

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIPLICATE  
(Other instructions  
verse side)

Form approved.  
Budget Bureau No. 1004-0135  
Expires August 31, 1985

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 type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input checked="" type="checkbox"/> Injection	7. UNIT AGREEMENT NAME MCA
2. NAME OF OPERATOR Conoco Inc.	8. FARM OR LEASE NAME
3. ADDRESS OF OPERATOR 10 Dosta Drive West Midland Tx 79705	9. WELL NO. #246
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface Unit P - 660' FSL & 660' FEL	10. FIELD AND POOL, OR WILDCAT Mallamar (G-SA)
14. PERMIT NO. 30-025 -	11. SEC., T., R., N., OR BLK. AND SURVEY OR AREA Sec. 17-17S-32E
15. ELEVATIONS (Show whether DF, RT, GR, etc.) 4048' GL	12. COUNTY OR PARISH 20a
	13. STATE NM

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

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF

FRACTURE TREAT

SHOOT OR ACIDIZE

REPAIR WELL

(Other)

PULL OR ALTER CASING

MULTIPLE COMPLETE

ABANDON\*

CHANGE PLANS

SUBSEQUENT REPORT OF:

WATER SHUT-OFF

FRACTURE TREATMENT

SHOOTING OR ACIDIZING

(Other)

REPAIRING WELL

ALTERING CASING

ABANDONMENT\*

(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 P&A this well according to the attached procedures.

RECEIVED  
JUL 20 11 22 AM '90  
CAR  
AREA  
HOURS

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

SIGNED

TITLE

DATE

(This space for Federal or State office use)

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

\*See Instructions on Reverse Side

RECEIVED

MCA UNIT NO. 246  
PLUG AND ABANDON

Summary: The following procedure is recommended to permanently  
Aug 8 8 44 AM '90 plug and abandon MCA Unit No. 246.

CAR.  
ARE.

1. Retrieve RBP at 3579'.
2. Set cement retainer @ 3570' and pump 127 sacks of cement into open hole.
3. Spot 17 sack cement plug on top of retainer.
4. Spot 18 sack cement plug across base of salt.
5. Perforate at 880' and spot 55 sack cement plug across top of salt and surface casing shoe.
6. Perforate at 145' and circulate 50 sacks of cement to set surface plug.

Location: 660' FSL & 660' FEL, Unit P, Sec. 17, T-17S, R-32E  
Lea County, NM

Elevation: 4048' GL (4' AGL)

Completion: Grayburg-San Andres  
TD: 5462' PBTD: 4210'  
Perfs: 4102'-4135'

Casing/Tubing Specifications:

O.D. (in)	Weight (lbs/ft)	Grade	Depth (ft)	Drift (in)	Collapse (psi)	Burst (psi)	Capacity (bbl/ft)	Capacity (ft <sup>3</sup> /ft)
8-5/8"	28.0	H-40	830	7.892	1,640	2,470	.0624	.3506
7"	20.0	H-40	3628	6.381	1,980	2,720	.0405	.2273
2-7/8"	6.5	N-80		2.347	11,160	10,570	.00579	.03250

8-5/8" casing set @ 830' with 50 sx cement circulated to surface.

7" casing set @ 3628' with 100 sx cement.

Use safety factor of 70% for collapse and burst pressures.

Assume 2-7/8" workstring will be used.

- Notes:
1. All cement slurry used in this procedure shall be Class "C" neat mixed @ 14.8 ppg.
  2. All mud shall be 9.5 ppg with 25 lbs gel/bbl brine.
  3. Notify BLM and NMOCD prior to commencing any work.

Recommended Procedure:

1. Prepare well for P&A:
  - A. MIRU. Bleed well pressure down. Kill well with 9.5 ppg mud if needed.
  - B. ND wellhead and NU BOP.
  - C. PU and TIH w/retrieving head and WS. Retrieve RBP @ 3579'. POOH.

