Form 3160-5
(June 1990)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
Budget Bureau No. 1004-0135
Expires: March 31, 1993

SUNDRY NOTICES AND REPORTS ON WELLS

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

5. Lease Designation and Serial No.
LC 029410A

6. If Indian, Allottee or Tribe Name

SUBMIT IN TRIPLICATE

7. If Unit or CA, Agreement Designation

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

8. Well Name and No. Btry 2
MCA Unit No. 156

2. Name of Operator
Conoco, Inc.

9. API Well No.
3002512756 ✓

3. Address and Telephone No.
10 Desta Dr. Ste 100W, Midland, TX 79705

10. Field and Pool, or Exploratory Area
Maljamar Grayburg-SA

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
2580' FNL & 2595' FWL Unit F
Sec. 29, T-17S, R-32E

11. County or Parish, State
Lea, NM

12. CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION	
☒ Notice of Intent	☒ Abandonment	☐ Change of Plans
☐ Subsequent Report	☐ Recompletion	☐ New Construction
☐ Final Abandonment Notice	☐ Plugging Back	☐ Non-Routine Fracturing
	☐ Casing Repair	☐ Water Shut-Off
	☐ Altering Casing	☐ Conversion to Injection
	☐ Other _____	☐ Dispose Water

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

13. 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.)*

It is proposed to plug and abandon this well according to the attached procedure.

Please note the inclusion of 3 distinct wellbore diagrams in this plan.

DIAGRAM 1 -- Existing Wellbore
DIAGRAM 2 -- Proposed Wellbore IF FISH IS SUCCESSFULLY RETRIEVED
DIAGRAM 3 -- Proposed Wellbore IF FISH IS NOT RETRIEVED

RECEIVED
MAR 11 10 52 AM '93
070 FARMINGTON, NM

14. I hereby certify that the foregoing is true and correct
Signed Jerry W. Hoover Title Sr. Conservation Coordinator Date 3/10/93

(This space for Federal or State office use)
Approved by (ORIG. SGD.) DAVID R. GLASS Title PETROLEUM ENGINEER Date MAR 19 1993
Conditions of approval, if any:
SEE ATTACHED

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.

*See Instruction on Reverse Side

MCA Unit No. 156
Recommendation to Plug and Abandon

Well Data:

Location: 2580' FNL & 2595' FWL, Section 29, T-17S, R-32E, Lea County, NM

TD: 4136' GLE: 3924' Salt Top: 985'

PBTD: 4136' MD: 10' AGL Salt Base: 2225'

API No. 30-025-12756

Production: TSI

Tubular Data:

OD (in.)	Wt. (ppf)	Grade	Top of Cement	Drift ID (in.)	Interval (ft.)	Collapse @80% (psi)	Burst @80% (psi)	Capacity (bbl/ft)
10-3/4"	40	?	Circ	--	0-59	--	--	--
8-5/8"	24?	?	Circ	--	0-939	--	--	--
7"	20	K-55?	2000'	6.331	0-3698	1816	2992	.0404
5-1/2"	15.5	K-55	Circ	4.825	3369-4136	3232	3848	.0238
2-7/8"	6.5	J-55		2.347	--	6144	5808	.0058

Annular Volumes:

	bpf	gpf
2-7/8" tubing x 5-1/2", 15.5# casing	.0158	0.6625
2-7/8" tubing x 7", 20# casing	.0325	1.3633

Perforations:

GB 6th: 3776-3810', 3818-3834' w/2 JSPF
SA U 7th: 3878', 3889', 3898', 3900', 3904', 3912', 3918', 3924' w/2 JSPF
SA L 7th: 3942', 3946', 3959', 3969', 3978', 3985', 3994' w/2 JSPF
SA U 9th: 4048-4096' w/1 JSPF

Shot Sections:

GB 6th: 3808-3828' Greater than 28" hole
SA U7th: 3875-3921' 20" hole

Fluid Specifications:

Cement: Class "C" neat with 2% $CaCl_2$
Yield 1.32 CF/sk
Mix weight 14.8 ppg
Water requirement 6.3 gal/sk

Mud: Salt gel mud consisting of 10 ppg brine with 25 pounds of gel per barrel.

