tubing hanger. Work the tubing up and down. Found stuck pipe from 6200' to 6500'. Wait on orders. B. Powell, NMOCD and R. Espinoza, BLM approved procedure changes. Pressure up to 1450 PSI and bled off slow. RIH with 1.74" gauge ring to 3948'. Tag up repeat several times with no gain. POH. RIH with 1-11/16" weight bar tag up at 3948'. Tag up several times with no gain. Pull 85,000#. Tied rig back single line and started working the tubing. Started to move pulling up to 80,000#. After several times of working the tubing it reached 8'. Last pull parted at 80,000#. Tie back double fast and TOH. LD 58 joints of 2-3/8" tubing and tally to 1894'. SI well. SDFD.

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### Plugging Work Details (continued):

- 10/3/12 Check well pressures: tubing 0 PSI, casing 0 PSI and bradenhead 55 PSI. Blow down the well. Wait on work string. Re-spot pits and floats. PU tallying and rabbiting 61 joints of 2-7/8" L80, tag the fish top at 1892'. LD 1 joint, PU 8' and 6' sub, and latch on to the fish. RU Wireline Specialties. PU 1-7/16" gauge ring and RIH to 3813' with 30,000# pulled on the fish. PUH to 1866'. Pull to 40,000# on the fish. RIH with 1-7/16" gauge ring to 3813'. POH. PU 1-1/2" chemical cutter and cut tubing at 3795'. POH. TOH standing back 29 stands of 2-7/8" tubing. LD 1 joint and the over shot. LD .65' of the fish and 58 joints of 2-3/8" tubing, a 15' piece. EOT at 3796', Fish top at 3796'. SI well. SDFD.
- 10/4/12 Check well pressures: tubing 0 PSI, casing 2 PSI and bradenhead 30 PSI. Tally and PU 4.5" shoe, 5 joints of 4.5" wash pipe, canfield, 3-3/4" jars, 6- 3-1/2" DC and TIH. Continue tallying and rabbiting 55 joints of 2-7/8" tubing. Tag fish top at 379' and work down to 3941'. TOH LD 1 joint. Stand back 56 stands 2-7/8", 3 stands of DC and 2 stands of wash pipe, LD the shoe. PU 4.5" outside cutter. TIH with 5 joints of 4.5 wash pipe canfield, 6-3 -1/2" DC and 56 stands of 2-7/8" tubing. Tag fish top at 3809'. RU power swivel. SI well. SDFD.
- 10/5/12 Check well pressures: tubing 0 PSI, casing 0 PSI and bradenhead 30 PSI. Work down to 3943' and cut the fish at 3942'. Hang back power swivel. TOH. PU mill shoe. Tag collar on the fish at 3975' and worked down to 4103'. TOH. PU outside cutter. TIH and tag collar on fish at 4038', work down to 4078'. PU the swivel. Cut at 4075'. Hang back the swivel. TOH with 2 cut pieces and 3 joints of fish. Fish top at 4076'. SI well. SDFD.
- 10/8/12 Check well pressures: casing 2 PSI and bradenhead 30 PSI. PU full open over shot and TIH. PU rabbiting and tallying 12 joints and 8' sub, latch on to the fish at 4075'. RU Wireline Specialties. RIH with free point and tag up at 4095'. Pulled the string to 50,000# unable to get past 4095'. POH. PU weight bar and jars. RIH to 4095'. Work down to 4110', unable to go any deeper. POH. Latch on to the fish at 4075'. Start jarring on the fish. Work up to 60,000# of pull. Tie back to single line and work up to 75,000#. Made 22" total. Pulled string to 35,000# over. SI well. SDFD.
- 10/9/12 Check well pressures: tubing 0 PSI, casing 0 PSI and bradenhead 25 PSI. PU to 45,000# over the string weight to release the slips. Start jarring of the fish, no gain. Release from the fish. PU the swivel and worked the fish. Finally released from the fish. TOH. SI well. SDFD.
- 10/10/12 Check well pressures: casing 10 PSI and bradenhead 25 PSI. TIH tag fish top at 4073' and work down to 4330'. TOH. Cut joint at 4301'. TOH with 228' of fish. (The first cut joint had mostly fluid with cedar fiber and pieces of coal, the remaining fish had soft solids look like silt and clay). Continue TOH and LD BHA. SI well. SDFD.