2. Set cement retainer and abandon open hole:
  - A. GIH with 7" cement retainer and WS. Set cement retainer @ 3570'.
  - B. MIRU cement services. Pump 127 sacks cement through retainer. Maximum surface pressure is 1000 psi.
  - C. Sting out of cement retainer and spot 17 sacks cement from 3480'-3570' and displace with 20 bbls mud.
  - D. PU to 3475' and circulate hole with 120 bbls mud.
  - E. POOH laying down WS to 2000'.
3. Spot cement plug across base of salt:
  - A. Load hole with mud.
  - B. Spot 18 sacks cement from 1895'-2000' and displace with 11 bbls mud.
  - C. POOH with WS.
4. Spot cement plug across top of salt and surface casing shoe:
  - A. MIRU wireline services.
  - B. RIH with a 4" casing gun loaded 4 JSPF (120° phase, .4" EHD, centralized and CCL.
  - C. Perforate 7" production casing @ 880'. POOH.
  - D. GIH with WS to 1035'. Close BOP. Pump 15 bbls mud to load hole and establish circulation up 8-5/8" x 7" annulus.
  - E. Pump 55 sacks of cement and displace with 4 bbls mud to spot plug from 780'-1035' inside and outside 7" casing.
  - F. POOH with WS. WOC. GIH with WS and tag top of cement.
  - G. POOH laying down WS.
5. Circulate cement up surface casing and set surface plug:
  - A. RIH with a 4" casing gun loaded 4 JSPF and CCL.
  - B. Perforate 7" production casing @ 145'. POOH.
  - C. GIH w/1 joint 2-7/8" tubing. Close BOP. Pump 5 bbls mud to load hole and establish circulation up 8-5/8" x 7" annulus.
  - D. Pump 50 sacks of cement (16 sacks excess) to fill up 8-5/8" x 7" annulus and set surface plug in 7" casing.

Note: If cement does not circulate to surface, pump 25 sacks down 8-5/8" X 7" annulus.

  - E. POOH with tubing.
  - F. RD wireline and cement services.
6. Prepare surface location for abandonment:
  - A. ND BOP and cut off all casing strings at the base of the cellar or 3' below the final restored ground level (whichever is deeper). RDMO pulling unit.
  - B. Fill the casing strings (if necessary) from the cement plug to surface with cement.
  - C. Cover the wellbore with a metal plate at least 1/4" thick, welded in place, or a cement cap extending radially at least 12" beyond the 8-5/8" casing and at least 4" thick.

D. Erect an abandonment marker according to the following specifications:

1. Marker must be at least 4" diameter pipe, 10' long with 4' above restored ground level, and embedded in cement.
2. Marker must be capped and inscribed with the following well information:

MCA Unit No. 246  
Unit P, Sec. 17, T-17S, R-32E  
Lea County, NM  
Date

Note: 1/4" metal plate can be welded to marker and then to the casing after the marker is set in cement.

- E. Cut off dead-man anchors below ground level and remove markers. Fill in cellar and workover pit.  
F. Remove all equipment, concrete bases, and pipe not in use.  
G. Clean and restore location to its natural state. Reseed according to BLM requirements.

7. Send a copy of the well service report to ~~Kandy Lawson~~ <sup>CANDY FRAUSTO</sup> in the ~~Hobbs~~ <sup>MIDLAND</sup> Office so the proper forms can be filed.

Approved:

*Ted Buchanan*  
Production Specialist

5-23-90  
Date

*Henry Davis*  
Engineer

5-26-90  
Date

*H. F. Riegm*  
Supervising Production Engineer

6/13/90  
Date

*H. F. Riegm*  
Division Engineering Manager

7/2/90  
Date

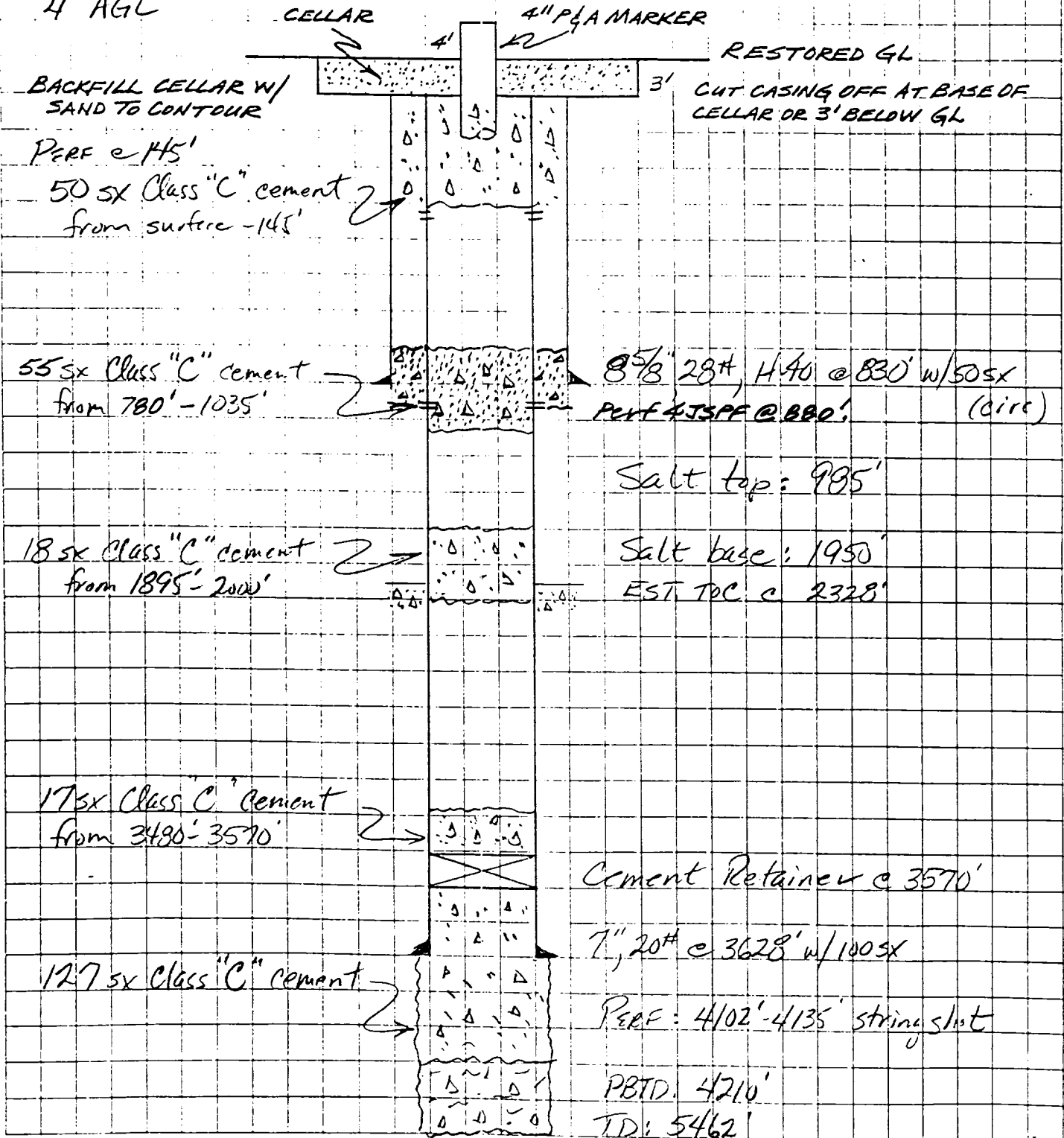
*Frank Patton*  
Production Superintendent

7/3/90  
Date

MCA Unit No. 246

\* PROPOSED P&A \*

660' FSL & 660' FEL  
Unit P, Sec. 17, T-17S, R-32E  
Elevation: 4048'  
4' AGL



Conoco Inc.  
Calculation Sheet

Made By  
Checked By  
Date  
Page of

Title

Job No.

Field

State