MCA No. 156
Recommendation to Plug and Abandon

A. **Wellbore Preparation**

1. MIRU. POOH with any production equipment. Install BOP.

B. **Attempt to Fish Junk**

1. RIH with lead impression block.
2. Swedge out casing if necessary.
3. Attempt to fish tubing and rods using overshot.
4. Trip for washover pipe if needed. Attempt to recover fish.

C. **Plug and Abandonment**

1. RIH with 4" hollow carrier casing gun and shoot 2 JSPF @ ± 500'. Note that 8-5/8" casing is set across this interval.
2. a) If successful fishing junk, RIH with open ended workstring to PBTD @ 4136'. Spot a cement plug from PBTD to ± 3676' (100' above top perf). Volume is 47 sx.
   b) If unsuccessful fishing junk, RIH with retainer and set @ ± 3750'. Pump 100 sx Class "C" neat cement with 2% $CaCl_2$. Sting out of retainer. Spot 25 sx cement on top of retainer, the minimum as required by the BLM. Top of cement plug should be @ ± 3503'.
3. Circulate hole with salt gel mud. Capacity of hole from 3676' to surface is 87.5 barrels from 3503' to surface is 83.4 barrels.
4. Tag cement plug @ 3676' (or 3503') to verify top.
5. Pull up to ± 3470'. Spot 27 sx cement from ± 3470' up to ± 3270'. Minimum plug size is 25 sx. These volumes are calculated to give ± 100' above and below the 5-1/2" liner top.
6. Tag cement plug to verify top.
7. Pull up to ± 2400'. Spot a cement plug inside the 7" production casing up to ± 800' using 276 sx. This plug is to help protect the casing from the salt section.
8. Trip for packer. Set packer @ ± 400'. Establish pump rate using fresh water or mud.
9. Trip for retainer. Set retainer @ ± 400'. Attempt to circulate cement by pumping 50 sx of Class "C" neat with 2% $CaCl_2$.
10. Sting out of retainer and spot 25 sx of cement on top of retainer; top of cement estimated @ 255'.

11. a) If cement was circulated, spot a cement plug using 25 sx from ± 150' up to 3' for the surface cap.

    b) If cement was not circulated,
       1) perforate the 7" casing @ ± 150'.
       2) pump 15 sx of cement and attempt to circulate.
       3) spot a cement plug from ± 150' up to 3' using 25 sx cement for the surface cap.

12. Cut off casing 3' below final restored ground level. Cap wellbore with a metal plate (minimum thickness 1/4") and weld in place.

13. Install abandonment marker. The marker must be at least 4" pipe and 10' long with 4' above ground and embedded in cement. The marker should be as close to the wellbore as possible and must have the well indentity and location permanently inscribed.

