

FROM:

~~B & A OPERATING CO.~~

P. O. BOX 136
LOVINGTON, N. M. 88260

☐ URGENT PLEASE REPLY

☐ REPLY NOT NEEDED

DATE 9/ 29/ 78

TO:

New Mexico Oil Conserv. Comm.
Attn: Bill Gressett.
P.O. Dr. DD
Artesia, New Mex. 88210

SUBJECT

Conversion
to wtr. Injection
Culwin Queen Unit
well #13

MESSAGE

Bill:

ILLEGIBLE

We have every thing set for this.
Another pump, etc. According to our various geologists
this will help us here.

Thanks.

Don Bell/

SIGN HERE

DR Bell

REPLY

DATE

Mr. Bell

9-1-78

*I do not have the authority to approve this, therefore
I am forwarding it to our Santa Fe office*

SIGN HERE

Bill Gressett

ADDRESSEE: PLEASE KEEP WHITE COPY AND RETURN PINK COPY

FOLD
HERE
TO FIT
WINDOW
ENVELOPE

NO. OF COPIES RECEIVED	
DISTRIBUTION	
SANTA FE	
FILE	
U.S.G.S.	
LAND OFFICE	
OPERATOR	

NEW MEXICO OIL CONSERVATION COMMISSION

Form C-103
Supersedes Old
C-102 and C-103
Effective 1-1-65

RECEIVED

AUG 31 1978

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 -" (FORM C-101) FOR SUCH PROPOSALS.)

1. OIL WELL ☒ GAS WELL ☐ OTHER ☐	5a. Indicate Type of Lease State ☐ Fed. ☐ Fee ☐
2. Name of Operator Clifford Cone. et al.	5. State Oil & Gas Lease No. LC 063613
3. Address of Operator P.O. Bx 1148, Lovington, N.M. 88260	7. Unit Agreement Name Culwin Queen Unit.
4. Location of Well UNIT LETTER A 660 FEET FROM THE N. LINE AND 660 FEET FROM THE E. LINE, SECTION 1 TOWNSHIP 19S RANGE 30E. N.M.P.M.	8. Farm or Lease Name
15. Elevation (Show whether DF, RT, GR, etc.) 3513 D.R.	9. Well No. 13
	10. Field and Pool, or Wildcat Shugart.
	12. County Eddy

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

NOTICE OF INTENTION TO:

SUBSEQUENT REPORT OF:

PERFORM REMEDIAL WORK ☐	PLUG AND ABANDON ☐	REMEDIAL WORK ☐	ALTERING CASING ☐
TEMPORARILY ABANDON ☐	CHANGE PLANS ☐	COMMENCE DRILLING OPNS. ☐	PLUG AND ABANDONMENT ☐
PULL OR ALTER CASING ☐	OTHER ☒ Convert to Wtr. Injection -	CASING TEST AND CEMENT JOB ☐	OTHER ☐

17. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work) SEE RULE 1103.

Propose to convert: Culwin Queen Unit, well #13 to wtr. Injection. Originally completed (12/20/58) as J.I.O'Neill, Jr. Fed. E. #1.

Install following, or equivalent.

Baker, Model AD -2" x 5 1/2" Pl. ctd. Packer @ 3070 ft.
o 2 3/8" tbg. set @ 14 points tension.
1500 ft. 2" P.Ctd. injection line (2000 psi. w.press.)
Misc. 2000# w.p. connections & metering equipment.
Load csg. annulus w/ inert fluid d- open csg. head.

Propose to inject (avg.) 275 bwpd.

18. I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNED D. R. Bell TITLE Mgr. operations. DATE 8/ 29/ 78

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

UNITED STATES DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Form approved.
Budget Bureau No. 42-R1424.
5. LEASE DESIGNATION AND SERIAL NO.
11-08-001-0772.
L.C. 063613

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 ☐ GAS WELL ☐ OTHER - Water Injection well
2. NAME OF OPERATOR B & A Operating Co.
3. ADDRESS OF OPERATOR P.O. Box 136, Lovington, New Mex. 88260
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.
See also space 17 below.)
At surface 660 ft. FNL & 660 ft. FEL -
Sec. 1, 19S -30E.
Ltr. Design. A
14. PERMIT NO. 15. ELEVATIONS (Show whether OF, RT, GR, etc.)
3513 (D.F.)

