

DIAGRAMMATIC WELL SKETCH

BRIDGES STATE WELL #14 WIW

VACUUM (GRAYBURG-SAN ANDRES) Pool

LEA COUNTY, NEW MEXICO

E EXAMINED MATTER

SERVATION C

EXHIBIT NO. 5

4368

G.L. ELEV. = 4007'

K.B. SURV. =

10 3/4" 35 TS GRADENA SET
w/250 SX. CIRC.

803'

Est. Top Cement
2,400'

LINER TOP

4,171'

7" - 24" / FT GRADENA
Set w/225 SX.

4,198'

2" Tubing
CMT. LINED

BAKER P.C.T. PRR
4404'

GRAYBURG SAN ANDRES PRRS

4425'-4545' w/6 JSPT

4655'-4670 w/6 JSPT

OPEN HOLE 4763'-

4803' TD

5 1/2" 15# J-55 LINER set w/100 SX

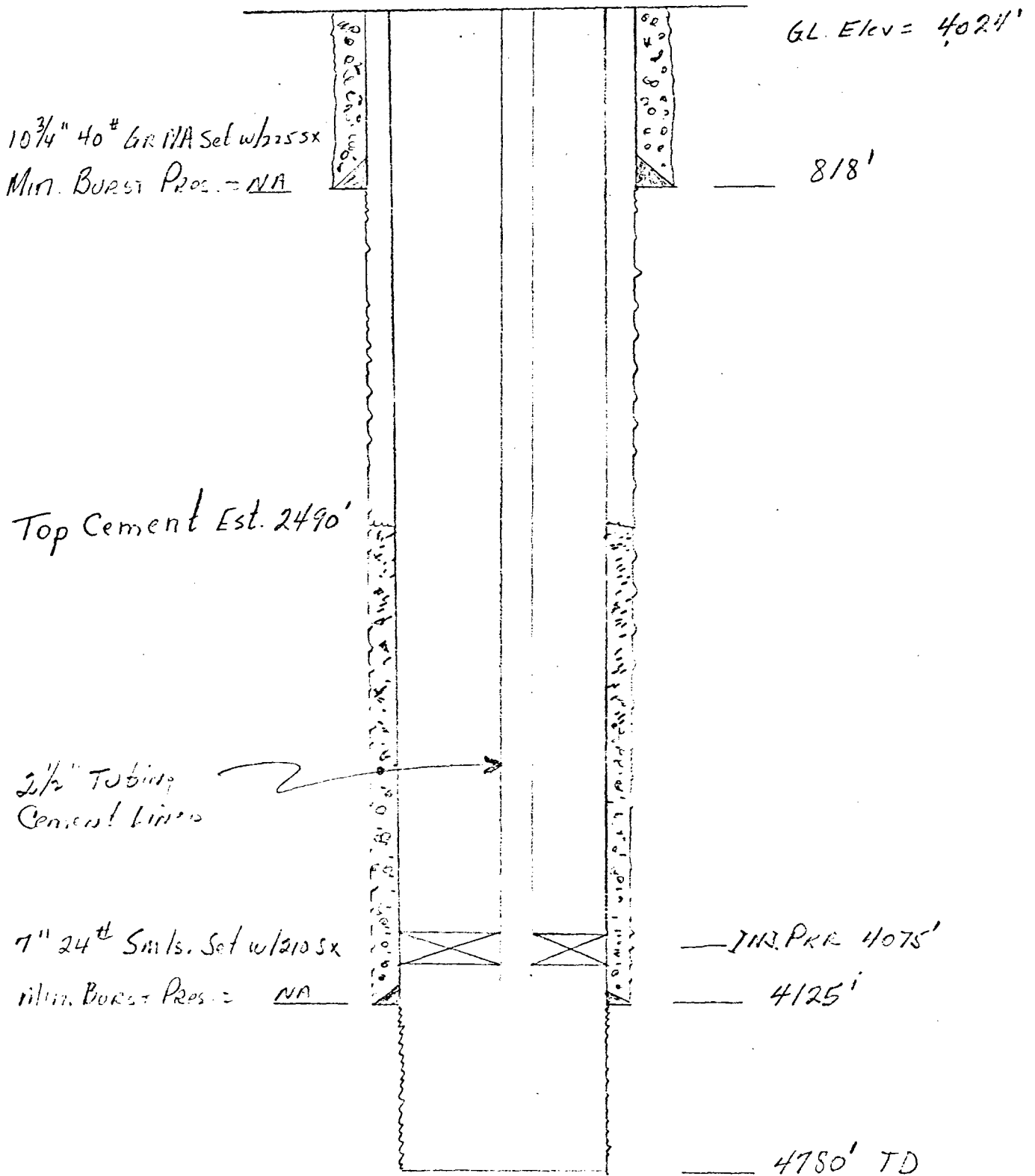
Min. Borehole PRRS = 5700 PSI

DIAGRAMMATIC WELL SKETCH

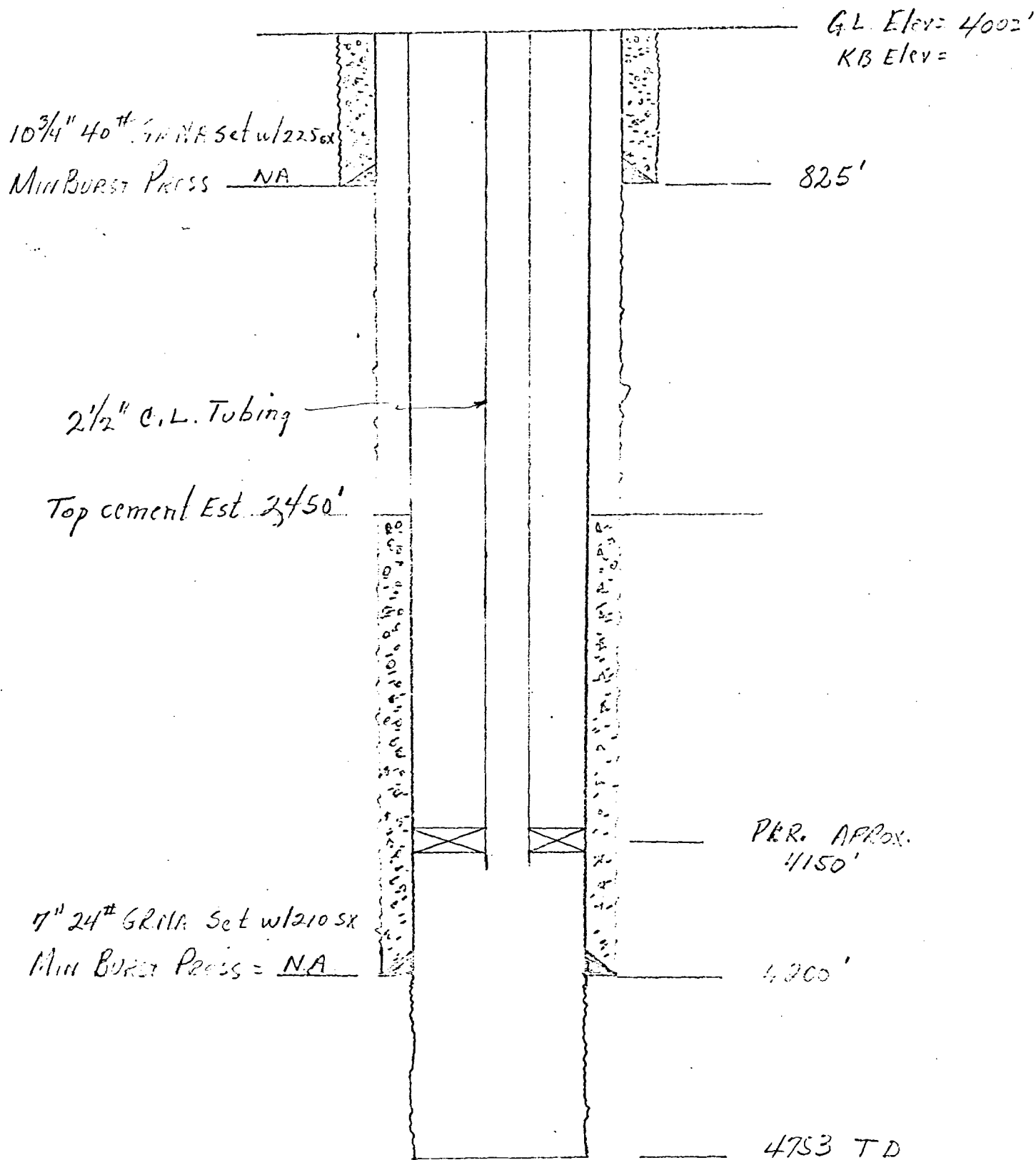
BRIDGES STATE WELL # 15 WIW

VACUUM (GRAYBURG SAN ANTONIO) Pool

LEA County, New Mexico



Diagrammatic Well Sketch
Bridges State Well # 17 WIW
Vacuum (Grayburg-San Andres) Pool
Lea County, New Mexico