Mark E Kratzer 7/24/93

Mark E. Kratzer
Production Engineer

DIAGRAM 1

MCA 156

Existing Wellbore Diagram

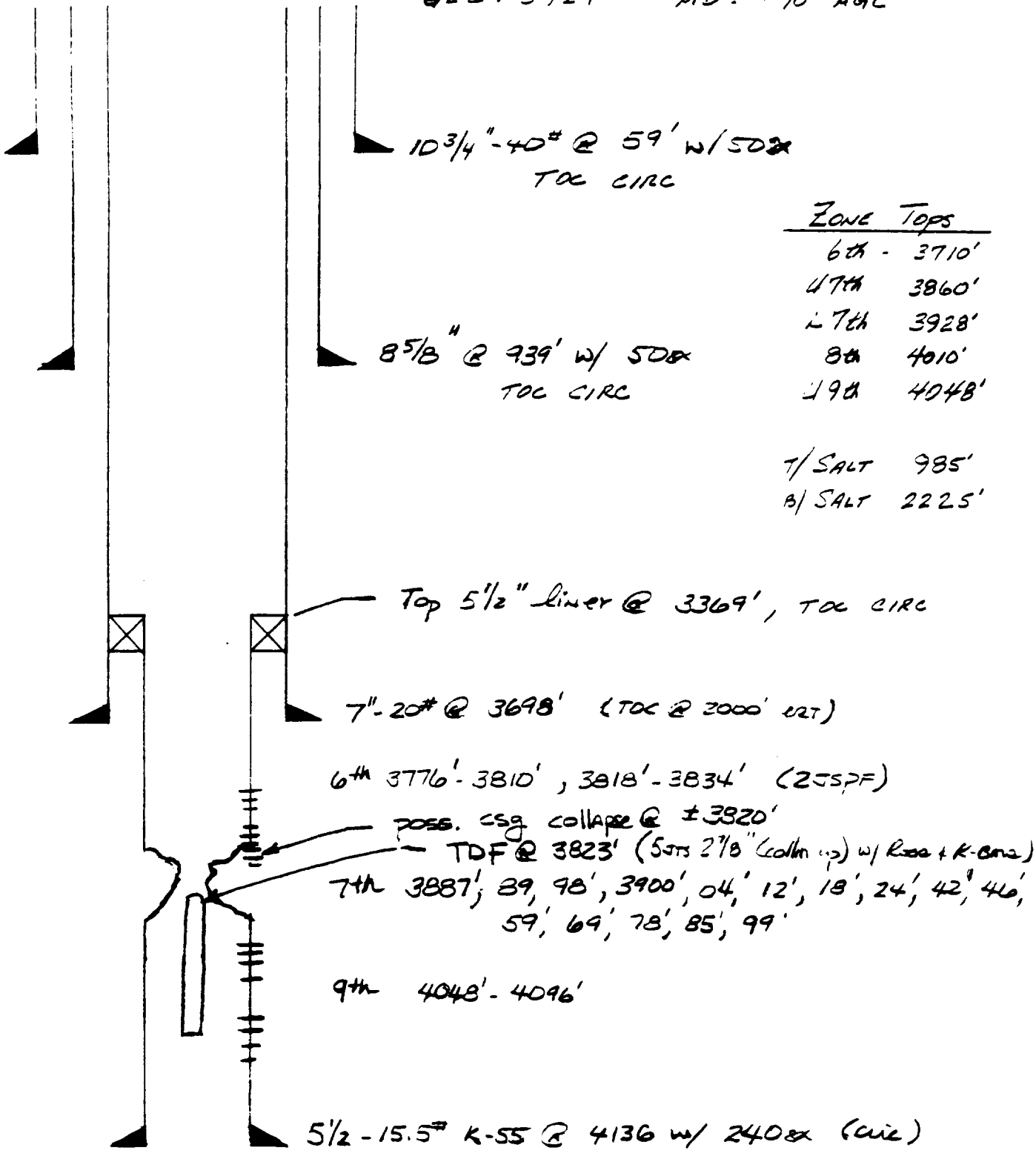

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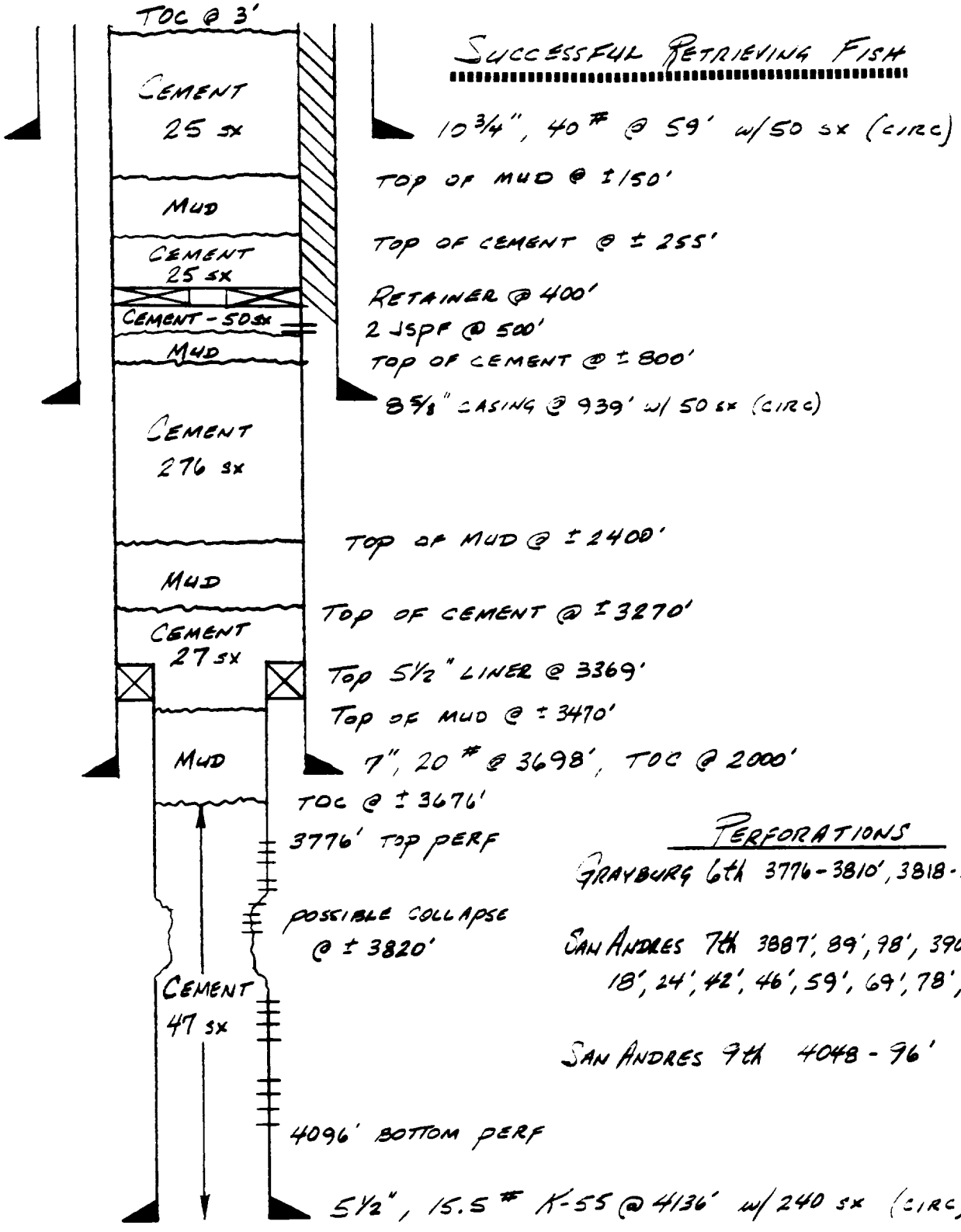
DIAGRAM 2

PROPOSED WELLBORE DIAGRAM
MCA UNIT NO. 156



PERFORATIONS

GRAYBURG 6th 3776-3810', 3818-34' w/ 2 JSPF

SAN ANDRES 7th 3887', 89', 98', 3900', 04', 12'
18', 24', 42', 46', 59', 69', 78', 85', 99'

SAN ANDRES 9th 4048-96'

