Form 3160-5
(June 1990)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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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 029405B
6. If Indian, Allottee or Tribe Name N.M.

SUBMIT IN TRIPLICATE

7. If Unit or CA, Agreement Designation

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

8. Well Name and No.
Mitchell A #19

2. Name of Operator
Conoco, Inc.

9. API Well No.

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)
1980' FNL, 2180' FEL
Sec. 19, 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 the Mitchell A #19 as follows:
1. Clean out well to cement retainer set @ 3574'.
2. Pump 145 sx cmt below retainer & dump 25 sxs on top of retainer.
3. Perf 4-1/2" liner @ 3000'.
4. Squeeze 275 sxs of cmt below retainer & dump 25 sx on top of retainer.
5. Spot an 80-sx cmt plug in the 4-1/2" csg @ 740-1750' across salt section.
6. Perf 4-1/2" liner @ 700'. Follow w/225 sx cmt to form a plug from surf to 750' (circ cmt).

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

Signed Jerry McHaney Title Sr. Conservation Coordinator Date 03-24-92

(This space for Federal or State office use)

Approved by David R. Glass Title _____ Date 3-27-92

Conditions of approval, if any:

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 No. 272
(Formerly Mitchell A-19 Well)
Plug and Abandon

OBJECTIVE: The following procedure is recommended to permanently plug and abandon the MCA No. 272 well.

1. Pump 10# brine in well to kill well.

2. Run in hole with bit and workstring to cement retainer at 3574'. Pull out of hole.

3. Run in hole with stinger and establish injection below cement retainer at 3574'. Pump 145 sacks of cement below retainer and dump 25 sacks on top of retainer. Prepare to drill out cement retainer at 3574' if injection cannot be established. A new cement retainer will then be set at 3570' and the above volume of cement pumped.

4. Perforate the 4-1/2" casing at 3000', set a cement retainer at 2950' and squeeze 275 sacks of cement below retainer to fill 4-1/2" x 6-3/4" openhole annulus up to the base of the salt at 1650'. Dump 25 sacks on top of retainer.

5. Spot a cement plug from 740'-1750' in the 4-1/2" casing to form a plug across the salt section from 840'-1650' with a 100' overlap on both the top and the base of the salt section. (80 sacks)

6. Perforate the 4-1/2" casing at 700' and squeeze 165 sacks of cement to fill 4-1/2" x 8-5/8" annulus. Spot surface plug in the 4-1/2" casing from 700' to surface (65 sacks).

7. Install a 4" P&A marker. Clean and re-seed location.

WELL DATA

TD: 5362' **PBTD:** 3574'

Elevation: 3948'(GL) **Zero:** 12' (AGL)

LOCATION

1980' FNL, 2180' FEL, Sec. 19, T-17-S, R-32-E, Lea County, New Mexico

CASING

13-3/8" 36# set at 86' with 75 sacks
8-5/8" 24# set at 2490' with 300 sacks of cement with 100 sacks pumped through DV tool at 786'
4-1/2" 9.5# set at 5356' with 360 sacks of cement (TOC at 3280' from CBL) good cement top at 3520'.

NOTE: **The 8-5/8" casing is parted at 2375', 2462', and 2465'.**

PRODUCTION EQUIPMENT

None

TUBULAR SPECIFICATIONS

SIZE (IN)	WT. (#/FT)	GRADE (API)	ID (IN)	DRIFT (IN)	80% BURST (PSIG)	80% COLLAPSE (PSIG)	80% YIELD (MLBS)	CAPACITY
4-1/2	9.5	J-55	4.090	3.965	3504	2648	82	.0168
*2-3/8	4.7	N-80	1.995	1.901	8960	9424	83	.0039

*** Workstring to be used.**

ZONE TOPS

Grayburg 6th	-	3558'
San Andres 7th	-	3720'
San Andres 8th	-	3852'
San Andres 9th	-	3907'
Glorieta	-	5206'
Paddock	-	5284'

