Form 3160-5 (August 2007)

## **UNITED STATES** DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

RECEIVED

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

er 4		
401		
9. API Well No. 30-045-08401		
akota		
lew Mexico		
TA		
Vater Shut-Off Well Integrity		
Other		

wellbore schematics. The Pre-Disturbance Site Visit was held on 4/13/2016 with Bob Switzer/BLM. The Re-Vegetation Plan is attached. A Closed Loop system will be used.

BLM'S APPROVAL OR ACCEPTANCE OF THIS **ACTION DOES NOT RELIEVE THE LESSEE AND OPERATOR FROM OBTAINING ANY OTHER AUTHORIZATION REQUIRED FOR OPERATIONS** ON FEDERAL AND INDIAN LANDS

Notify NMOCD 24 hrs prior to beginning operations

SEE ATTACHED FOR CONDITIONS OF APPROVAL



OIL CONS. DIV DIST. 3 APR 2 5 2016

<ol> <li>I hereby certify that the foregoing is true and correct. Name (Printed/Typed)</li> </ol>				
Dollie L. Busse	Title	Regulatory T	echnician	
Signature Alle Busse	Date	4/18/	/16	4.3
THIS SPACE FOR FEL	DERAL C	R STATE OFF	ICE USE	
Approved by were Q		Title	PE	Date 4/20/16
Conditions of approval, if any, are attached. Approval of this notice does not warrant of that the applicant holds legal or equitable title to those rights in the subject lease which entitle the applicant to conduct operations thereon.		Office	FFO	
Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any	v person knov	wingly and willfully	to make to any departme	ent 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)

## ConocoPhillips COOPER 4 Expense - P&A

Lat 36° 43' 47.996" N

Long 108° 1' 44.364" W

PROCEDURE

This project requires the use of a 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 COP safety and environmental regulations. Test rig anchors prior to moving in rig. Before RU, run slickline to remove downhole equipment. If an obstruction is found, set a locking-3-slip-stop in the tubing.
- 2. MIRU workover rig. Check casing, tubing, and bradenhead pressures and record them in WellView. If there is pressure on the BH, contact the Wells Engineer.
- 3. Remove existing piping on casing valve. RU blow lines from casing valves and begin blowing down casing pressure. Kill well as necessary. Ensure well is dead or on a vacuum.
- 4. ND wellhead and NU BOPE. Pressure and function test BOP to 250 psi low and 1000 psi over SICP high to a maximum of 2000 psi held and charted for 10 minutes per COP Well Control Manual. PU and remove tubing hanger.
- 5. TOOH with tubing (per pertinent data sheet).

Tubing size: 2-3/8" 4.7# J-55 EUE

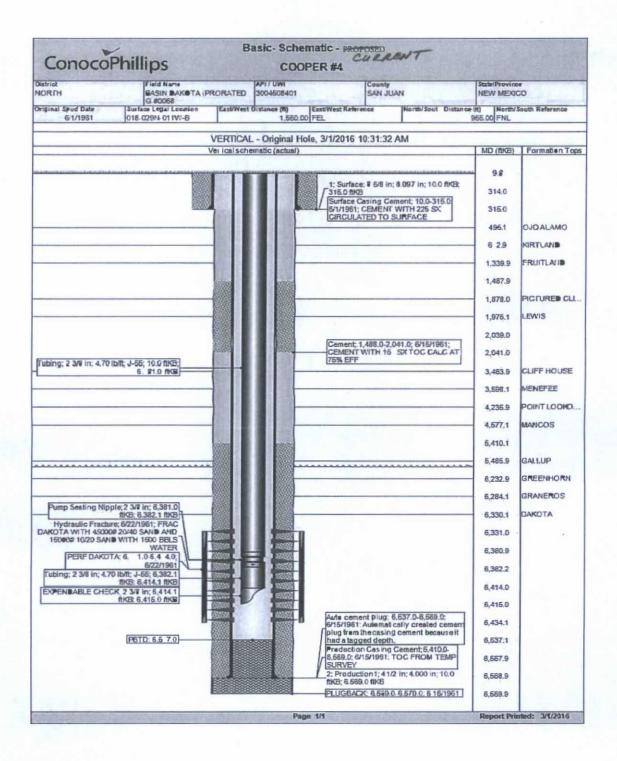
Set Depth: 6,415'

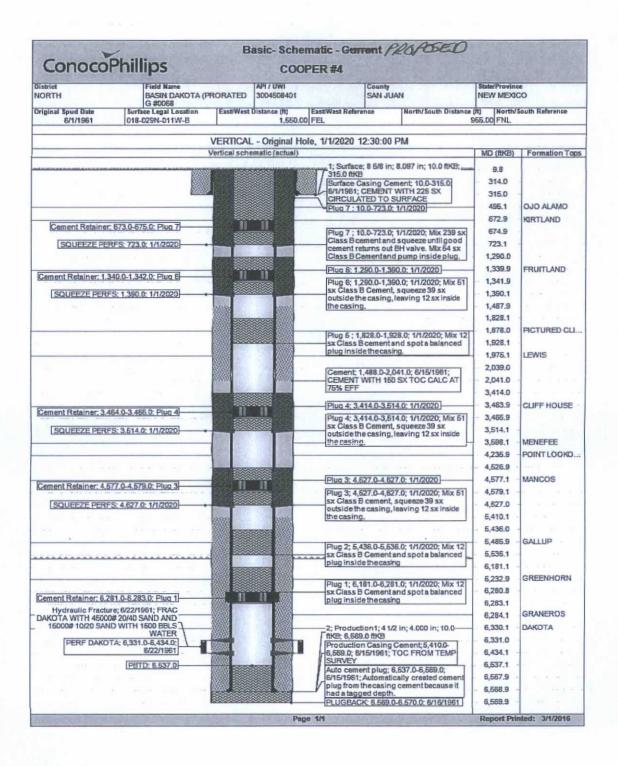
KB: 10'

