Form 3160-5
(August 1999)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

NM Oil Cons. Division
1625 N. French Dr.
Hobbs, NM 88240

FORM APPROVED
OMB No. 1004-0135
Expires November 30, 2000

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 reverse side

5. Lease Serial No.
NM01244(a)

6. If Indian, Allottee or Tribe Name

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

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

8. Well Name and No.
Bell Lake Unit 2 #6

2. Name of Operator
ConocoPhillips Company

9. API Well No.
30-025-08483

3a. Address
4001 Penbrook Street - Odessa, TX 79762

3b. Phone No. *(include area code)*
(432)368-1506

10. Field and Pool, or Exploratory Area
Bell Lake Devonian Gas

4. Location of Well *(Footage, Sec., T., R., M., or Survey Description)*
660' FSL & 1980' FEL, Sec. 6, T-23-S, R-34-E

11. County or Parish, State
Lea County, NM

12. CHECK 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
☐ Subsequent Report	☐ Alter Casing	☐ Fracture Treat	☐ Reclamation	☐ Well Integrity
☐ Final Abandonment Notice	☐ Casing Repair	☐ New Construction	☐ Recomplete	☒ Other
	☐ Change Plans	☐ Plug and Abandon	☐ Temporarily Abandon	
	☐ 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 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.)

Procedure attached.

OCT 2004 RECEIVED Hobbs OCD

RECEIVED
2004 OCT 22 AM 9:18
BUREAU OF LAND MGMT.
ROSWELL OFFICE

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

Title
Regulatory Representative

Signature
Stacey D. Linder

Date
10/21/2004

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by
(ORIG. SGD.) DAVID R. GLASS

Title

Date
OCT 22 2004

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, makes 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.

(Instructions on reverse)

ConocoPhillips

Bell Lake Unit 2 No. 6 – Gas Well
Production Logging / Through Tubing Plug Back Procedure

Location:	Sec 6, T-22-S, R-34-E, Lea Co. New Mexico
AFE #:	None
AFE Amount:	Lease Expense
Spud Date:	00/00/60
P&A Date:	N/A
API Number:	30025 - 08483
Zone/Pool:	North Bell Lake Unit Devonian
Battery Destination:	Existing

Original TD:	16,506'
PBTD:	14,734' (Through Tubing Bridge Plug set at 14,750' with cement on to to 14,734')
BHT:	220 Degrees
Tubing:	2 3/8" Tubing Surface to 13,980'. (Baker Model D Packer Assembly Set @ 13,980 with 1.81" minimum ID profile nipple beneath the packer assembly)

KBE:	3485'
GLE:	3465'
KBM:	20' above GL

Casing Program

Csg Size (in)	Depth (ft)	Wt (lb/ft)	Grade	Drift ID	Burst (psi)	Coll (psi)
7	0 – 14,165	35 to 26	P110 & N-80	5.879	7240	5410
5	14,003 – 14,900	18	N-80	4.151	10,140	10,490

Devonian Perforated Intervals

Formation	Top Perf.	Bottom Perf.	Perforated Interval
Devonian	14,568	14594	26
Devonian	14,609	14,639	30
Devonian	14,662	14,714	52
Thur Tubing Bridge Plug	**14,734**		
Devonian	14,764	14,804	40
Devonian	14,819	14,829	10

Well Control Requirements:

Well Control: All electric line or slick line work will be done using tested 10,000 PSIG WP equipment. The current shut-in wellhead pressure is between 4,500 PSIG and 5,000 PISG but it could be as high as 5,600 PSIG if all the water is shut off after setting the through tubing bridge plug. The static bottom hole pressure is 6,400 PSIG. The gas contains 8,000 PPM H2S therefore all ConocoPhillips safety guidelines for sour gas operations should be reviewed with all contractors prior to beginning any work.

Any equipment used during this operation including slick line or electric line will be rated for sour service.

Safety Note: The 7" casing string has between 1,000 PSIG and 1,800 PSIG gas pressure at all times. This is due to a leak somewhere in the tubing or packer / seal assembly.

Production Logging Procedure:

Note: All depths referenced to 20' RKB.