CURRENT PERFORATIONS

3617'-3633' (Below cement retainer at 3574')
3665'-4043' (Squeezed w/200 sacks cement and drilled out below cement retainer at 3574')
5274'-5280', 5294'-5303' (squeezed with 50 sacks of cement below a CIBP at 4215')
5321'-5327' (Below a cement retainer at 3508')

SAFETY:

This procedure includes cementing and perforating. A pre-job safety meeting involving all personnel on location should be held before any work commences. Conoco policies and the service company's safety procedures should be reviewed. Arrange for a pre-determined safety assembly area in case of an emergency. No unauthorized personnel are allowed on location.

The following checklist is recommended during cementing operations:

1. All pump and storage trucks should rig up outside dead man anchors and guy wires if possible.
2. All connections on the wellhead must have a pressure rating higher than the maximum anticipated pump pressure.
3. Data recording equipment should be located as far as practical from the discharge line.
4. Anchor all lines and pressure test as necessary. Purge all lines and test only with water.
5. A service company and/or company employee must be designated to operate valves at the wellhead in case of an emergency.
6. All service and company personnel must keep a safe distance from pressured-up lines. No one should be in the derrick or on the rig floor while pumping cement.

The following checklist is recommended during perforating operations:

1. The perforating company must abide by the Conoco perforating safety guidelines.
2. The perforating truck should rig up outside the dead man anchors and guy wires and be positioned upwind of the wellhead if possible.
3. The perforating company must place warning signs at least 500' away from the operation on all incoming roads.
4. Welding on location is not permitted during perforating operations.
5. Perforating must be suspended during electrical or sand storms.

6. Turn off all radios and horn blowers that are within 500' of the operation. They should not be used while rigging up and loading perforating guns or until the gun is at least 500' in the hole. The same process should be repeated when pulling out of the hole.

7. The perforating truck must be grounded to the rig and wellhead before installing the blasting cap(s).

8. Make sure that the key to the perforating panel is removed from the panel and the generator on the truck is turned off while arming the gun.

9. No one is allowed in the derrick or on the rig floor while perforating.

10. Upon completion of the operation, the work area shall be thoroughly inspected and all scraps and explosive materials shall be properly removed from the location by the service company performing the operation.

RECOMMENDED PROCEDURE

NOTE: **a. All cement slurries used in this procedure shall be Class "C" neat mixed at 14.8 ppg.**
b. All mud shall be 10 ppg with 25 lbs gel/bbl of brine.

A. MOVE IN RIG-UP, KILL WELL, ESTABLISH CIRCULATION & SQUEEZE

1. Move in steel tanks for containment of well fluids. Pump 10# brine in well to kill well. Check well for pressure and rig up workover rig.

   NOTE: **Recent reports indicate that the well had 40 psig pressure.**

2. Install BOP and test. Pick up 3-7/8" bit and 2-3/8" (N-80 minimum) workstring and clean out well to cement retainer at 3574'. Pull out of hole.

   NOTE: **Well may have holes and/or collapsed casing above cement retainer since well had pressure.**

3. Run in hole with stinger and 2-3/8" workstring and sting into retainer at 3574' and attempt to establish injection. Pump 145 sacks of cement below retainer and dump 25 sacks on top of retainer.

   NOTE: **a. Records indicate that retainer is a 4-1/2" Guiberson cement retainer set at 3574' on 8/26/75. No other information is available from office records.**
   b. Prepare to drill out cement retainer at 3574' if injection cannot be established. A new retainer will be set at 3570' and the above volume of cement pumped.
   c. A Noise log run (2/21/78) indicates that fluid is moving from the San Andres formation behind the 4-1/2" casing, to the base of the salt at 1650' and upward to 100'-300'. The San Andres must be squeezed off properly to eliminate this from continuing.