M. E. KRATZER

FEB 22, 1993

MCA UNIT NO. 156

BAISH-MALJAMAR-PEARSALL
NM

DIAGRAM 3

PROPOSED WELLBORE DIAGRAM
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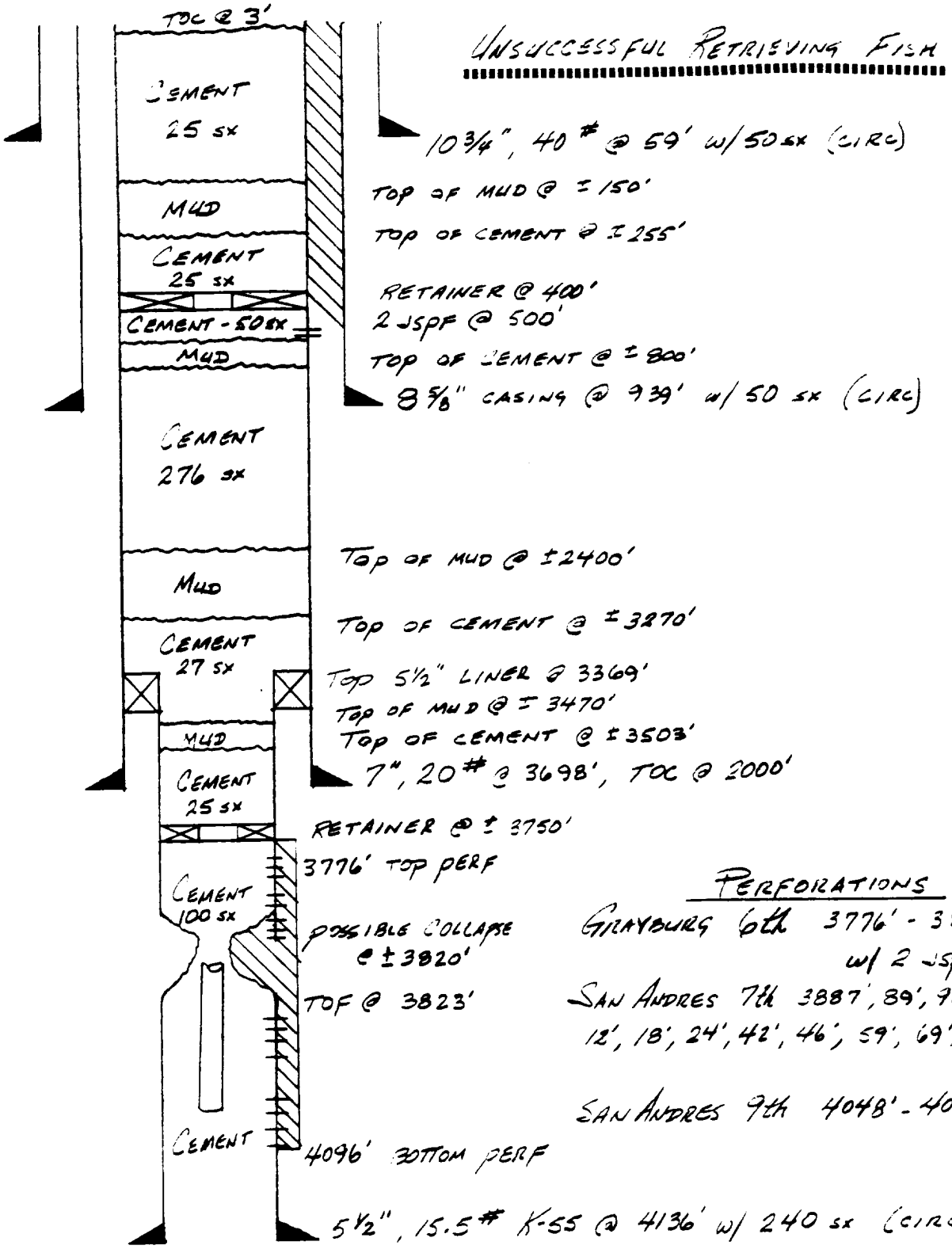

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GRAYBURG 6th 3776' - 3810', 3818' - 34' W/ 2 JSPF

SAN ANDRES 7th 3887', 89', 98', 3900', 04', 12', 18', 24', 42', 46', 59', 69', 78', 85', 99'

SAN ANDRES 9th 4048' - 4096'

M. E. KRATZER

FEB 19, 1993

MCA UNIT NO. 156

BAISH - MALJAMAR - PEARSALL NM