- 6. PU 3-3/4" bit and watermelon mill and round trip as deep as possible above top perforation at 6,331'.
- 7. PU 4-1/2" CR on tubing, and set at 6,281'. Pressure test tubing to 1000 psi. Sting out of CR. Load hole, and pressure test casing to 800 psi. If casing does not test, spot or tag subsequent plugs as appropriate. POOH with tubing.
- 8. RU wireline and run CBL with 500 psi on casing from CR at 6,281' to surface to identify TOC. Adjust plugs as necessary for new TOC. Email log copy to Wells Engineer, Troy Salyers (BLM) at tsalyers@blm.gov, and Brandon Powell (NMOCD) at brandon.powell@state.nm.us upon completion of logging operations.

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 Class B mixed at 15.6 ppg with a 1.18 cf/sk yield.

- 9. Plug 1 Dakota Formation Top and Dakota Perforations, 6181' 6281', 12 Sacks Class B Cement
  Mix 12 sx Class B cement and spot a balanced plug inside the casing to cover the Dakota top and perforations. PUH.
- 10. Plug 2 Gallup Formation Top, 5436' 5536', 12 Sacks Class B Cement Mix 12 sx Class B cement and spot a balanced plug inside the casing to cover the Gallup top. PUH.
- 11. Plug 3 Mancos Formation Top, 4527' 4627', 51 Sacks Class B Cement'
  RIH and perforate 3 squeeze holes at 4,627'. Establish injection rate into squeeze holes. RIH with a 4-1/2" CR and set at 4,577'. Mix 51 sx
  Class B cement. Squeeze 39 sx outside the casing, leaving 12 sx inside the casing to cover the Mancos top. POOH.
- 12. Plug 4 Mesaverde Formation Top, 3414' 3514', 51 Sacks Class B Cement
  RIH and perforate 3 squeeze holes at 3,514'. Establish injection rate into squeeze holes. RIH with a 4-1/2" CR and set at 3,464'. Mix 51 sx
  Class B cement. Squeeze 39 sx outside the casing, leaving 12 sx inside the casing to cover the Mesaverde top. PUH.
- 13. Plug 5 Pictured Cliffs Formation Top, 1828' 1928', 12 Sacks Class B Cement
  Mix 12 sx Class B cement and spot a balanced plug inside the casing to cover the Pictured Cliffs top. POOH.
- 14. Plug 6 Fruitland Formation Top, 1290' 1390', 51 Sacks Class B Cement
  RIH and perforate 3 squeeze holes at 1,390'. Establish injection rate into squeeze holes. RIH with a 4-1/2" CR and set at 1,340'. Mix 51 sx
  Class B cement. Squeeze 39 sx outside the casing, leaving 12 sx inside the casing to cover the Fruitland top. POOH.
- 15. Plug 7 Ojo Alamo and Kirtland Formation Tops and Surface Plug, 0' 723', 293 Sacks Class B Cement RU WL and perforate 4 big hole charge (if available) squeeze holes at 723'. TOOH and RD wireline. Observe well for 30 minutes per BLM regulations. RU pump, close blind rams and establish circulation out bradenhead with water. Circulate BH clean. TIH with 4-1/2" CR and set at 673'. Mix 239 sx Class B cement and squeeze until good cement returns to surface out BH valve. Shut BH valve and squeeze to max 200 psi. Sting out of CR and reverse circulate cement out of tubing. TOOH and LD stinger. TIH with open ended tubing to 673'. Mix 54 sx Class B cement and pump inside plug. TOOH and LD Tubing. SI well and WOC.
- 16. Nipple down BOP and cut off casing below the casing flange. Install P&A marker with cement to comply with regulations. RDMO.





## 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: Cooper 4

## 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:
  - Set plug #3 (4659-4559) ft. inside/outside to cover the Mancos top. BLM picks top of Mancos at 4609 ft.
  - b) Set a cement plug (2940-2840) ft. inside/outside to cover the Chacra top. BLM picks top of Chacra at 2890 ft.
  - c) Set plug #6 (1608-1508) ft. to cover the Fruitland top. BLM picks top of Fruitland at 1558 ft.

Operator will run CBL from CR @ 6,281 ft. to surface to identify TOC. Submit the electronic copy of the log for verification to the following addresses: <a href="mailto:jwsavage@blm.gov">jwsavage@blm.gov</a> Brandon.Powell@state.nm.us

H<sub>2</sub>S has not been reported in this section, however, *Very High concentrations of H<sub>2</sub>S (900 ppm GSV)* have been reported in the Cliff House Ss at the Crawford GC B #1 well located NWSW/4 Sec. 24, 28N, 12W. *It is imperative that H<sub>2</sub>S monitoring and safety equipment be on location during P&A operations at this well site.* 

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.