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### Plugging Work Details (continued):

- 10/11/12 Check well pressures: tubing 0 PSI, casing 0 PSI and bradenhead 25 PSI. TIH and tag fish at 4300' and work down to 4357'. TOH. PU the outside cutter and TIH. PU power swivel and make cut at 4528'. TOH. Hang back power swivel. Continue TOH. Recovered 226' of the fish. Continue TOH. Fish top at 4528'. LD the cutter. PU the shoe and TIH. PU full open over shot and TIH with 64 stands EOT at 4516'. SI well. SDFD.
- 10/12/12 Check well pressures: tubing 0 PSI, casing 0 PSI and bradenhead 25 PSI. TIH and tag fish at 4528', over shot at 4560'. RU Basic Coil tubing unit and pumps. RIH with 1-1/4" coil tubing with a wash nozzle and clean out from 4528' to 6400'. Nitrogen and mist at 1/4 bpm. POH and RD coil tubing equipment. RU Wireline Specialties. RIH with free point to 5000' 100% free 6360' 74%, 6330' 84%, 6100' 86%, 5514' 98% and 5805' 90%. POH and LD free point. PU Chemical cutter. RIH to 6330', load the hole with 16 bbls and cut the tubing at 6330'. TOH to 4368'. Estimated end of fish 6138'. SI well. SDFD.
- 10/13/12 Check well pressures: tubing 25 PSI, casing 0 PSI and bradenhead 25 PSI. TOH. Replace the winch line. TOH fish top at 6335'. TIH and x-over subs and all handling tools. SI well. SDFD.
- 10/15/12 Check well pressures: no tubing, casing 5 PSI and bradenhead 25 PSI. RIH with 5.5" gauge ring to 4717'. Tagged 10 – 15 more times to 4718'. PU 5.5" string mill and TIH. PU rabbiting and tallying 63 joints (tagged fish top at 6333') with 8' and 6' sub. PU 5.5" CIBP and RIH set at 6318'. POH. PU the logging tool. Ran log from 6318' to 2000'. Attempt to pressure test casing up to 800 PSI, bled to 550 PSI in a minute. SI well. SDFD.
- 10/16/12 Check well pressures: no tubing, casing 0 PSI and bradenhead 25 PSI. Wireline ran CBL from 6318' to 30'. Found cement top at 6208' and from 4585' to 4230'. PU plugging sub and TIH to 6318'. Pressure test to 800 PSI and bled to 250 in 15 min. Spot plug #1 with TOC at 6142'. SI well. SDFD.
- 10/17/12 Check well pressures: tubing 0 PSI, casing 0 PSI and bradenhead 25 PSI. TIH and tag cement at 6152'. TOH. Attempt to pressure test casing. Pressure up to 800 PSI and bled down to 550 PSI in 1 min. Perforated 3 HSC holes at 5550'. Establish rate into perms of 2 bpm at 600 PSI. PU 5.5" DHS CR set at 5501'. Pressure test tubing to 1200 PSI, OK. Attempt to pressure test casing to 800 PSI, bled to 750 PSI in 2 min. Pressure up to 1500 PSI, reverse out pump 10 bbls, no PSI. Pressure up to 1500 PSI. Reverse out with 42 bbls. Attempt to establish rate into perms. Establish rate of 1 bpm at 1000 PSI and repeat several times. Spot plug #2 with TOC at 5369'. TOH. SI well. SDFD.

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### Plugging Work Details (continued):

10/18/12 Check well pressures: no tubing, casing 0 PSI and bradenhead 15 PSI. TIH and tag cement at 5332'. TOH to 4605'. Attempt to pressure test casing up to 800 PSI and bled down to 550 PSI in a minute. Spot plug #3 with TOC at 4394'. WOC. TIH tag cement at 4425'. Attempt pressure test on the casing, pressure up to 800 PSI then bled to 500 PSI in a minute. TOH to 3365'. Perforated 3 HSC holes at 3461'. Attempt to establish rate into perms. Establish rate of 2 bpm at 800 PSI. TIH and leave the 5.5" CR at 3409'. SI well. SDFD.

10/19/12 Check well pressures: tubing 0 PSI, casing 0 PSI and bradenhead 10 PSI. Set DHS CR at 4309'. Pressure test casing to 800 PSI, OK. Establish rate of 2 bpm at 700 PSI and pump 3 bbls. Spot plug #4 with TOC at 3277'. Perforate 3 HSC holes at 1866'. POH. Attempt to establish rate into the perms, pressure up to 1250 PSI bled to 1000 PSI in 2 min. R. Espinoza, BLM and B. Powell, NMOCD approved procedure change. TIH to 1918'. Spot plug #5 with TOC at 1662'. WOC. SI well. SDFD.

10/22/12 Check well pressures: tubing 0 PSI, casing 0 PSI and bradenhead 15 PSI. TIH and tag cement at 1690'. TOH to 1398'. Continue TOH. Perforated 3 HSC holes at 1482'. Establish rate into perms of 2 bpm at 800 PSI. PU 5.5" DHS CR and set at 1429'. Establish rate of 2 bpm at 800 PSI. Spot plug #6 with TOC at 1306'. Perforated 3 HSC holes at 245'. Circulate the bradenhead clean. Do 30 minute monitoring (BLM requirement). Well started flowing small water stream but no gas. R. Espinoza, BLM approved pumping cement. Spot plug #7 with TOC at surface. Dig out wellhead. Chip out cement. SI well. SDFD.

10/23/12 Open up well; no pressures. ND BOP. Write Hot Work Permit. Cut off wellhead. Cement in the 5.5" down 120' and in the 9-5/8" x 5.5" down 2'. Spot plug #8 and install P&A marker. RD & MOL.

Ray Espinoza, BLM representative, was on location.