7. UNIT AGREEMENT NAME Culwin Queen Unit t. OK
8. FARM OR LEASE NAME
9. WELL NO. 13
10. FIELD AND POOL, OR WILDCAT Slugart: Y, Qn. SR.
11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA 1 -19S - 30E.
12. COUNTY OR PARISH Eddy 13. STATE N.Mex.

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) Wtr. Inj. well.

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.)

Propose to convert: Culwin queen Unit well #13 to water injection.
Originally completed (12/20/58) as J. I. O'Neill Jr. Fed. E #1.

Install following: (or equivalent)

Packer Model AD (tension) Pl. ctd Packer (2" x 5½") @ 3070 ft.
(casing perfs. @ 3092 - 3126')
1500 ft. 2" P.C. Injection line (2000 psi. W.P.)
Misc. (2000# w.p.) connections & metering equipment.
Load csg. annulus w/ inert fluid , open & csg. head.

RECEIVED

JUN 5 1978

U.S. GEOLOGICAL SURVEY
OPERATOR ARTESIA, NEW MEXICO MAY 31, 1978

CLIFFORD CONE:

Clifford Cone

18 I hereby certify that the foregoing is true and correct

SIGNED

D.A. Bell/ *D.A. Bell*

TITLE

Prod. Supt.

DATE 5/28/1978

(This space for Federal or State official use)

APPROVED BY

Joe A. Kraus

TITLE

DISTRICT ENGINEER

DATE

AUG 25 1978

CONDITIONS OF APPROVAL IF ANY:

