APR 2 4 2013

| 1 | | | 1. | | | | | |
|---|---|---|--|--|---|---|--|---|
| 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 | | |
| I | 201010 01 | 1311112 | | genegion | Field | 5. Lease Serial No. | F-078385A | |
| | SUNDRY NOTICES not use this form for ndoned well. Use For | proposals t | ORTS ON W | ELLS re-enter ar | l hýsatt 7 | 6. If Indian, Allottee or Tribe | Name | |
| SUBMIT IN TRIPLICATE - Other instructions on page 2. | | | | | | 7. If Unit of CA/Agreement, Name and/or No. | | |
| 1. Type of Well Oil Well | | | | 8. Well Name and No. Howell L 4R | | | | |
| 2. Name of Operator Burlington Resources Oil & Gas Co | | | | p | | 9. API Well No. 30-045-27576 | | |
| 3a. Address PO Box 4289, Fa | 3b. Phone No. (include area code) (505) 326-9700 | | | 10. Field and Pool or Exploratory Area Blanco PC / Blanco MV | | | | |
| | o, Sec., T.,R.,M., or Survey Desc Init G (SWNE), 1850' I | | NL, Sec. 34 | T30N, R8V | N | 11. Country or Parish, State San Juan | , New Mexico | |
| . 12. | CHECK THE APPROPRI | ATE BOX(ES) | TO INDICAT | E NATURE (| OF NO | TICE, REPORT OR OTH | HER DATA | |
| T _i YPE OF SUBMISSION | | | | | OF AC | TION | | |
| X Notice of Intent Subsequent Report | Acidize Alter Casing Casing Repa | ir | Deepen Fracture Tre New Constr X Plug and A | ruction | R R | roduction (Start/Resume) eclamation ecomplete emporarily Abandon | Water Shut-Off Well Integrity Other | |
| Final Abandonment l | ' === | | Plug Back | AUGO!! | == | Vater Disposal | | _ |
| If the proposal is to deep Attach the bond under v following completion of Testing has been comple determined that the site | | horizontally, give d or provide the E operation results es must be filed o | subsurface locati Bond No. on file v in a multiple com only after all requi | ons and measure with BLM/BIA. pletion or recorrements, included the comments of the comments o | ed and tre Required inpletion ling recla | ue vertical depths of all pertin d subsequent reports must be f in a new interval, a Form 3160 mation, have been completed | ent markers and zones. filed within 30 days 0-4 must be filed once | |
| . N o | m mengakan kembanan a | construe the source food | | | RCVD APR 25 '13 | 3 | | |
| ; ; | otify NMOCD 24 prior to beginning operations | | ATTACH ONS OF | | ML | | OIL CONS. DIV. DIST. 3 | |
| t | | | | | | | | |
| 14. I hereby certify that the f | oregoing is true and correct. Na | nme (Printed/Type | ed) | | | | | |
| Dollie L. Busse | Tit | Title Staff Regulatory Technician | | | | | | |
| Signature Milie Busse | | | | e 2/ | 113 | /13 | | |
| . 1 | THIS | SPACE FO | R FEDERAL | OR STAT | E OFF | ICE USE | | |

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. 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.

Title

Office

FOU



Approved by

ConocoPhillips HOWELL L 4R Expense - P&A

Lat 36° 46' 17.616" N

Long 107° 39' 34.344" 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.
- 3. When an existing primary valve (i.e. casing valve) is to be used, the existing piping should be removed and replaced with the appropriate piping for the intended operation.
- 4. RU blow lines from casing valves and begin blowing down casing pressure. Kill well with water, as necessary, and at least pump tubing capacity of water down tubing.
- 5. ND wellhead and NU BOPE. Pressure and function test BOP. PU and remove tubing hanger.
- 6. TOOH with tubing (per pertinent data sheet). Round trip 4-1/2" watermelon mill to 3712' or as deep as possible and tound trip 7" watermelon mill to 3228'.

Rods: No Size: Length:
Tubing: Yes Size: 2-3/8" Length: 4338
Packer: No Size: Depth:

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 ASTM Type II mixed at 15.6 ppg with a 1.18 cf/sk yield.