B. PERFORATE 4-1/2" LINER AND SQUEEZE 4-1/2" x 6-3/4" OPEN HOLE ANNULUS

1. Run in hole with electric line and a 3-1/8", 90° phasing, squeeze gun and perforate the 4-1/2" at 3000' with at least two 0.50" holes. Pull out of hole with electric line and rig down.

2. Run in hole with 4-1/2" packer to establish circulation. Once circulation is established, pull packer and set a cement retainer at 2950'. Squeeze 275 sacks of cement below retainer and dump 25 sacks on top of retainer.

   NOTE: **a. This volume of cement will fill 4-1/2" x 6-3/4" open hole annulus from 3000' to 1650' (base of salt section). CBL run (4/17/72) indicates top of cement is at 3280'.**

   b. Move up hole in 200' increments and reperforate if injection cannot be established through packer. Set retainer accordingly.

   c. Do not attempt to cement across salt section. Attempts in the past have proven unsuccessful.

C. SPOT CEMENT PLUG ACROSS SALT SECTION, PERFORATE SQUEEZE HOLES IN 4-1/2" AND CIRCULATE CEMENT TO SURFACE

1. Run in hole with workstring and tag top of cement plug to verify depth. Pick up workstring and circulate hole with 10 ppg mud. Spot an 80-sack cement plug in the 4-1/2" casing from 740'-1750' across the salt section, which includes a 100' overlap on both the top and bottom of salt section. POOH with workstring.

2. Run in hole with electric line and 3-1/8", 90° phasing, squeeze gun and perforate the 4-1/2" casing at 700' with at least two 0.50" holes. Pull out of hole with electric line an rig down.

3. Establish an injection rate with fresh water by bullheading down the 4-1/2" casing taking returns on the 4-1/2" x 8-5/8" annulus. Follow with 225 sacks of Class "C" neat cement to form a plug from surface to 750' and to circulate cement in the 4-1/2" x 8-5/8" annulus. WOC overnight.

D. PREPARE SURFACE LOCATION FOR ABANDONMENT

1. Remove BOP and cut off all casing strings 3' below final restored ground level. Rig down and move off workover rig.

2. Fill casing strings with cement, if necessary.

3. Cover the wellbore with a 1/4" metal plate welded in place , or a cement cap extending radially at least 12" beyond the 13-3/8" casing and at least 4" thick.

4. Erect an abandonment marker according to the following specifications.

   a. Marker must be at least 4" in diameter, 10' long with 4' above the restored ground level and embedded in cement.

b. Marker must be capped and inscribed with the following well information.

MCA No. 272
Sec. 19, T-17-S, R-32-E
Lea County, NM
Date

c. Cut off dead-man anchors below ground level and remove markers. Fill in cellar with sand and contour to surrounding ground level.

d. Remove all equipment, concrete bases and piping not in use.

e. Clean and restore location to its natural state. and reseed.

f. Send a copy of the well service report to the Midland Office so proper forms can be filed.

Henry David 2-19-92
H. E. David
Senior Production Engineer

:lpb\HED\052

[redacted]