Subject to NMOC Approval

*See Instructions on Reverse Side

T. C. 2 SEC.

REPEAT SECTION

3000

3100

LOGGING SENSITIVITY
SENSITIVITY READING - 560
MULTIPLIER - X1
ZERO SUPPRESSION - 0

JOSEPH I. O'NEILL JR.
FEDERAL E N°1
EDDY CO. W/C

T. C. 2 SEC.

LOGGING SENSITIVITY
SENSITIVITY READING - 198
MULTIPLIER - X1
ZERO SUPPRESSION - 0

3092

3103

3110

3126

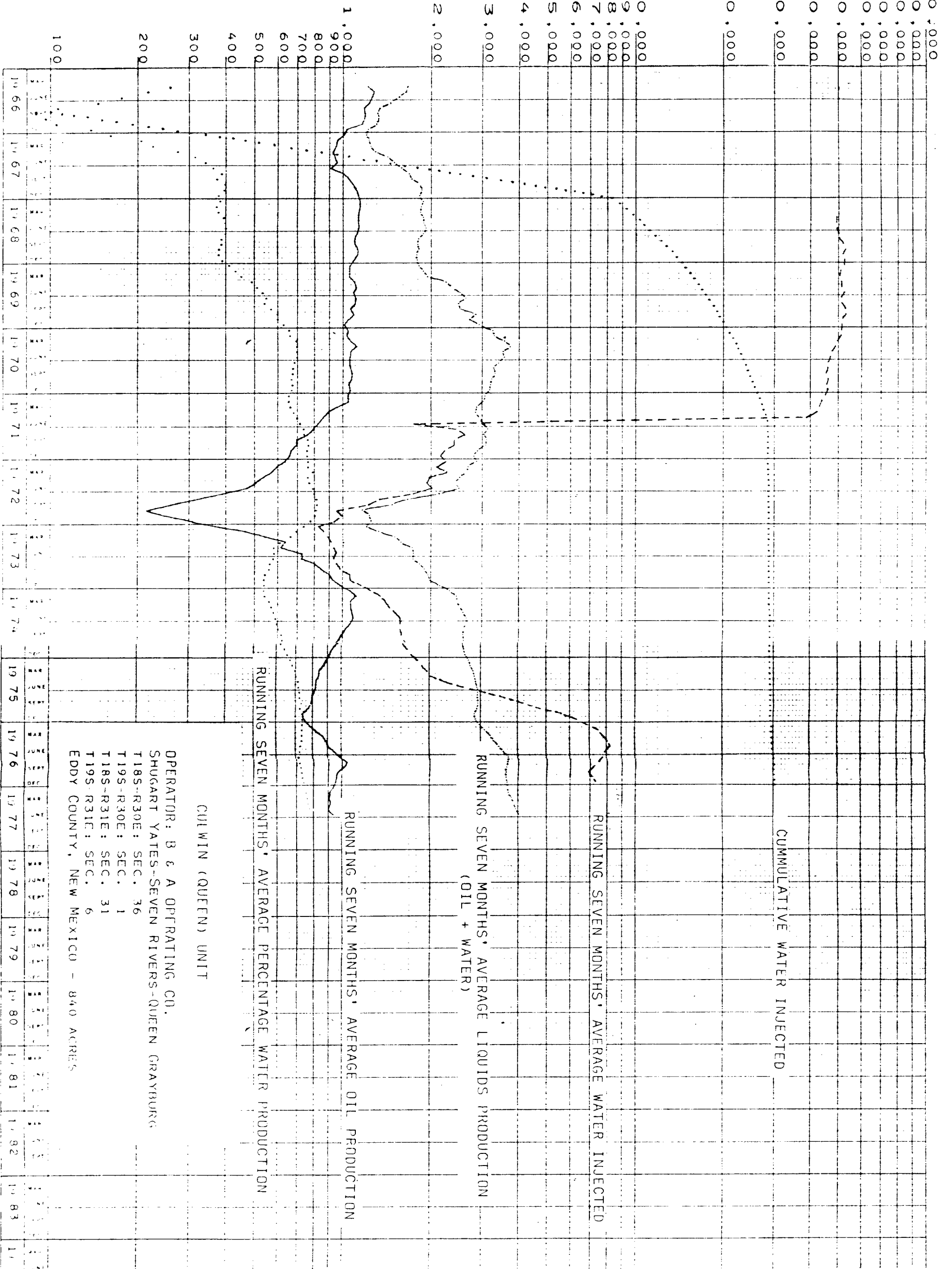
BARRELS/MONTH

OIL PRODUCTION

LIQUIDS PRODUCTION

WATER INJECTED

100,000
90,000
80,000
70,000
60,000
50,000
40,000
30,000
20,000



CULWIN (QUEEN) UNIT
OPERATOR: B & A OPERATING CO.
SHUGART YATES-SEVEN RIVERS-QUEEN GRAYBURG
T18S-R30E: SEC. 36
T19S-R30E: SEC. 1
T18S-R31E: SEC. 31
T19S-R31E: SEC. 6
EDDY COUNTY, NEW MEXICO - 840 ACRES

WATER PRODUCTION (%)

