

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN TR
(Other Instructio
Reverse side)

CATE*
on 10-

LEASE DESIGNATION AND SERIAL NO.
10-029405A

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals.)

1. OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/>	7. UNIT AGREEMENT NAME MCA Unit Bty
2. NAME OF OPERATOR Conoco Inc.	8. FARM OR LEASE NAME
3. ADDRESS OF OPERATOR P.O. Box 460 - Hobbs, NM 88240	9. WELL NO. 253
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements. See also space 17 below.) At surface 1980' FNL + 460' FWL Unit E	10. FIELD AND POOL, OR WILDCAT Malcamor G-SA
14. PERMIT NO. 30-02508052	11. SEC., TWP., M., OR BLK. AND SURVEY OR AREA 20-175-32E
15. ELEVATIONS (Show whether DF, RT, GR, etc.) 3955'	12. COUNTY OR PARISH Lea
	13. STATE NM

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF

PULL OR ALTER CASING

FRACTURE TREAT

MULTIPLE COMPLETION

SHOOT OR ACIDIZE

ABANDON*

REPAIR WELL

CHANGE PLANS

(Other)

CO₂ Huff-n-Puff

SUBSEQUENT REPORT OF:

WATER SHUT-OFF

REPAIRING WELL

FRACTURE TREATMENT

ALTERING CASING

SHOOTING OR ACIDIZING

ABANDONMENT*

(Other)

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

We propose to initiate a cyclic CO₂ huff-n-puff test, in the S.A. 9th Massive zone, according to the attached procedure.

RECEIVED
MAY 21 8 40 AM '90
CARTER COUNTY
AREA OFFICE

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

SIGNED

[Signature]

HA Ingram

TITLE

Conservation Coordinator

DATE

May 17, 1990

(This space for Federal or State office use)

Orig. Signed by Adam Salas

APPROVED BY

CONDITIONS OF APPROVAL, IF ANY:

TITLE

PETROLEUM ENGINEER

DATE

5-29-90

Subject to
Like Approval
by State

*See Instructions on Reverse Side

RECEIVED

MAY 30 1990

OCN
HOBBS OFFICE

MCA No. 253
CO₂ Huff-n-Puff
AFE No.40-61-5870

It is recommended to perform a CO₂ huff-n-puff stimulation as follows:

1. Test casing to 500 psi.
2. Drill out cast iron bridge plug at 3909'.
3. Acidize the lower 9th Massive zone.
4. Return to production through old 1C production header.
5. Lay CO₂ injection line.
6. Inject CO₂.
7. Return to production.

Location:

1980' FNL and 460' FWL, Section 20, T-17S, R-32E, Lea County, New Mexico

Elevation: 3955'

Zero = 13' (AGL)

Well Data:

TD: 5350'

PBTD: 3909'

Casing:

7-5/8" 747' with 315 sacks (circulated)

4-1/2" J-55 9.5 lb/ft at 5350' with 350 sacks (TOC at 2075' Temp. Survey)

Dimensions and Strengths:

<u>OD</u>	<u>Grade</u>	<u>Wt</u> <u>lb/ft</u>	<u>ID</u>	<u>Drift</u>	<u>70% Collapse</u> <u>psi</u>	<u>70% Burst</u> <u>psi</u>
4-1/2"	J-55	9.5	4.090	3.965	2300	3000

Perforations:

San Andres L-9th Massive	4003'-23'	2 JSPF
	4034'-49'	2 JSPF

Miscellaneous:

Cast iron bridge plug at 4120' capped with 1 sack cement.
Permanent Guiberson Charger bridge plug at 3909'.

Recommended Procedure:

1. Move in rig up. Check and release any pressure. Nipple up blowout preventer. Pull out of hole with tubing sub. Test casing to 500 psi. Change wellhead equipment as needed.
2. Run in hole with 2-3/8" workstring and 3-7/8" bit. Drill out Guiberson Charger cast iron bridge plug at 3909'. Trip bit to bottom at 4120'. Pull out of hole.
3. Run in hole with 2-3/8" tubing and 4-1/2" packer with 1.71" profile nipple and on/off tool.
4. Prepare to acidize.
 - A. Set packer at $\pm 3850'$. Load backside to 500 psi.
 - B. Establish injection rate down tubing with produced water. Do not exceed 2200 psi.
 - C. Acidize the San Andres Lower 9th Massive zone with 60 bbls of 15% HCl-NE-FE. Try to establish rate at 3-5 BPM. Do not exceed 2200 psi.
 - D. Record ISIP, 15 minute shut-in and 2 hour shut-in. Flow back load.
5. Flow well through old flowline at the 1C production header in order to establish base line oil production data.
6. Lay 3-1/2" flowline from the 2A header to the No. 253.
7. Inject CO₂ at approximately 1 MMSCFPD. Do not exceed 2000 psi tubing pressure. After injecting 26.5 MMSCF of CO₂, shut-in well for 1 month to allow the CO₂ to soak.
8. Return well to flowing production. A choke may be required to minimize CO₂ breakout. If only CO₂ is produced initially, the well will be shut-in and the soak period extended.
9. Test the well, at the minimum, once a week.
10. Repeat steps 7 through 9 with the second CO₂ slug using 47 MMSCF of CO₂.

Barn Schneider
Engineer

5-10-90
Date

John F. Stalder
Project Director

5-10-90
Date

Division Engineering Manager

Date

Production Superintendent
BDS/tk

Date