| Form 3160-5<br>(August 2007)   |  | NITED STATI   |  | 心至  | 1 Same  | RM APPROVED<br>B No. 1004-0137   |
|--|--|---|--|---|---|--|
| (August 2007)  |  | F LAND MAN  | JAGEMENT   |   | Expi  | res: July 31, 2010   |
|  |  |   | FEB 2'   | 7 2013  | 5. Lease Serial No.   |  |
|  | SUNDRY NOTICE  |   | ORTS ON WELLS  | -: -: -: - (  | 6 If Indian Allottee or Tril  | SF-078096  |
| Do no  | t use this form fo   | r proposals t   | o drill or to re-enter<br>PD) for such propos  | ananac  | emen  |  |
|  | SUBMIT IN TRIPLIC  |   |  |   | 7. If Unit of CA/Agreement  | t, Name and/or No.   |
| . Type of Well   |  |   |  |   |   |  |
| Oil Well   | X Gas Well   | Other   |  |   | 8. Well Name and No.  | Mudge B 100  |
| 2. Name of Operator  |  |   |  |   | 9. API Well No.   |  |
| Ba. Address  | ConocoPh   | nillips Compa   | ny<br>3b. Phone No. (include area of   | code)   | 30<br>10. Field and Pool or Explo   | 0-045-34846  |
| PO Box 4289, Farm  | ington, NM 87499   |   | (505) 326-970  |   | •   | in Fruitland Coal  |
| Location of Well (Footage, Sec   |  |   |  |   | 11. Country or Parish, State  |  |
| Surface Unit N   | l (SESW), 1068' F  | SL & 2376' F\   | NL, Sec. 21, T31N, R   | 11W   | San Juan  | , New Mexico   |
| 12. CHE  | CK THE APPROPR   | IATE BOX(ES)  | TO INDICATE NATURE   | OF NOT  | ICE, REPORT OR O  | THER DATA  |
| TYPE OF SUBMISSIC  | DN   | <u></u>   | ТҮРЕ   | OF ACT  | ΓΙΟΝ  |  |
| X Notice of Intent   | Acidize  | [   | Deepen   | Pr  | oduction (Start/Resume)   | Water Shut-Off   |
| <u> </u>   | Alter Casin  |   | Fracture Treat   |   | eclamation  | Well Integrity   |
| Subsequent Report  | Casing Rep   |   | New Construction   |   | ecomplete   | Other  |
| V•   | Change Pla   |   |  |   | emporarily Abandon<br>ater Disposal   |  |
| Final Abandonment Notic  | e Convert to   | Intection   | I Plug Back  |   |   |  |
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# ConocoPhillips MUDGE B 100 Expense - P&A

Lat 36° 52' 48.601" N

Long 107° 59' 47.17" 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).

 Tubing:
 Yes
 Size:
 2-3/8"
 Length:
 2,435'

8. PU watermelon mill and 2-3/8" tubing. Round trip watermellon mill to 2,316' or as deep as possible. TOOH and LD watermelon mill.

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.

#### 9. Plug 1 (Pictured Cliffs, 2452-2517', 9 Sacks Class B Cement)

Load 4-1/2" casing and pressure test tubing to 1000 psi. Mix 9 sx Class B cement and spot balance plug inside casing to isolate the Pictured Cliffs formation top. POOH

### 10. Plug 2 (Fruitland Coal Perforations and Formation Top, 1783-2316', 45 Sacks Class B Cement)

RIH with CR for 4-1/2" 10.5# J-55 casing and set @ 2,316'. Presure test casing to 800 psi. If casing does not test, spot and tag subsequent plugs as necessary. Run CBL from 2316' to surface. Contact Production Engineer with results. Mix 45 sx of Class B cement and spot plug inside casing to isolate the Fruitland Coal Perforations and Fruitland Coal Formation Top. PUH.

## 965 865

#### 11. Plug 3 (Kirtland and Ojo Alamo Formation Tops, 711-943', 22 Sacks Class B Cement)

Mix 22 sx Class B cement and spot balance plug inside casing to isolate the Kirland and Ojo Alamo Formation Tops. PUH.

## 12. Plug 4 (Surface Casing Shoe and Surface Plug, 0-186', 18 Sacks Class B Cement)

Attempt to pressure test the bradenhead annulus to 300 psi; note the volume to load. If the BH annulus holds pressure, then establish circulation out casing valve with water. Mix 18 sx cement and spot a balanced plug inside casing from 186' to surface, circulate good cement out casing valve. TOH and LD tubing. Shut well in and WOC. If the BH annulus does not test, perforate at the appropriate depth and attempt to circulate cement to surface filling the vasing from 186' and the annulus from the squeeze holes to surface. Shut in well and WOC.