7. Plug 1 (Mesaverde Perforations and Formation Top, Intermediate Shoe and Liner Top, 3178-3662', 51 Sacks Class B RIH and set CR for 4 1/2" casing at 3662'. Load tubing with water and circulate clean. Pressure test tubing to 560 psi. Mix 51 sx Class B cement and spot inside the casing above CR to isolate the Mesaverde Perforations and Formation top, Intermediate Shoe and Liner Top. POOH

8. Plug 2 (Pictured Cliffs Perforations and Formation Top. 2790-2890', 29 Sacks Class B Cement)

RIH and set CR for 7" casing at 2890'. Pressure test casing to 800psi. If casing does not test, then spot or tag subsequent plugs as appropriate. Mix 29 sx Class B cement and spot inside the casing above CR to isolate the Pictured Cliffs Perforations and Formation Top. PUH

2676 2576

9. Plug 3 (Fruitland, 2372-2472', 29 Sacks Class B Cement)

Mix 29 sx Class B cement and spot a balanced plug inside the casing to isolate the Fruitland Formation Top. PUH

2042-1739

10. Plug 4 (Ojo Alamo and Kirtland, 1794-2026', 65 Sacks Class B Cement)

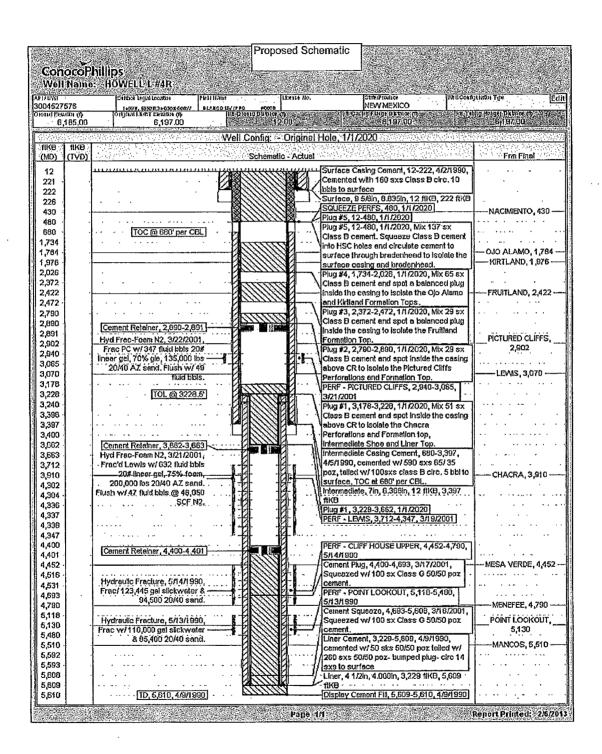
Mix & sx Class B cement and spot a balanced plug inside the casing to isolate the Ojo Alamo and Kirtland Formation Tops. POOH

11 Plug 5 (Surface Shoe and Nacimiento Top, 12-480', 137 Sacks Class B Cement)

RIH and perforate 3 HSC holes @ 480'. Establish circulation through squeeze holes. Mix 137 sx Class B cement. Squeeze Class B cement into HSC holes and circulate cement to surface through bradenhead to isolate the surface casing and bradenhead. Shut in well and WOC. Tag cement top and top out cement as necessary.