100%
90%
80%
70%
60%
50%
40%
30%
20%
10%

100,000
10,000

1,000,000

10,000,000

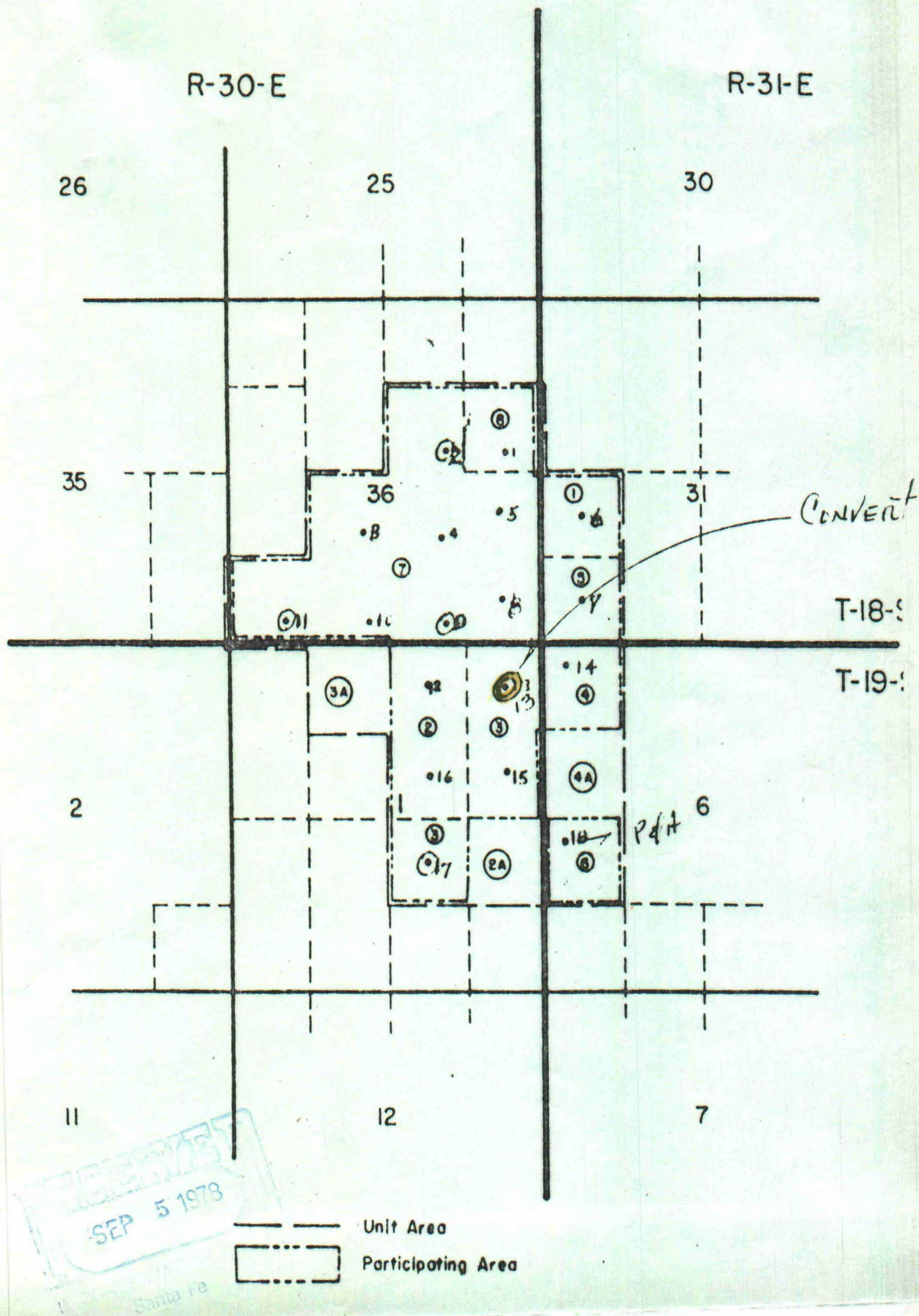
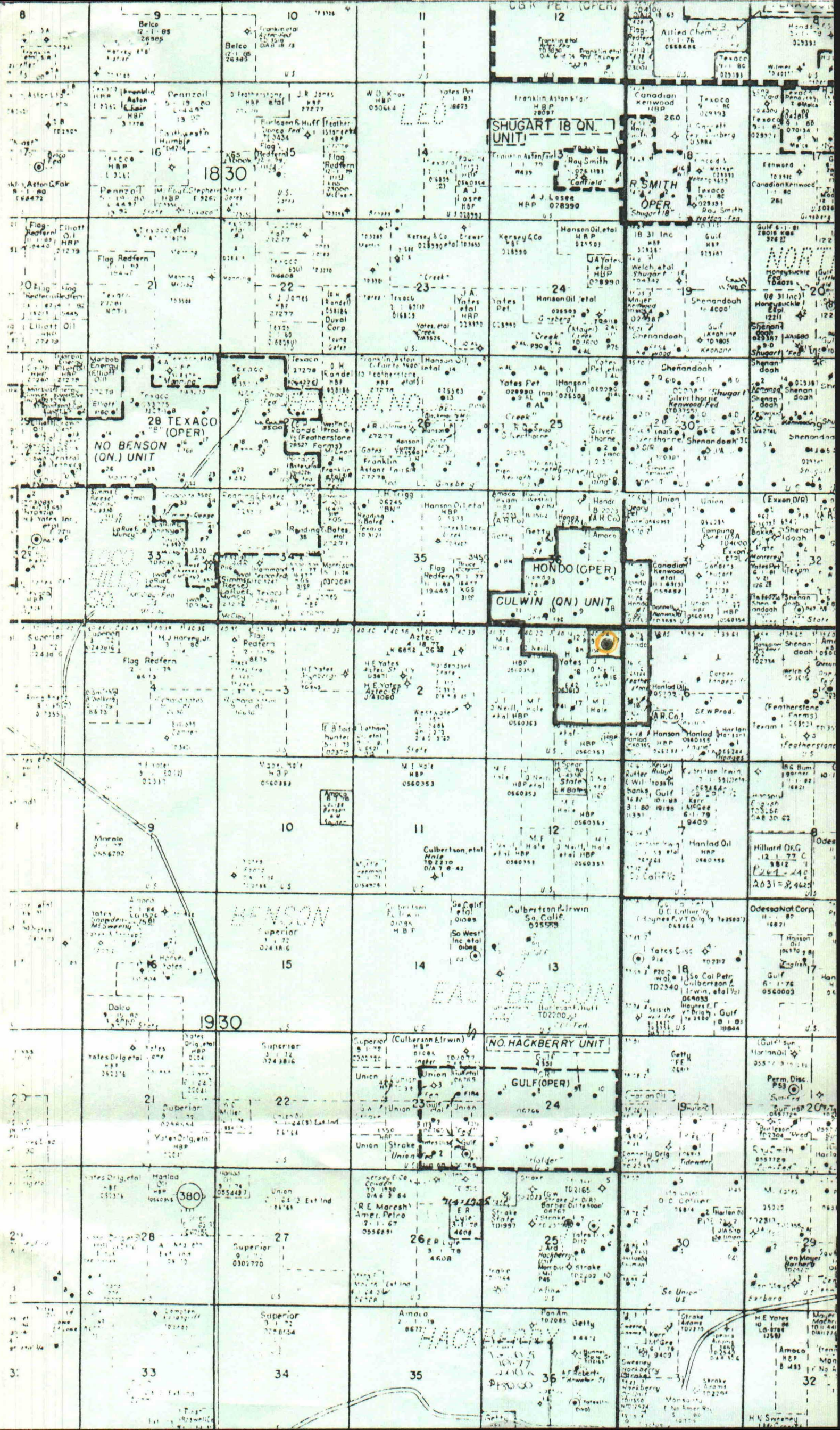