13. 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.

|                        |                | hillips<br>? Mudge:B#100   | · Current/Sc                     | hematic                               |   |                 |                         |
|------------------------|----------------|--|----------------------------------|---------------------------------------|---|-----------------|-------------------------|
| API/UWI                | Name           | Strice Legal Location (Field Name  | Licease No.                      | State /P                              | routice   | Well Configura  | <u>פוזד וסא</u><br>Edit |
| 3004534<br>Ground Eleu |                | 021-031N-011W-N BASIN FRUITL   | AND COAL                         | NEW                                   |   | VERTICAL        | Harger Distance (f)     |
| 5                      | 876.00         | C. L. STREAD AND AND TARGET AND THE WAR NAMED AND ADDRESS OF A DECK OF A DREAD ADDRESS OF A DREAD ADDRESS OF A D | 11d Distance (0<br>3, 2, 11,00); | NO                                    |   | And in Artistic |                         |
|                        | ttKB (         | Well Config VER  | TICAL - Original I               | lólé, 2/26/2013 9                     | ) 29:25 AM 🐗  | ANDERT R        | GOOTING THE FAIL        |
|                        |                |  | Schematic - Actual               |                                       | and the second  |                 | Frm Final               |
| 11                     |                |  |                                  |                                       |   |                 |                         |
| 12                     |                |  |                                  |                                       |   | <b>.</b> .      |                         |
| 13                     |                |  |                                  |                                       |   |                 |                         |
| 135                    | 135            |  |                                  | SURFACE CSG C                         | MT, 11-136, 2/3/20  | 009,            |                         |
| 136                    | 136            | Tubing, 2 3/8in, 4.70lbs/ft, J-55,<br><u>11 ftKB, 2,400 ftKB</u><br>Tubing Pup Joint, 2 3/8in,                   |                                  | -Surface, 7in, 6.45                   |   | пкв             | . <i>•</i>              |
| 141                    | 141            | 4.70lbs/ft, J-55, 2,400 ftKB   |                                  | ··· •                                 |   |                 |                         |
| 761                    | 761            | Hydraulic Fracture, 7/8/2009,<br>FRAC FRUITLAND COAL.  |                                  |                                       |   |                 | - OJO ALAMO, 761        |
| 893                    | 893            | FORMATION BROKE DOWN 712<br>PSI. BULLHEAD 500 GALS   |                                  | PERF - FRUITLAN                       | D COAL, 2,366-2,  | 376,            | KIRTLAND, 893           |
| 1,833                  | 1,833          | 10% FORMIC ACID IN FRONT<br>OF FRAC. PUMP 4,000 GAL 25#  |                                  | PERF - FRUITLAN                       | D COAL, 2,434-2,4   | 452,            | - Fruitland, 1,833      |
| 1,982                  | 1,982          | X-LINK PRE-PAD. FOLLOWED<br>BY 26,182 GAL 25# LINEAR   |                                  | Production Casing                     | Cement, 11-2,68<br>CEMENT HEAD &                          |                 |                         |
| 1,992                  | 1,992          | 75% N2 FOAM W/ 30,260#   |                                  | CEMENT LINES. T                       | EST LINES TO 350<br>CEMENT 4-1/2" CA                      | 0 PSI           |                         |
| 2,366                  | 2,366          | 16/30 BRADY SAND W/ 1<br>1,010,600 SCF N2, MAX PSI 1   |                                  | AS FOLLOWS. PL                        | JMP 10 BBLS OF V<br>FLUSH, 10 BBLS                        | VATER,          |                         |
| 2,376                  | 2,376          | 2134, MIN PSI 1025, AVG PSI<br>1931. MAX RATE 33 BPM, MIN<br>RATE 17 BPM, AVG RATE 32                            |                                  | VVATER. PUMP LE                       | 7.8 CUFT WITH 39  | 6               |                         |
| 2,400                  | 2,400          | BPM. ISIP 1523.<br>[Tubing, 2 3/8in, 4.70lbs/ft, J-55.]  |                                  | CACL, 0.25 PPS C<br>LCM-1, 0.4% FL-5  | 52, 0.4% SMS AT   | 12.1            | · .                     |
| 2,402                  | 2,401          | 2,402 ft/kB, 2,433 ft/kB<br>1.78 F NIPPLE, 2 3/8in,  |                                  | PPG = 70.8 BBLS<br>PUMP TAIL CEME     | NT: 90 SKS TYPE I   | ⊪, 139.2        |                         |
| 2,433                  | 2,433          | 4.70lbs/ft, J-55, 2,433 ftKB,<br>2,434 ftKB  |                                  |                                       | 52 AT 14.6 PPG =  | 22.1            |                         |
| 2,434                  | 2,434          | Mule Shoe/X-CHECK, 2 3/8in,<br>4.70lbs/ft, J-55, 2,434 ftKB,   |                                  | BBLS, YIELD - 1.3<br>DOWN, WASH LII   |   | PLUG &          |                         |
| 2,435                  | 2,434          | 2,435 ftKB   |                                  |                                       | S OF FRESH WAT  | ER              |                         |
| 2,452                  | 2,452          |  |                                  | HOLD FOR 10 MIN                       | UTES. FLOAT HE  | LD. 10          | PICTURED CLIFFS,        |
| 2,467                  | 2,466          |  |                                  | #-I                                   | IGHOUT JOB. RIG   |                 | 2,467                   |
| 2,622                  |                |  |                                  | Cement Plug, 2,64<br>Production1, 41/ | 7-2,687, 5/11/200<br>2in, 4.052in, 11 ftK                 |                 | LEWIS, 2,622            |
| 2,647                  | 2,646          | PBTD, 2,647  |                                  | CASING EQUIPME                        | AFETY MEETING.<br>NT, CHANGE OUT                          | RAMS.           | . ,                     |
| 2,647<br>2,648         | 2,647          |  |                                  | ∫ CASING TO 2687                      | 2" 10.5# J-55 ST&<br>.0". TOP OF FLOA                     | T SHOE          |                         |
| 2,686                  | 2,647<br>2,685 |  |                                  | 2647.2'. MARKE                        |   | _               |                         |
| 2,687                  | 2,686          |  |                                  | ON EACH JOINTS                        | 1- FLOAT SHOE J<br>#2, 4, 6, 8, 10, 13<br>REL @ 2130 HRS. | 16              |                         |
| 2,007                  | 2,000          | [TD, 2,702, 5/11/2009]   |                                  | DOWN CASING C                         | REW., 2,687 ftKB<br>87-2,702, 5/11/200                    | _               |                         |
|                        | L              |  | Page                             | 1/1                                   |   | kep             | ort Printed: 2/26/2013  |

