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Form 3160-5
(August 2007)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

DEC 26 2013

Farmington Field Office
Bureau of Land Management

FORM APPROVED
OMB No. 1004-0137
Expires: July 31, 2010

5. Lease Serial No. **SF-078194**

6. If Indian, Allottee or Tribe Name

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.*

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

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

8. Well Name and No. **Ludwick LS #19**

2. Name of Operator **ConocoPhillips Company**

9. API Well No. **30-045-08831**

3a. Address **PO Box 4289, Farmington, NM 87499**

3b. Phone No. (include area code) **(505) 326-9700**

10. Field and Pool or Exploratory Area **BASIN DAKOTA**

4. Location of Well *(Footage, Sec., T.,R.,M., or Survey Description)*
Surface UNIT B (NWNE), 890' FNL & 1800' FEL, Sec. 5, T29N, R10W

11. Country or Parish, State **San Juan , 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
	☐ Alter Casing	☐ Fracture Treat	☐ Reclamation	☐ Well Integrity
☐ Subsequent Report	☐ Casing Repair	☐ New Construction	☐ Recomplete	☐ Other
	☐ 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.)

ConocoPhillips Company requests permission to P&A the subject well per the attached procedure, current and proposed wellbore schematics. The Pre-Disturbance Site Visit was held on 12/18/13 w/Bob Switzer, BLM Representative. The Re-Vegetation Plan is attached. A Closed Loop System will be utilized for this project.

Notify NMOCD 24 hrs prior to beginning operations

OIL CONS. DIV DIST. 3

JAN 09 2014

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

Denise Journey Title **Regulatory Technician**

Signature Denise Journey Date **12/23/2013**

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by
Original Signed: Stephen Mason

Title | 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.

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.

(Instruction on page 2)

NMOCD

ConocoPhillips
LUDWICK LS 19
Expense - P&A
Lat 36° 45' 32.393" N Long 107° 54' 14.364" W

PROCEDURE

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.

1. Hold pre-job safety meeting. Comply with all NMOCD, BLM, and COPC safety and environmental regulations. Test rig anchors prior to moving in rig.

2. MIRU work over rig. Check casing, tubing, and bradenhead pressures and record them in Wellview. If there is pressure on the BH, contact Wells Engineer.

3. Remove existing piping on casing valve. RU blow lines from casing valves and begin blowing down casing pressure. Pressure test tubing to 1000 psi before unseating the pump, release pressure.

4. Kill well down tubing with at least tubing capacity of water.

5. ND wellhead and NU BOP. Pressure and function test BOP to 200-300 psi low and 1000 psi above SICP up to 2000 psi high as per COP Well Control Manual. PU and remove tubing hanger.

6. TOOH with tubing (per pertinent data sheet).

Tubing:	Yes	**Size:**	2-3/8"	**Length:**	6,852'
Rods:	No	**Size:**	-	**Length:**	-
Packer:	No	**Size:**	-	**Depth:**	-

Round trip with a 3-7/8" bit and watermelon mill to the top perf @ 6,692' or as deep as possible above the perfs. Do not go past top perf.

All cement volumes use 100% excess outside pipe and 50' excess inside pipe. The stabilizing wellbore fluid will be 8.3 ppg, sufficient to balance all exposed formation pressures. All cement will be ClassB/ASTM Type II mixed at 15.6 ppg with a 1.18 cf/sk yield.

7. **Plug 1 (Perfs, Dakota, and Graneros Tops : 6,642'-6,542', 12 sacks Class B cement)**
TIH and set 4-1/2" CR on tubing at 6,642'. Pressure test tubing to 1000 psi. Sting out of CR and load and circulate casing clean, pressure test casing to 800 psi. If casing does not test, tag plugs as necessary. TOOH with tubing. RIH with wireline and run CBL from 6,642' to surface under 500 psi pressure. Send CBL to Wells Engineer, Superintendent and Regulatoy. Based on TOC, adjust plugs as needed to ensure cement coverage inside and outside of pipe for isolation. TIH with tubing open ended or with cement plugging sub. Mix 12 sx Class B cement and spot a balanced plug inside casing to isolate the perforations, Dakota, and Graneros formation tops. PUH.