APPROVED

H. F. Raegner
Supervising Staff Engineer

H. F. Raegner
for Division Engineering Manager 2/27/92

Production Superintendent

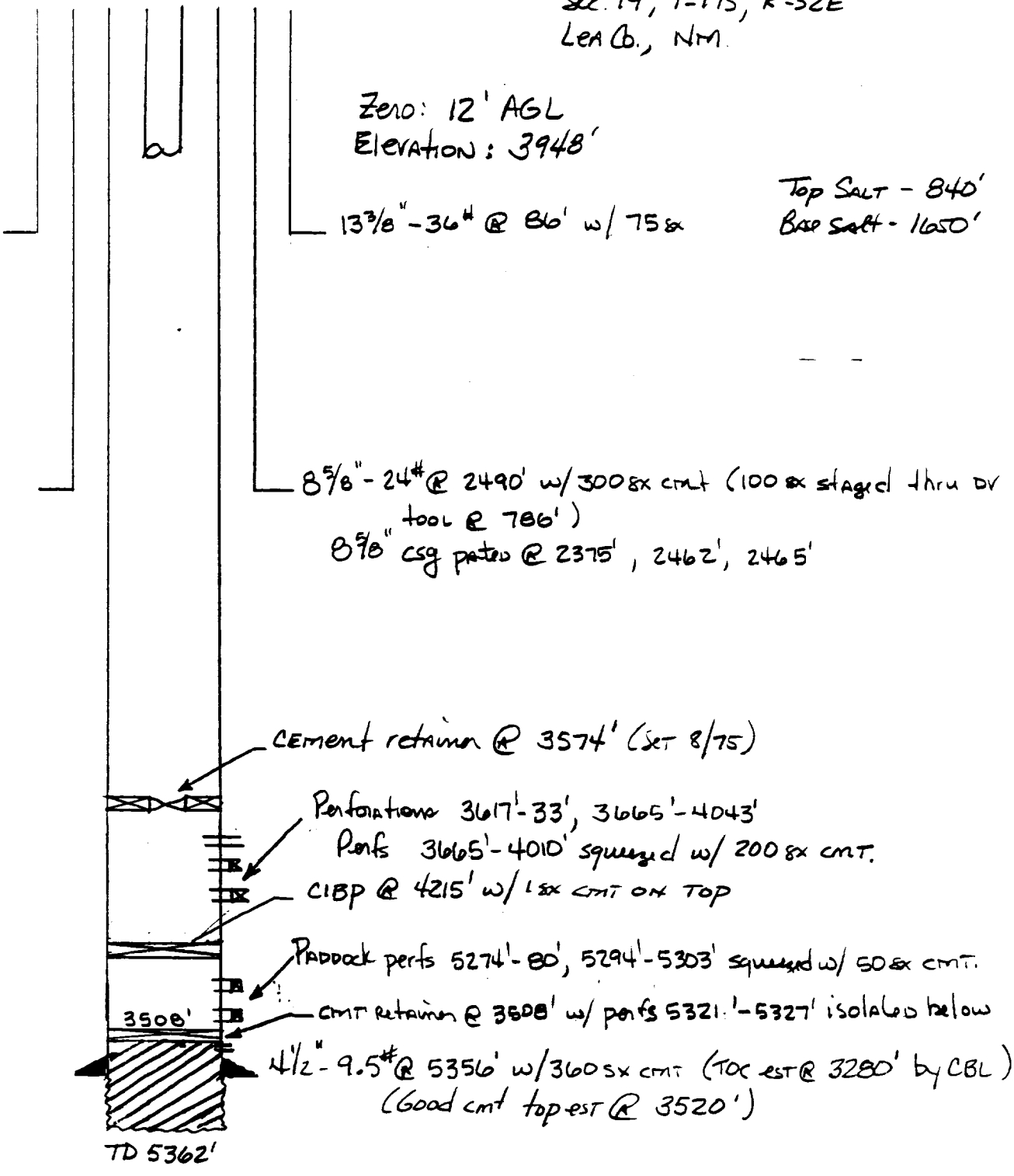
cc: FEP, MEK, HED, Donnie Rogers (Maljamar - 2), FILE

MCA 272
(MITCHEL A-19)

1980' FNL, 2180' FEL
Sec. 19, T-17S, R-32E
LEA Co., NM

ZERO: 12' AGL
ELEVATION: 3948'

TOP SALT - 840'
BASE SALT - 1650'