12. 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 Well Name: HOWELL L#4R intere Legal Locatio Edit 3004527576 Grand Electron (6) 6,185,00 NEW MEXICO testil, 1897E3+houx-cook high al ko/RT Ekseton etc 6,197.00 Well Config: - Original Hole, 2/6/2013 8:03:49 AM IND I TIKE (MD) (TVD) Surface Casing Coment, 12-222, 4/2/1890. 12 Cemented with 160 sxs Class B circ. 10 221 bbls to surface Surface, 9 5/8in, 8.835in, 12 ftl(8, 222 222 1tKB 228 430 NACIMIENTO, 430 580 TOC @ 680' per CBL 1,784 OJO ALAMO, 1,784 -KIRTLAND, 1,976 1,076 Tubing, 2 3/8in, 4.70lbs/ft, N-80, 12 flKB, 4,302 flKB 2,422 FRUITLAND, 2,422 PICTURED CLIFFS. 2,902 Hyd-Frae-Foam N2, 3/22/2004 2,902 Free PC w/ 347 fluid bbls 20# 2.940 PERF - PICTURED CLIFFS, 2,940-3,065, linear gel, 70% gle, 135,000 lbs 3/21/2001 3,065 20/40 AZ send. Flush w/ 49 3,070 -fluid-bbis - LEWIS, 3,070 · TOL @ 3228.5 Intermediate Casing Cement, 680-3,397, 3,220 Hyd Frec-Foem N2, 3/21/2001. 4/5/1990, cemerked w/ 590 sxs 65/35 3,240 poz, tailed w/100sxs class B circ. 5 bbl to Frac'd Lewis W/ 632 fluid bbis 3,396 20# linear gel, 75% team, 200,000 lbs 20/40 AZ sand. Intermediate, 7in, 6.366in, 12 fiKB, 3,397 3,397 fike) Flush w/ 47 fluid bbls @ 48,050 3,400 Tubing Pup Joint, 2 3/8in, 4.70lbs/ft, N-80, 4,302 ftKB, 3,712 3,910 CHACRA, 3,910 PERF - LEWS, 3,712-4,347, 3/19/2001 4,304 ftKB 4,302 Tubing, 2 3/8in, 4.70lbs/ft, N-80, 4,304 ftKB, 4,336 ftKB Nipple, 2 3/8in, 4,336 ftKB, 4,304 4,336 4,337 ftKB 4,337 Expendable Check, 2 3/8in 4,338 4,337 ftKB, 4,338 ftKB 4,347 4,400 Cement Retainer, 4,400-4,401 4,401 4,452 MESA VERDE, 4,452 PERF - CLIFF HOUSE UPPER, 4,452-4,780, 4,51B . . 5/14/1990 Hydraulic Fracture, 5/14/1990, 4,531 Cement Plug, 4,400-4,693; 3/17/2001; Fraci 123,445 gal slickwater & 4,693 Squeezed w/100 sx Class G 50/50 poz 94,500 20/40 sand. 4,790 cement. MENEFEE, 4,790 -PERF - POINT LOOKOUT, 5,118-5,480, 5,118 Hydraulic Fracture, 5/13/1930, Frac w/110,000 gal slickwater 5/13/1990 Cement Squeeze, 4,693-5,608, 3/16/2001, POINT LOOKOUT, 5,130 5,130 5,480 Squeazed w/100 sx Class G 50/50 poz & 65,400 20/40 sand. 5,510 MANCOS, 5,510 -Liner Cement, 3,229-5,609, 4/9/1990, 5,592 cemented w/ 50 sks 50/50 poz talled w/ 5,593 260 sxs 50/50 poz- bumped plug-circ 14 axa to surface 5,608 Liner, 4 1/2in, 4.000in, 3,229 flKB, 5,609 5,809 "HKH" 5,610 Display Cement Fill, 5,609-5,610, 4/9/1990 TD, 5,810, 4,9/1990 Pege 1/1 Report Printed: 25/2013



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: 4R Howell L

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 Fruitland plug from 2676' 2576'.
- b) Place the Kirtland/Ojo Alamo plug from 2042' 1739'.

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.