8. **Plug 2 (Gallup Top: 5,890'-5,790',45 Sacks Class B Cement)**
Two stage plug as TOC is at 5,845'
Stage 1: Mix 8 sxs Class B cement. Set balanced plug at 5,890' using 8 sx inside casing. PUH to 5840'. Reverse circulate hole clean. POOH.
Stage 2: RIH and perforate 3 HSC holes @ 5836'. Establish circulation through squeeze holes. Set CR @ 5,815'. Mix 37 sxs Class B cement. Sqz 37 sx Class B cement outside casing and leave 8 sx inside casing to isolate the Gallup top. POOH.

5150 5850

9. **Plug 3 (Mancos Top: ~~5,052'-4,952'~~ 5150-5052', 65 Sacks Class B Cement)**
RIH and perforate 3 HSC holes at ~~5,052~~ 5150'. Establish injection through squeeze holes. Set CR @ ~~5,002~~ 5100'. Mix 65 sxs Class B cement. Sqz 53 sx Class B cement outside casing and leave 12 sx inside casing to isolate the Mancos top. POOH.

3923 3829

10. **Plug 4 (Mesaverde Top: ~~4,018'-3,918'~~, 65 Sacks Class B Cement)**
RIH and perforate 3 HSC holes at ~~4,018'~~ 3923'. Establish injection through squeeze holes. Set CR @ ~~3,968'~~. Mix 65 sxs Class B cement. Sqz 53 sx Class B cement outside casing and leave 12 sx inside casing to isolate the Mesaverde top. PUH.
Check plug from 3367 - 3267 inside & outside 4½" casing.

11. **Plug 5 (Pictured Cliffs: 2,373'-2,273', 12 Sacks Class B Cement)**
Mix 12 sxs Class B cement. Set balanced plug at 2,373' using 12 sx inside casing to isolate the Pictured Cliffs top. POOH.

2085 1985

12. **Plug 6 (Fruitland Top: ~~1,858'-1,758'~~, ~~65~~ Sacks Class B Cement)**
~~RIH and perforate 3 HSC holes at 1,858'. Establish injection through squeeze holes. Set CR @ 1,808'. Mix 65 sxs Class B cement. Sqz 53 sx Class B cement outside casing and leave 12 sx inside casing to isolate the Fruitland top. POOH.~~

13. **Plug 7 (Kirtland and Ojo Alamo Tops: 1,279'-1,021', 159 Sacks Class B Cement)**
RIH and perforate 3 HSC holes at 1,279'. Establish injection through squeeze holes. Set CR @ 1,229'. Mix 159 sxs Class B cement. Sqz 135 sx Class B cement outside casing and leave 24 sx inside casing to isolate the Kirtland and Ojo Alamo tops. POOH.

14. **Plug 8 (Surface Casing Shoe and Nacimiento top: 353' – 0', 145 sacks Class B cement)**
RU wireline and TIH with a 4 shots per foot, 90 degree phased perforating gun w/ big hole charges (if available) to 353' and perforate squeeze holes. TOOH and RD wireline. RU pump, close blind rams and establish circulation down casing and out Bradenhead with water. Circulate until returns are clean. TIH with 4-1/2" cement retainer and set retainer at 305'. Cement inside / outside surface plug with 114 sx cement until good cement returns to surface out bradenhead valve, shut bradenhead valve and squeeze to max 200 psi. Sting out of retainer and reverse circulate cement out of tubing. TOOH and LD stinger. TIH with open ended tubing to 305'. Pump inside plug with 31 sx cement. LD Tbg. WOC.

15. Nipple down BOP and cut off casing below the casing flange. Install P&A marker with cement to comply with regulations. Rig down, move off location, cut off anchors, and restore location.