EXHIBIT "A"

UNIT AGREEMENT
CULWIN QUEEN UNIT

EDDY COUNTY, NEW MEXICO



Clifford Cone
P. O. Box 1148
Lovington, New Mexico 88260

MAY 31, 1978

UNITED STATES GEOLOGICAL SURVEY
P.O. Box 1857
ROSWELL, NEW MEXICO 88201

RE: REQUEST FOR APPROVAL OF THE CONVERSION OF AN OIL WELL
TO A WATER INJECTION WELL
PROPERTY: CULWIN QUEEN UNIT
WELL: CULWIN QUEEN UNIT WELL #13
LOCATION: A - SEC. 1 - T19S-R30E (NE/4NE/4) - LC-063613
EDDY COUNTY, NEW MEXICO
FIELD: SHUGART: YATES, QUEEN, SEVEN RIVERS
OPERATOR: CLIFFORD CONE

DEAR SIRs:

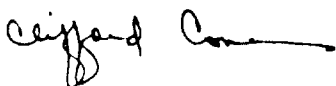
THE CAPTIONED WELL HAS REACHED ITS ECONOMIC LIMIT AND IS CURRENTLY PRODUCING LESS THAN ONE (1) BOPD. I AM, THEREFORE, SEEKING TO CONVERT THIS WELL INTO A WATER INJECTION WELL TO HELP IMPROVE THE OVERALL PERFORMANCE OF THE UNIT.

SINCE I BECAME THE OPERATOR OF THIS UNIT IN SEPTEMBER, 1977, I HAVE BEEN ENDEAVORING TO IMPROVE THE PERFORMANCE OF THIS UNIT. IT IS MY CONCLUSION FROM MY STUDY OF THE PERFORMANCE OF THIS UNIT THAT IT IS ESSENTIAL TO INCREASE THE VOLUME OF WATER BEING INJECTED INTO THE QUEEN FORMATION IN ORDER TO IMPROVE SWEEP EFFICIENCY, INCREASE RESERVIOR PRESSURE, IMPROVE PRODUCTIVITY, AND IMPROVE THE PRESENT WORTH VALUE OF THE RECOVERABLE RESERVES. AT TIMES IN THE RECENT PAST WE HAVE HAD ONLY ONE WATER INJECTION WELL IN OPERATION; THIS IS VERY INADEQUATE FOR SUCCESSFULLY WATERFLOODING AN EIGHTEEN (18) WELL UNIT. WE HAVE AVAILABLE 5000 BWPM TO INJECT INTO OUR UNIT, BUT DUE TO AN INADEQUATE NUMBER OF INJECTION WELLS WE HAVE ONLY BEEN ABLE TO INJECT ABOUT 200 BWPM IN ADDITION TO PRODUCED WATER. I HAVE ENCLOSED A GRAPH OF THE UNIT PERFORMANCE WHICH SHOWS THE VERY GOOD RESPONSE TO THE WATERFLOODING WHEN THE HIGH VOLUMES OF WATER WERE INJECTED.