GENERAL REQUIREMENTS FOR PERMANENT ABANDONMENT OF WELLS ON FEDERAL AND INDIAN LEASES FARMINGTON FIELD OFFICE

- 1.0 The approved plugging plans may contain variances from the following minimum general requirements.
 - 1.1 Modification of the approved plugging procedure is allowed only with the prior approval of the Authorized Officer, Farmington Field Office.
 - 1.2 Requirements may be added to address specific well conditions.
- 2.0 Materials used must be accurately measured. (densimeter/scales)
- 3.0 A tank or lined pit must be used for containment of any fluids from the wellbore during plugging operations and all pits are to be fenced with woven wire. These pits will be fenced on three sides and once the rig leaves location, the fourth side will be fenced.
 - 3.1 Pits are not to be used for disposal of any hydrocarbons. If hydrocarbons are present in the pit, the fluids must be removed prior to filling in.
- 4.0 All cement plugs are to be placed through a work string. Cement may be bull-headed down the casing with prior approval. Cement caps on top of bridge plugs or cement retainers may be placed by dump bailer.
 - 4.1 The cement shall be as specified in the approved plugging plan.
 - 4.2 All cement plugs placed inside casing shall have sufficient volume to fill a minimum of 100' of the casing, or annular void(s) between casings, plus an excess volume sufficient to provide for 50 linear feet of fill above the plug.
 - 4.3 Surface plugs may be no less than 50' in length.
 - 4.4 All cement plugs placed to fill annular void(s) between casing and the formation shall be of sufficient volume to fill a minimum of 100' of the annular space plus 100% excess, calculated using the bit size, or 100' of annular capacity, determined from a caliper log, plus an excess volume sufficient to provide for 50 linear feet of fill above the plug.
 - 4.5 All cement plugs placed to fill an open hole shall be of sufficient volume to fill a minimum of 100' of hole, as calculated from a caliper log, plus an excess volume sufficient to provide for 50 linear feet of fill above the plug. In the absence of a caliper log, an excess of 100% shall be required.
 - 4.6 A cement bond log or other accepted cement evaluation tool is required to be run if one had not been previously run or cement circulated to surface during the original casing cementing job or subsequent cementing jobs.

- 5.0 All cement plugs spotted across, or above, any exposed zone(s), when; the wellbore is not full of fluid or the fluid level will not remain static, and in the case of lost circulation or partial returns during cement placement, shall be tested by tagging with the work string.
 - 5.1 The top of any cement plug verified by tagging must be at or above the depth specified in the approved plan, without regard to any excess.
 - 5.2 Testing will not be required for any cement plug that is mechanically contained by use of a bridge plug and/or cement retainer, if casing integrity has been established.
 - 5.3 Any cement plug which is the only isolating medium, for a fresh water interval or a zone containing a prospectively valuable deposit of minerals, shall be tested by tagging.
- 6.0 Before setting any cement plugs the hole needs to be rolled. All wells are to be controlled by means of a fluid that is to be of a weight and consistency necessary to stabilize the wellbore. This fluid shall be left in place as filler between all plugs.
 - 6.1 Drilling mud may be used as the wellbore fluid in open hole plugging operations.
 - 6.2 The wellbore fluid used in cased holes shall be of sufficient weight to balance known pore pressures in all exposed formations.
- 7.0 A blowout preventer and related equipment (BOPE) shall be installed and tested prior to working in a wellbore with any exposed zone(s); (1) that are over pressured, (2) where the pressures are unknown, or (3) known to contain H₂S.
- 8.0 Within 30 days after plugging work is completed, file a Sundry Notice, Subsequent Report of Abandonment (Form 3160-5), five copies, with the Field Manager, Bureau of Land Management, 1235 La Plata Highway, Suite A, Farmington, NM 87401. The report should show the manner in which the plugging work was carried out, the extent, by depth(s), of cement plugs placed, and the size and location, by depth(s), of casing left in the well. Show date well was plugged.
- 9.0 All permanently abandoned wells are to be marked with a permanent monument as specified in 43 CFR 3162.6(d). Unless otherwise approved.
- 10.0 If this well is located in a Specially Designated Area (SDA), compliance with the appropriate seasonal closure requirements will be necessary.

All of the above are minimum requirements. Failure to comply with the above conditions of approval may result in an assessment for noncompliance and/or a Shut-in Order being issued pursuant to 43 CFR 3163.1. You are further advised that any instructions, orders or decisions issued by the Bureau of Land Management are subject to administrative review pursuant to 43 CFR 3165.3 and appeal pursuant to 43 CFR 3165.4 and 43 CFR 4.700.