CURRENT SCHEMATIC

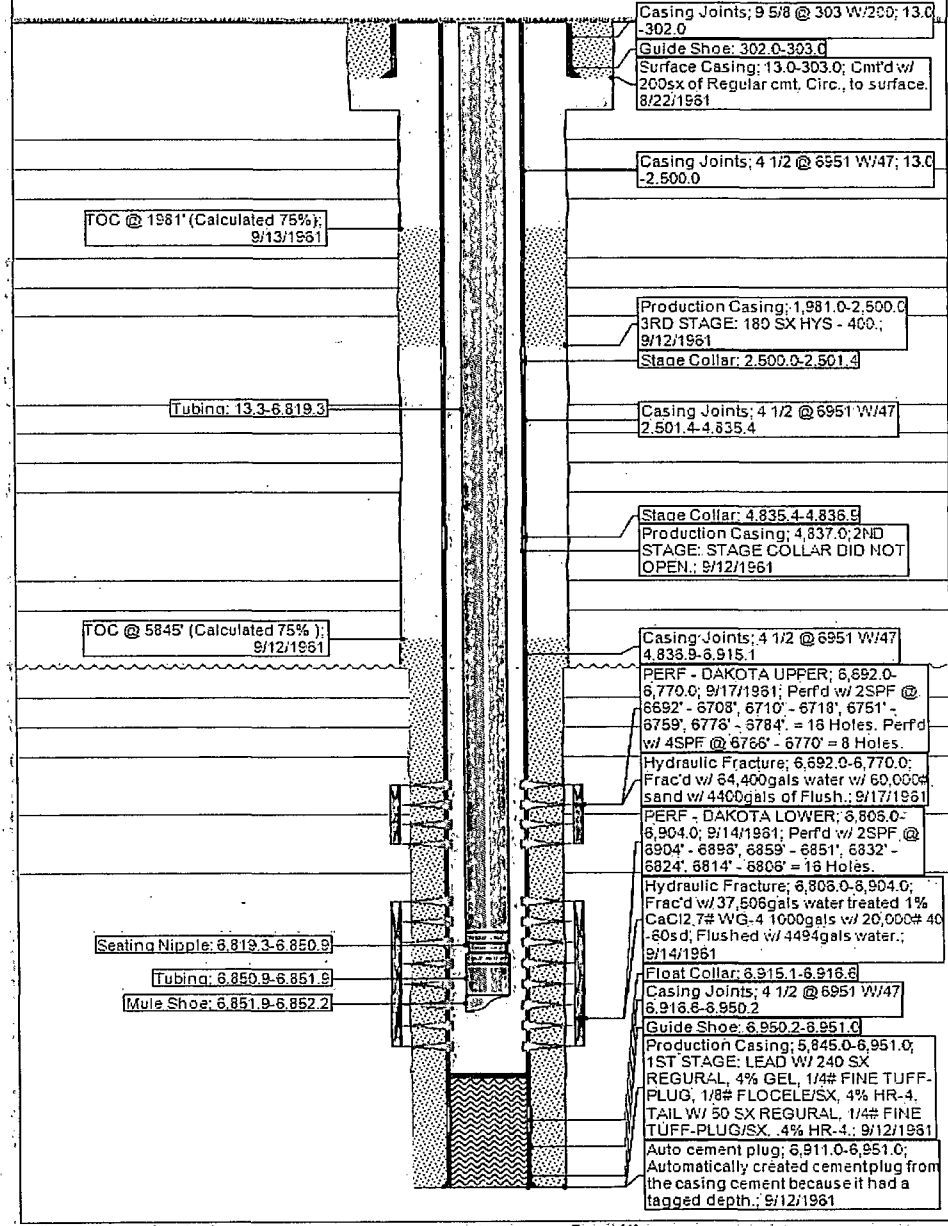
ConocoPhillips

LUDWICK LS #19

District	Field Name	API / UWI	County	State/Province

Original Spud Date	Surface Legal Location	E/W Dist (ft)	E/W Ref	N/S Dist (ft)	N/S Ref

Vertical - Original Hole; 11/21/2013 8:06:23 AM



MD (ftKB)	Formation Tops
13.1	NACIMIENTO
301.3	
303.1	
315.9	
1,070.9	OJO ALAMO
1,229.0	KIRTLAND
1,803.1	FRUITLAND
1,931.0	
2,059.1	FRUITLAND CO...
2,323.2	PICTURED CLIF...
2,421.9	LEWIS
2,500.0	
2,501.3	
3,319.9	CHACRA
3,967.8	CLIFF HOUSE
4,079.9	MENEFEE
4,509.1	POINT LOOKOUT
4,835.3	
4,836.9	
5,002.0	MANCOS
5,329.9	GALLUP
5,845.1	
5,904.9	
6,579.1	GREENHORN
6,633.9	GRANEROS
6,668.0	TWO WELLS (D...
6,691.9	
6,749.0	PAGUATE
6,770.0	
6,803.1	CUBERO
6,805.1	
6,819.2	
6,850.7	
6,851.7	
6,852.4	
6,903.9	
6,911.1	
6,915.0	
6,915.7	
6,950.1	
6,951.1	