I HAVE ENCLOSED THREE (3) COUNTERPARTS OF THE U.S.G.S. FORM 9-331 (MAY, 1963) - SUNDRY NOTICES AND REPORTS ON WELLS TO FORMALLY REQUEST THE APPROVAL OF THIS PROPOSED CONVERSION OF WELL #13 TO WATER INJECTION. I HAVE ALSO ENCLOSED A UNIT PLAT AND A SCHEMATIC OF THE WELL PROFILE.

YOUR CONSIDERATION AND APPROVAL OF THIS REQUEST WILL BE GREATLY APPRECIATED. IF YOU NEED ADDITIONAL INFORMATION, PLEASE LET ME KNOW.

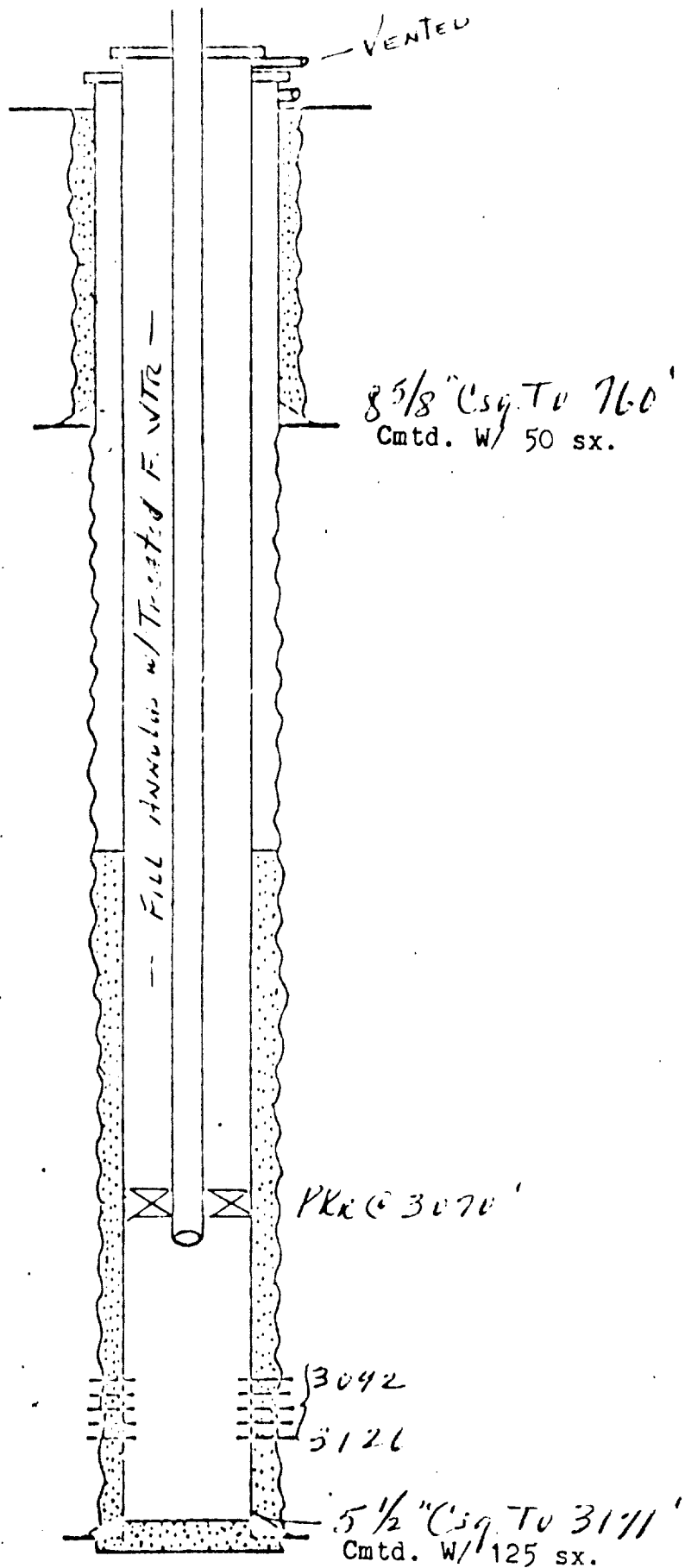
SINCERELY,



CLIFFORD CONE

COPY: DON R. BELL ✓

F. 15 - Profile
CLIFFORD CONE



CLIFFORD CONE
Culwin Queen Unit. well #13.
Shugart Field: Eddy Co. N.M.