

submitted in lieu of Form 3160-5

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

Sundry Notices and Reports on Wells

98 APR -2 PM 1:35

1. Type of Well
GAS

070 FARMINGTON, NM

2. Name of Operator

**BURLINGTON
RESOURCES**

OIL & GAS COMPANY

3. Address & Phone No. of Operator

PO Box 4289, Farmington, NM 87499 (505) 326-9700

4. Location of Well, Footage, Sec., T, R, M

830' FSL, 950' FWL, Sec. 31, T-28-N, R-9-W, NMPM

5. Lease Number

SF 077107-A

6. If Indian, All. or
Tribe Name

7. Unit Agreement Name

8. Well Name & Number

Hancock B #5

9. API Well No.

30-045-13065

10. Field and Pool

Basin Dakota

11. County and State

San Juan Co, NM

12. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OTHER DATA

Type of Submission

Type of Action

☒ Notice of Intent

☐ Abandonment

☐ Change of Plans

☐ Subsequent Report

☐ Recompletion

☐ New Construction

☐ Final Abandonment

☐ Plugging Back

☐ Non-Routine Fracturing

☒ Casing Repair

☐ Water Shut off

☐ Altering Casing

☐ Conversion to Injection

☐ Other -

13. Describe Proposed or Completed Operations

It is intended to repair the casing on the subject well according to the attached procedure and wellbore diagram.

*Verbal approval received from W. Townsend on 4-2-98 @ 8:00 a.m.

RECEIVED
APR - 6 1998

OIL CON. DIV.

DIST. 3

14. I hereby certify that the foregoing is true and correct.

Signed Randy Steinhilber (KM) Title Regulatory Administrator Date 4/2/98

VKH

(This space for Federal or State Office use)

APPROVED BY Jim Hunt Title Acting

Date APR - 2 1998

CONDITION OF APPROVAL, if any:

NMOCD

Casing Repair Procedure


4/1/98

Hancock B No. 5
DPNO 50559A
Basin Dakota
830' FSL & 950' FWL, Section 31, T-28-N, R-9-W
San Juan County, NM

Project Summary: The Hancock B No. 5 was drilled in 1962 as a Dakota producer. In 1973 a packer was run above the pay zone due to a suspected casing leak up the hole. In 1989 the casing leaks were squeezed, but the packer was left in place because it could not be released. The packer is a Baker Lok-Set with tail-pipe extending into the perforations. We know that the tail-pipe has at least 20' of sand fill in it. I believe that the packer will not release because the tailpipe is stuck in sand. A Lok-Set requires 8-10 turns in order to release. During these turns the entire packer mandrel rotates, including the tailpipe. Recently the well went from 130 MCFD to 0 MCFD. There are two potential reasons: 1) The 1989 squeeze job failed and the Lewis/Cliffhouse water corroded through the tubing and killed the well or 2) sand fill below the packer covered the tubing perforations and stopped production. If we assume that the casing is filled with sand to 6880' (depth from a 1989 wireline check), then the lower Dakota pay is covered with sand. In addition, we recently removed a piston from this well with wireline, but could not get down to the tubing stop. I propose to cut off the tubing below the packer which will allow the packer to release. We will then fish the tailpipe. The next step is to test and squeeze the casing as necessary and then clean out the well to PBTD.

1. Install and test location rig anchors. Prepare blow pit. Comply to all NMOCD, BLM, and Burlington regulations.
2. MOL and RU daylight pulling unit. Conduct safety meeting for all personnel on location. NU relief line. Blow down well and kill with 2% KCl water as necessary. Try to minimize the amount of water put on the Dakota formations. ND wellhead and NU BOP.
3. Release On/Off Tool (left hand) and POOH with tubing. Visually inspect tubing and replace joints as necessary. RIH with On/Off Tool and latch back on to packer.
4. RIH with chemical cutter on wireline (1.6875" OD cutter, the On/Off profile is most likely 1.81" ID) and cut tubing approximately 80' below the packer (6690'). POOH with wireline. Release the Lok-Set Packer by picking up 3-6 points and rotating to the right 8-10 turns at the packer. POOH with tubing and packer (apply right hand turns on the way out to ensure that packer remains unset).
5. RIH with overshot, bumper sub, drill collars and jars. Latch on to 2-3/8" tail-pipe and jar loose. POOH with fish. RIH with casing scraper or mill to PBTD (top of fill), POOH.
6. RIH with packer and RBP to approximately 6680' and set RBP. Set packer and test RBP to 500 psi. Test casing to 500 psi. If casing tests then swab well down, release RBP and POOH. If the casing does not test, then isolate the casing holes with the packer and RBP. Establish a pump-in rate and pressure. Dump sand on the RBP and Notify the Operations Engineer for a squeeze design. Squeeze according to the design, WOC and drill out cement. Pressure test casing to 500 psi and resqueeze as necessary.
7. RIH with retrieving head and circulate sand off of RBP. Either unload well with air or swab down. Release RBP and POOH.