Report Printed: 11/21/2013

Schematic - Proposed

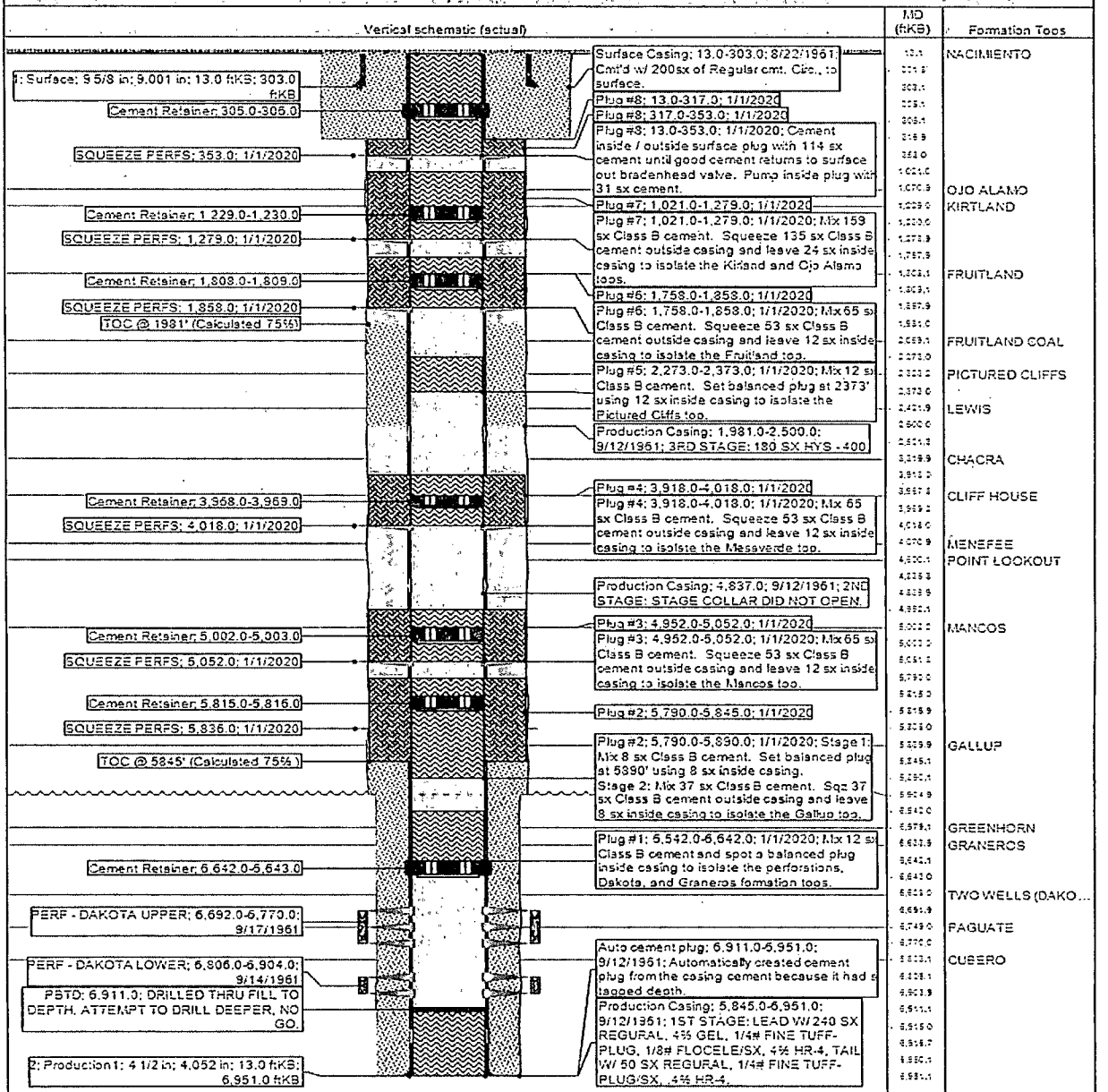
ConocoPhillips

LUDWICK LS #19

District	Field Name	API / UWI	County	State/Province
NORTH	DK	3004508831	SAN JUAN	NEW MEXICO

Original Spud Date	Surf Loc	East/West Distance (ft)	East/West Reference	N/S Dist (ft)	North/South Reference
8/21/1961	005-029N-010W-B	1,800.00	FEL	890.00	FNL

Vertical - Original Hole, 1/1/2020 7:45:00 AM



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 Ludwick LS

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 Mancos plug from 5150'- 5050'.

b) Place the Mesavered plug from 3929'- 3829'.

c) Place the Chacra plug from 3369'- 3269' inside and outside the 4 ½" casing.

d) Place the Fruitland plug from 2085'- 1985'.

e) High H2S has been encountered in the area, therefore you are required to have H2S personal and equipment on location during plugging operations.

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.