1. Prior to rigging up verify that all the tree valves and the swab valve are working properly and will maintain a proper seal.
2. RU slick line company. Close the swab valve and bleed off any pressure via the bleed valve. Install 10,000 WP lubricator with the initial tool sting consisting of 1.6" gauge ring on the bottom of a +/- 12' X1.5" OD sinker bar. **(Note: ConocoPhillips will provide a working platform or a manlift.)** Once the lubricator is installed, pressure test against the swab valve to 6,000 PSIG using a kill truck.
3. Open the swab valve then close the wing valve. Start in the hole with the tool string and once the tools 100' below the tree open the wing valve and reestablish flow.
4. Once the tool sting reaches approximately 13,500', close the wing valve and continue in the hole with the sinker bars. Once the tools are below the packer assembly open the wing valve and reestablish flow. Tag PBTD estimated at 14,734'. When the tool string reaches approximately 14,200' close the wing valve and pull up back up into the tubing with the tools. Once the tool string is in the tubing open the wing valve and reestablish flow. When the tool string is approximately 300' below the tree close the wing valve. Once the tool string is in the lubricator and the swab valve is closed, open the wing valve and reestablished flow. **Safety Precaution: Be sure to properly bleed the lubricator in a downwind direction so that no one is exposed to sour gas. As a safety precaution the wireline operator will don a fresh air pack while he is bleeding the lubricator.**
5. PU the production logging tool string consisting of 1 ½" GR, CCL, Dielectric, Spinner, Temperature and Pressure sensors and install the lubricator then pressure test to 6,000 PSIG against the swab valve.
6. Once the lubricator has been pressure tested, close the wing valve and begin in the hole with the production logging tool string. Once the tools are 100' below the tree open the wing valve and reestablish flow.
7. Make stationary 3 minute stops every 1,000 going in the hole to 13,500'. Close the wing valve and continue in the hole. Once the tool sting reaches approximately 14,200', open the wing valve and reestablish flow. Continue to within 10' from PBTD as determined on the dummy run.
8. Log a minimum of 3 production logging passes with the well flowing at a 200 PSIG FTP. Each pass will be made at 30, 60 and 90 feet per minute.

9. After the last logging pass trip back to within 10' from PBTD and perform stationary readings at the following intervals:

	Spinner Depth
Beneath the Bottom Perforations	14,720'
Above the Bottom Perforations	14,650'
Above the Middle Perfoations	14,600'
Above the Top Perforations	14,500'

10. After the last stationary reading pull up to 14,200' and close the wing valve. Pull up into the tubing then open the wing valve and reestablish flow.

11. When the tool reaches 300' from surface close the wing valve. When the tool string is in the lubricator, close the swab valve and open the wing valve. **Safety Precaution: Be sure to properly bleed the lubricator in a downwind direction so that no one is exposed to sour gas. As a safety precaution the wireline operator will don a fresh air pack while he is bleeding the lubricator.**

12. Download the logging data and perform quality check prior to leaving the location. Leave the well producing.

13. Obtain 2 field copies and request full interpretation of the data. If after the full interpretation it is determined that an attempt to should be made to isolate the lower sets of perforations via a through tubing bridge plug continue with the procedure as written.

Through Tubing Bridge Plug Setting Procedure:

Safety Precation: **The shut-in wellhead pressure is expected to be between 4,500 to 5,000 PSIG and contains 8,000 PPM H2S.**

Note: **The wing valves will be closed and the well will remain shut-in at all times during this operation.**

1. The well should be shut-in a minimum of two days prior to setting the plug.

2. RU Schlumberger electric line company. Install a 10,000 WP lubricator with the initial tool sting consisting of 1 11/16" gauge ring on the bottom of a +/- 12' X1.5" OD sinker bar. **(Note: ConocoPhillips will provide a working platform or a manlift.)** Once the lubricator is installed, pressure test against the swab valve to 6,000 PSIG using a kill truck.

3. RIH with the dummy run and tag PBTD at 14,734'. POOH with tool string, once the tool string is in the lubricator and the swab valve and gate valves are closed, bleed the pressure off the lubricator. **Safety Precaution: Be sure to properly bleed the lubricator in a downwind direction so that no one is exposed to sour gas. As a safety precaution the wireline operator will don a fresh air pack while he is bleeding the lubricator.**

4. Reinstall the lubricator and pressure test to 6,000 PSIG with Schlumberger's 1 11/16" PosiSet Through Tubing plug in the lubricator. Open the swab valve and RIH with the plug. Correlate using the CCL and the production logs. Set the plug and TOOH. **Note: The differential rating on this plug is 1,000 PSIG so do not attempt to flow the well or bleed any pressure off the tubing prior to dump bailing 10' of cement and allowing it to set up.**

5. PU a 1 11/16" dump bailer and RIH to dump bail 10' of Class H cement containing ---------- . RD Schlumberger and leave the well shut in for a minimum of 72 hours set time prior to bringing the well back on production. **Safety Precaution: Be sure to properly bleed the lubricator in a downwind direction so that no one is exposed to sour gas. As a safety precaution the wireline operator will don a fresh air pack while he is bleeding the lubricator.**
6. Open the well to the stack pack line heater section via the choke on a 10/64" setting. Attempt to flow the well at a rate between 1 to 2 MMCFGPD. If the rate begins to decline continue to open the choke setting to maintain the 1 to 2 MMCFGPD rate. If the well maintains a rate of 1 to 2 MMCFGPD on the smaller choke setting leave it constant until the rate begins to decline. If the well begins to make water similar to rates prior to setting the plug continuing opening the choke until it can be switched out of the line heater and produced directly to the HP separator, bypassing the choke.
7. Production will be optimized depending upon post procedure tests.