8. RIH with bit and clean out to PBTD with air. POOH.
5. RIH with expendable check, 1 jt., SN and 2-3/8" production tubing. Broach all tubing. Hang tubing at approximately 6800'. ND BOP, NU wellhead. Pump off check and blow well in.
7. RDMO PU. Production Operations will install a plunger lift.

Recommended:  4/2/98
Operations Engineer

Approval: _____
Drilling Superintendent

Operations Engineer: Kevin Midkiff
Office: 326-9807
Pager: 564-1653
Home: 324-8596

Production Foreman: Johnny Ellis
Office: 326-9822
Pager: 327-8144

Hancock B No. 5

Current -- 3/31/98

Spud: 04/30/62
1st Delivered: 08/27/62
Elevation: 6350' GLE
6360' KB

DPNO: 50559A
Basin Dakota

830 FSL, 950' FWL
Unit M, Sec. 31, T28N, R9W, SJC, NM
Lat/Long: 36°36.8134", -107°50.0555"

Workovers: (1/73) TOOH w/tbg, Set Baker Lok Set @ 6612' tail @ 6900'. (4/89) Unable to unset pkr. Released rig. (5/89) Released on-off tool. TOOH w/tbg, laid down 5 jts w/holes. TIH w/tbg & on-off tool. could not release pkr. TOOH w/tbg & on-off tool. TIH w/RBP & pkr. Set RBP @ 5970'. Isolated hole between 5044' & 5105'. Set RBP @ 4858'. Isolated hole between 2509' & 4360'. Located top hole @ 2594' to 2626'. Set pkr @ 2377'. Sqz'd w/500 sx "B" neat. Drill cmt from 2546' to 4353'. Presured test to 500#, ok. TIH w/RBP, set @ 6210'. Set pkr @ 4295'. Sqz'd w/20 sx. TOOH w/pkr. Drilled cmt. Pressure tested to 500#, ok. RIH w/tbg & on-off tool. (6/89) Perf'd jt plugged. Perf'd 6 holes from 6870' to 6875'.

(5/89) Isolated Casing leaks at 2594' - 4360'
Squeezed with 500 sx.
Tested to 500 psi

(5/89) Isolated Casing leaks at 5044' - 5105'
Squeezed with 20 sx.
Tested to 500 psi

13-3/4" Hole

8-3/4" and
7-7/8" Hole

PBTD @ 6954'

TD @ 6975'

9-5/8" 36# J-55 csg at 298'
Cemented with 200 sx w/ 1/4 pps Flocele
& 1/4 cf/sx stratacrete "6".
TOC=Surface (circ.)

TOC @ 2050' (TS)

2-3/8" 4.7# J-55 tubing @ 6900'. Baker Lok-set
Packer @ 6612' w/on-off tool. Tail pipe is bull
plugged w/3' perf jt on btm. Tbg perf'd from
6870-75', 6 holes. (tubing plugged up to at least
6880')

DV Tool @ 2567'

TOC=4360' (TS)

DV Tool @ 4890'

TOC= 5910' (TS)

Baker Lok-Set Packer at 6612' with on/off tool

Upper Dakota, 6729-33' w/2 spf,
6746-50' w 2/spf, 6794-6802'
w/1spf. Frac w/64,500 gals
slickwater. 45,000# of 40/60 sand
& 10,000# 20/40 sand (1/2 to 1
ppg).

Lower Dakota, perf'd 6909-13',
6930-34' (2 spf). Frac w/16,128
gals slickwater & 5000# 40/60 sand
(screen out) (1/2 ppg)

4-1/2" 10.5# & 11.6# J-55 csg at 6975'

1st Stage: 220 sx 4% gel, 1/4 pps flocele, 1/4 pps
tuffplug & 0.4% HR-4 + 50 sx w/ 0.4% HR-4. (TOC =
5910' by TS). (DV @ 4890') 2nd Stage - 270 sx 65/35
poz w/6% gel & 1/4 cf/sk stratacrete "6". (TOC = 4360'
by TS). (DV @ 2567') 3rd stage - 110 sx 65/35 poz w/
6% gel. TOC = 2050' (TS)

Ojo Alamo @ 1392'
Kirtland @ 1518'
Fruitland @ 2139'
Pictured Cliffs @ 2380'
Lewis @ 2430'
Cliffhouse @ 3930'
Menefee @ 4049'
Point Lookout @ 4660'
Gallup @ 5683'
Greenhorn @ 6626'
Greneros @ 6684'
Dakota @ 6792'