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# Proposed Schematic

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| 12071<br>0045348   | 346 021        | -031N-011VV-N                           | BASIN FRUITLAND CO                                    |   |                       | NEW ME       | XICO   |   | E  |
|--------------------|----------------|---|---|---|-----------------------|--------------|--|---|--|
| ourd Elevar<br>5;8 | 876.00         | אז נכוונגא איז אונגא<br>5,887.00        | 1:E-Croud D4ta  | 11.00   | 18:00                 | ing Flange D | Staror (f)   | I E-Tubleg Honger DLa   | nior (1)                                 |
| - 18 P             | NUM TO NOT     | No. And And                             | Well Config: VER                                      | TICAL - C   | riginal Hole          | 1/1/202      | 0 valaseitt  | to the state of the   | Rostin Holling                           |
| ftKB<br>(MD)       | Frm Final      | Martin<br>Altin                         | a na panana panana panana na manana ka                | ل والمبين مواله مولي تولي .<br>مراجع المراجع المراجع .<br>الأمو المراجع المراجع المراجع . | Schematic             | - Actual     | hter in de stande de<br>Stande de stande de st | ante e la parte de la companya de la parte de la companya de la companya de la companya de la companya de la co<br>Altra de la companya d<br>Altra de la companya d | an a |
|                    |                |   |   | .,,   |                       |              |  |   |  |
| 11                 |                |   |   |   | 111111                | BR           | 191-1-1-1919-19-19-19-19-19-19-19-19-19-   | 1993-15-15-15-15-23-15-15-15-15-15-15-15-15-15-15-15-15-15-   | <u>ici-1-7-1-1-7-1 1</u>                 |
| 12                 |                |   | ·   |   |                       | ØØ.          |  | •   | . •                                      |
| 13                 |                |   |   |   |                       |              |  | SG CMT, 11-136, 2/3<br>TO SURFACE   | /2009, CIRC                              |
| 135                | ·              | Surface                                 | , 7 in, 6.456 in, 11 ftKB, 13                         |   |                       | ØØ/          | Plug #4, 11-   | 186, 1 <i>/1 /</i> 2020, Mix 18   |  |
| 136                |                |   | 11.61   | 3   |                       |              |  | spot a balanced plug<br>surface, circulate go   |  |
| 141                |                |   |   |   |                       |              | / out casing v<br>Plug #3, 711   | alve.<br>-943, 1/1/2020, Mix 2  | 2 sx Class                               |
| 186                |                |   |   | E E   |                       | Ø            | coment and   | opot bolance plug in:<br>intland and Ojo Alamo  | side easing t                            |
| 711                | A 16 AL ALIA - | 704                                     | •   | Į.  | <u>IIIIII</u>         | ß            | (topo.   | •   |  |
| 761                | - OJO ALAMO, i |   |   |   |                       |              |  | 33-2,316, 1/1/2020, N<br>lient and spot plug ins  |  |
| 893                | KIRTLAND, 8    |   |   |   |                       |              |  | ruitland Coal perforat  |  |
| 943                |                |   |   |   |                       | 1            | Hydraulic Fr   | acture, 7/8/2009, FR.   |  |
| 1,783              |                |   |   | Ľ.  |                       | 0            |  | COAL, FORMATION<br>SI, BULLHEAD 500 (   |  |
| 1,833              | -FRUITLAND, 1, | 633                                     |   |   |                       | Ø            | FORMIC AC  | D IN FRONT OF FRAM  | C. PUMP 4,0                              |
| 1,982              |                |   | - ·.  | E   |                       | 0            | 26,182 GAL   | LINK PRE-PAD FOLL<br>25# LINEAR 75% N2  | FOAMW                                    |
