

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

**Sundry Notices and Reports on Wells**

1. **Type of Well**  
GAS

2. **Name of Operator**  
ConocoPhillips

3. **Address & Phone No. of Operator**

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

4. **Location of Well, Footage, Sec., T, R, M**  
Sec., T—N, R—W, NMPM

Unit M (SWSW), 1030' FSL & 880' FWL, Sec. 21, T28N, R11W NMPM

5. **Lease Number**  
NM-010063 17

6. **If Indian, All. or  
Tribe Name**

7. **Unit Agreement Name**

8. **Well Name & Number**

9. **API Well No.**  
Lucerne D 1E

10. **Field and Pool**  
30-045-24424

11. **County and State**  
Basin Dakota  
San Juan, NM

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

**Type of Submission:**

☒ Notice of Intent

☐ Subsequent Report

☐ Final Abandonment

**Type of Action:**

☐ Abandonment

☐ Recompletion

☐ Plugging

☐ Casing Repair

☐ Altering Casing

☐ Change of Plans

☐ New Construction

☐ Non-Routine Fracturing

☐ Water Shut-off

☐ Conversion to Injection

☒ Other : BH repair

**13. Describe Proposed or Completed Operations**

Please see the attached procedure & wellbore diagram

RCVD APR 2 '07  
OIL CONS. DIV.  
DIST. 3

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

Signed

Philana Thompson

Title Regulatory Technician

Date 3/29/07

(This space for Federal or State Office use)

APPROVED BY

Original Signed: Stephen Mason

Title

Date

MAR 30 2007

CONDITION OF APPROVAL, if any:

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

NMOC

**Est. AOF Rate:** 100 Mcfd

**Est Reservoir Pressure:** 1,100 psi (DK)

**Special Requirements:** 5,800' of 2-3/8" workstring (to squeeze), air package, 6 drill collars for 4-1/2" casing (shallow drilling depth) & minimum of seven extra joints of 2-3/8" tubing to tag for fill & for possible tubing replacement. Service company to perform possible acid-job, if scale is encountered.

**Operator:** Terry Medford Cell # 505-486-6783

**Operations Supervisor:** Tom Lentz Cell # 505-320-4636

**Notify Operator** (or Supervisor) **prior to** commencing any work, **and after** job is completed.

Contact rig superintendent & production engineer to review procedure 1 week prior to rig up.

Check all anchors prior to moving in rig.

LOTO surface facilities per Safety Policy and Procedures. If a well has a rectifier for cathodic protection, ensure that it is turned off before any work is performed. Notify cathodic protection personnel after job is complete. Record pressures each morning and note in Daily Report.

**PROCEDURE:**

1. Hold pre-job safety meeting. Comply with all NMOCD, BLM & COPC safety & environmental regulations. Test rig anchors prior to moving in rig.
2. MIRU workover rig. Check casing, tubing, and bradenhead pressures & record them in Wellview.
3. RU blow lines from casing valves & begin blowing down casing pressure. Kill well with 2% KCl treated for SRB if necessary. ND wellhead & NU BOPE.
4. PU & release tubing hanger & tag for fill, adding additional 2-3/8" joints as needed. PBTD is at 6,450' KB. Record fill-depth in Wellview.
5. TOOH with production string & BHA (+/- 6,278') as follows: 199-Joints (6,264') 2-3/8" (4.7#) J-55 Tubing, SN(1.0'-1.78" ID) & Notch Collar (0.5'). Stand-back production string.
6. Visually inspect tubing. Record findings in Wellview. If severe scale, etc. is observed on tubing, TIH w/ bit, if necessary. Make note of corrosion or scale. Take sample, if possible, & have analyzed to prepare for subsequent acid-job and / or scale inhibitor program (A packer may be required).

7. RU logging company. RIH & set 4-1/2" CIBP on wireline at +/-5,450'KB.
8. Load casing with 2% KCl water. Pressure-test casing to 500 psig. **If pressure-test fails**, RIH w/ 4-1/2" X 2-3/8" packer on production string to +/-4,950' & re-test. Test casing at 1,000' intervals to surface & isolate leak(s) as needed. Stand-back production string. Note depths of any holes in casing to adjust, as needed, the cement-squeeze casing repair procedures (described below).
9. Run CBL (+/-5,500' KB to surface) to locate TOC from original (11/15/80) cement-job (no record of "post" cement CBL – observed slight sign of cement at the surface during job). Need to evaluate cement-bond & two separate TOC's for deep & shallow cement-squeeze jobs.
10. RIH & perforate squeeze-holes at +/- 4,800' (approximately 10' above TOC as determined from CBL).
11. RIH with cement-retainer on **workstring** & set +/- 4,400'. Establish injection rate, if possible (DV-Tool at 4,455'). If unable to establish injection rate, please call Dave Brewster (599-3420 or 215-4650). Squeeze per Service Company recommendation. WOC. Notify OCD (Steve Hayden at 334-6178 ext. 14) & BLM representative prior to starting cement-squeeze operations. TOOH with workstring & stand-back.
12. RU perforating company. RIH & perforate squeeze-holes at +/- 550' (approximately 10' above TOC as determined from CBL).
13. RIH with cement-packer on workstring & set +/- 500' (depth based on CBL & perforated depth). Establish circulation, if possible (original 4-1/2" cement-job reflected a "sign" of cement at the surface). If unable to establish circulation, please call Dave Brewster (599-3420 or 215-4650). Squeeze per Service Company recommendation. WOC. Notify OCD (Steve Hayden at 334-6178 ext. 14) & BLM representative prior to starting cement-squeeze operations. TOOH with workstring & LD.
14. RIH with bit, collars & production string. Drill-out cement to squeeze-holes (+/-550'). Check for cement stringers below squeeze-holes. Pressure-test squeeze-holes to 500 psig for 30 minutes.
15. Continue to RIH & drill-out cement-retainer (+/-4,400') & cement to squeeze-holes (+/-4,800'). Check for cement stringers below squeeze-holes. Continue to RIH & drill-out CIBP (5,450') & cleanout wellbore to PBTD (6,450'). Cleaning-out to 6,450' will give 63' of rat-hole.
16. TOOH with production string, collars & bit. LD collars & bit. Stand-back production string.
17. RIH with BHA & production string as follows: Notch Collar (0.5'), "F"-Nipple with expendable check (1.0'-1.78" ID), 199-Joints (6,264") 2-3/8" (4.7#) J-55 tubing. Rabbit tubing while TIH according to the attached tubing drift procedure.
18. Tag for fill (PBTD – 6,450'). Circulate wellbore clean as needed.

19. Land tubing +/- 6,278' KB. ND BOPE & NU wellhead. Notify MSO (Terry Medford at 486-6783) that well is ready to be returned to production. Drop ball & pump-out expendable check. Make a swab run or bring well on with air-package, as needed. RDMO.

**Production Engineers:**

Primary Contact:

Dave Brewster

Office Phone: 505-599-3420

Cell Phone: 505-215-4650

Alternate Contact:

Karen Mead

Office Phone: 505-324-5158

Cell Phone: 505-320-3753



# CURRENT SCHEMATIC

## LUCERNE D 001E

District SAN JUAN	Field Name DK	API / UWI 300452442400	County SAN JUAN	State/Province NEW MEXICO	Edit
Original Spud Date 11/14/1980	Surface Legal Location NMPM-28N-11W-21-M	E/W Dist (ft) 880.00	E/W Ref W	N/S Dist (ft) 1,030.00	N/S Ref S