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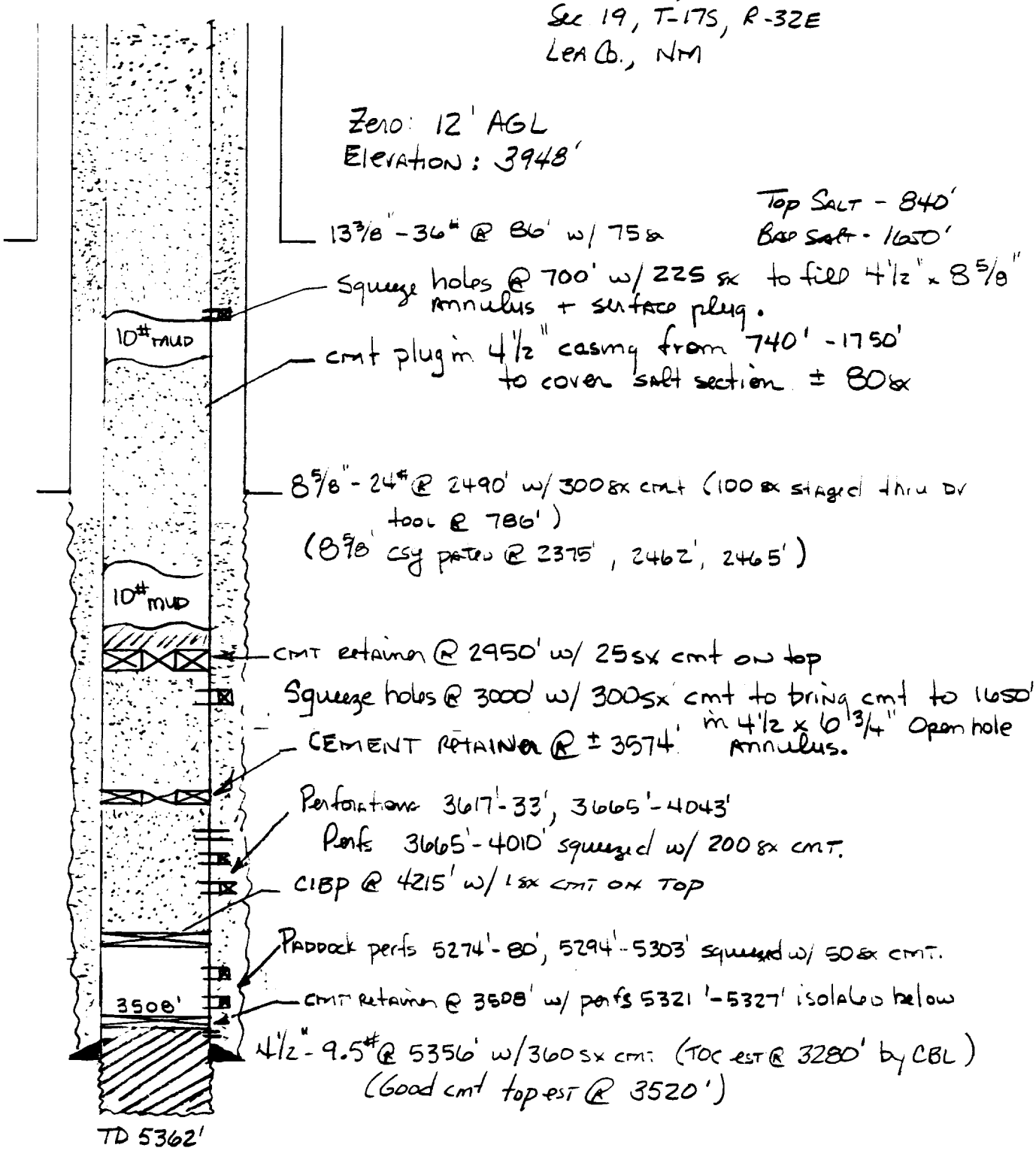
2-14-92

MCA 272
PRESENT WELLBORE

MCA 272
(MITCHEL A-19)

1980' FNL, 2180' FEL
Sec 19, T-17S, R-32E
LEA Co., NM



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2-14-92

MCA 272
Proposed Well Bore