| 1,992              |                |   |   |   |                       | 91           |  | 40 BRADY SAND & 5<br>ND VV/ 1,010,600 SCF   |  |
| 2,316              |                | Cer                                     | nent Retainer, 2,316-2,31                             | 7   |                       | 4            | ∫ 2134, MIN P  | SI 1025, AVG PSI 19:<br>RATE 17 BPM, AVG  | 31. MAX RA                               |
| 2,317              |                | , |   |   | Printing and Printing | Ø            | OPM. ISIP 15   | 23.   |  |
| 2,366              | · • , •        |   | PERF - FRUITLAND COAL<br>2,366-2,376, 7/3/200         |   |                       | #I)          |  | 52-2,517, 1/1/2020, N<br>Id spot a balanced pl  |  |
| 2,400              |                |   |   |   |                       |              | Scasing to ise   | plate the Pictured Clif<br>Casing Cement, 11-2,   | is formation                             |
| 2,402              |                |   |   |   |                       | ЯH           | ∬5/11/2009, F  | RIG UP CEMENT HEAD  | 8 CEMENT                                 |
| 2,433              |                |   |   |   |                       |              |  | LINES TO 3500 PSI I<br>EMENT 4-1/2" CASING  |  |
| 2,434              |                |   |   |   |                       | Ø.           |  | PLIMP 10 BBLS OF W<br>JD FLUSH, 10 BBLS (   |  |
| 2,435              |                |   | PERF - FRUITLAND COAL<br>2,434-2,452, 7/8/2001        |   |                       | <b>#</b>     | PUMP LEAD  | CEMENT: 187 SKS P   | REMIUM LITI                              |
| 2,452              | PICTURED CLIF  | FS December                             | PBTD, 2,64  | 1 "长  | <u>IIIIII</u>         | Øt"          | FLAKE, 5 PF  | WITH 3% CACL, 0.24<br>S LCM-1, 0.4% FL-5  | 2, 0.4% SM                               |
| 2,467              | 2,467          | ftKE                                    | ction1, 4 1/2m, 4.052m, 1<br>, HOLD PRE JOB SAFETY    |   |                       | 6-1          |  | F = 70.8 BBLS, YIELD<br>JMP TAIL CEMENT: 9  |  |
| 2,517              |                | EQUIPM                                  | MEETING, RIG UP CASING<br>ENT, CHANGE OUT RAMS        |   |                       | 11           | . ∭III, 139,2 CUI  | T WITH 1% CACL, 0   | .25 PPS                                  |
| 2,622              | LEWIS, 2,62.   | 2RUN                                    | 165 JTS, 4-1/2" 10,5# J-5<br>ASING TO 2687.0'. TOP OI | 3K  |                       | 1            | 22.1 BBLS,   | YIELD - 1,38 CUFT/SI  | <. Shut                                  |
| 2,647              |                | FLOAT                                   | Shoe @ 2686.1', Top of                                |   | ellella               | a -          |  | SH LINES, DROP WIP<br>MTH 10 BBLS OF SU   |  |
| 2,647              |                | FL0                                     | DAT COLLAR @ 2647.2'.<br>MARKER JT. @ 1982.4'.        |   |                       |              | 8-32 BBLS 0  | OF FRESH WATER<br>AT 0030 HOURS. H  | BUMP PULIC                               |
| 2,648              |                |   | ALIZERS: 1- FLOAT SHOP<br>1 ON EACH JOINTS #2, 4      | = \   |                       |              | MINUTES. FI  | OAT HELD, 10 BBL  | S OF CEMEN                               |
| 2,686              |                |   | 6, 8, 10, 13, 16, 44. LAN                             |   |                       | Ø            |  | E. FULL RETURNS T<br>DVVN CEMENT EQUIP:<br>DVVN CEMENT EQUIP:   |  |
| 2,687              | 2 2 2 2 2      | DOWN C                                  | NDREL @ 2130 HRS. RK                                  | ≷. <b>∟_∦∉</b>  | <u> </u>              |              |  | 2,647-2,687, 5/11/2   |  |

## 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: 100 Mudge B

## **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 Kirtland plug from 965' - 865'.

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.