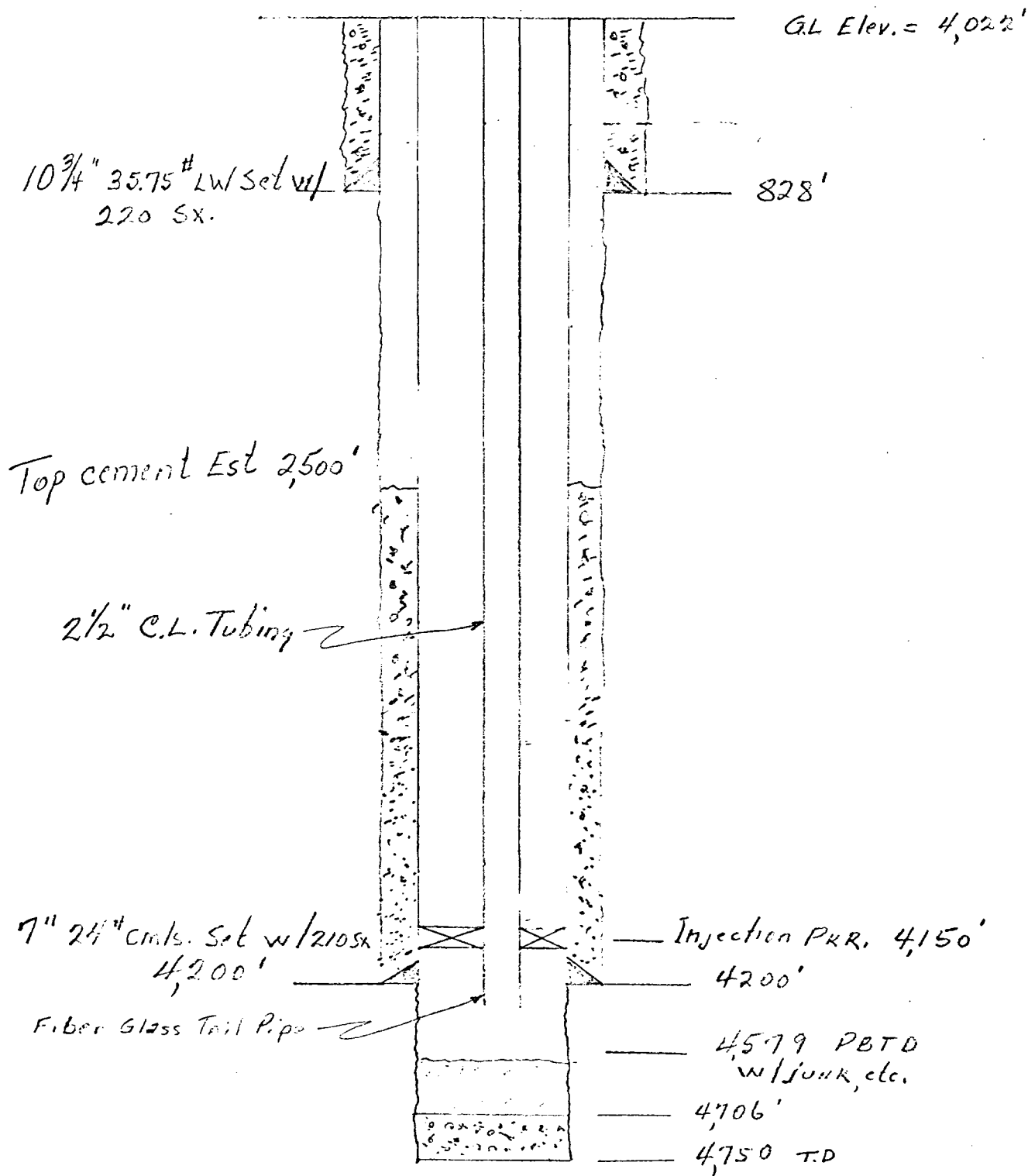


Diagrammatic Well Section

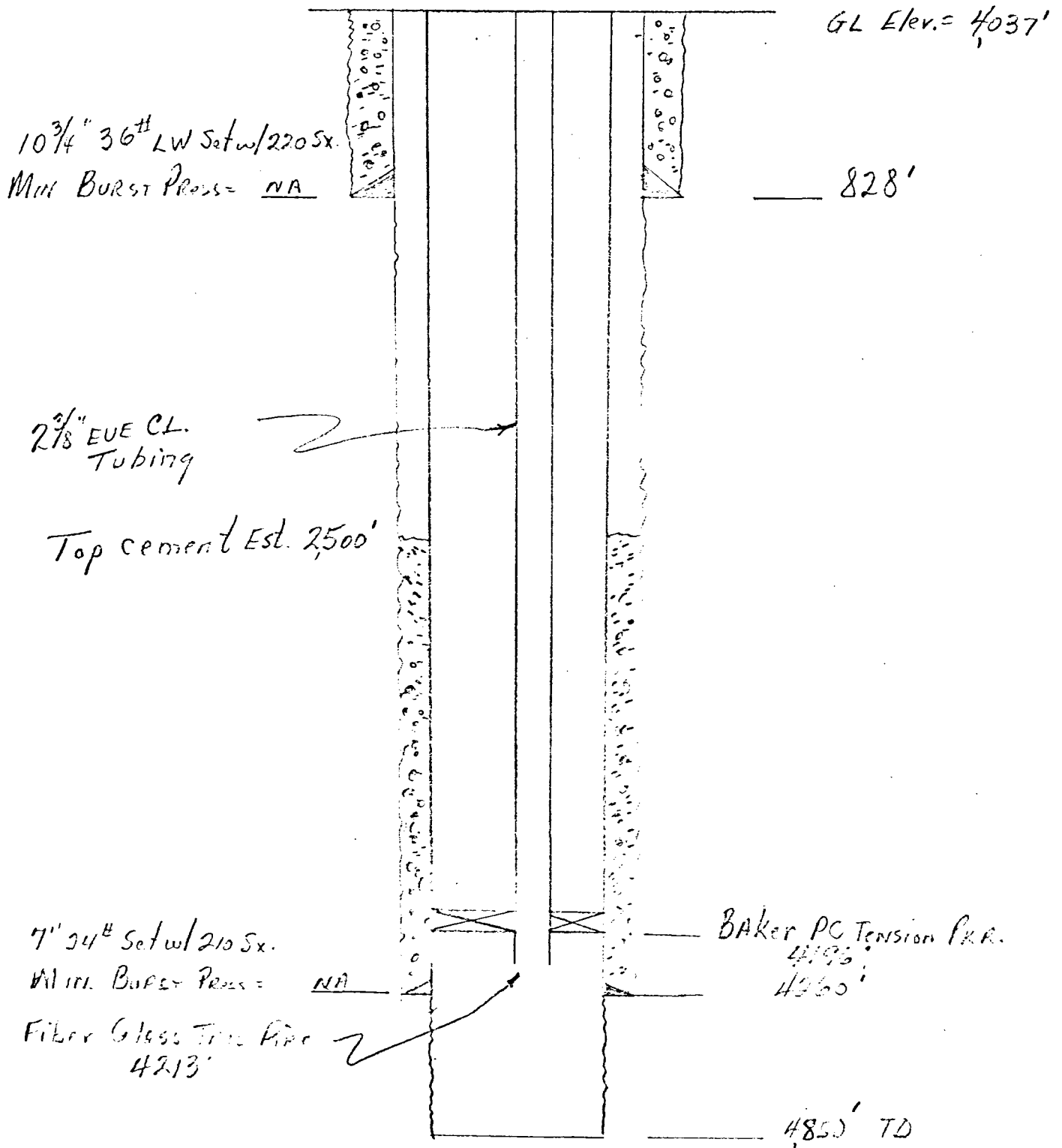
Bridges State Well # 25 W1W

VACUUM (Grayburg-San Andres) Pool

Lea County, New Mexico



DIAGRAMMATIC WELL SKETCH
BRIDGES STATE WELL # 29 WIW
VACUUM (GRAYBURG SANDSTONE) POOL
LEA COUNTY, NEW MEXICO

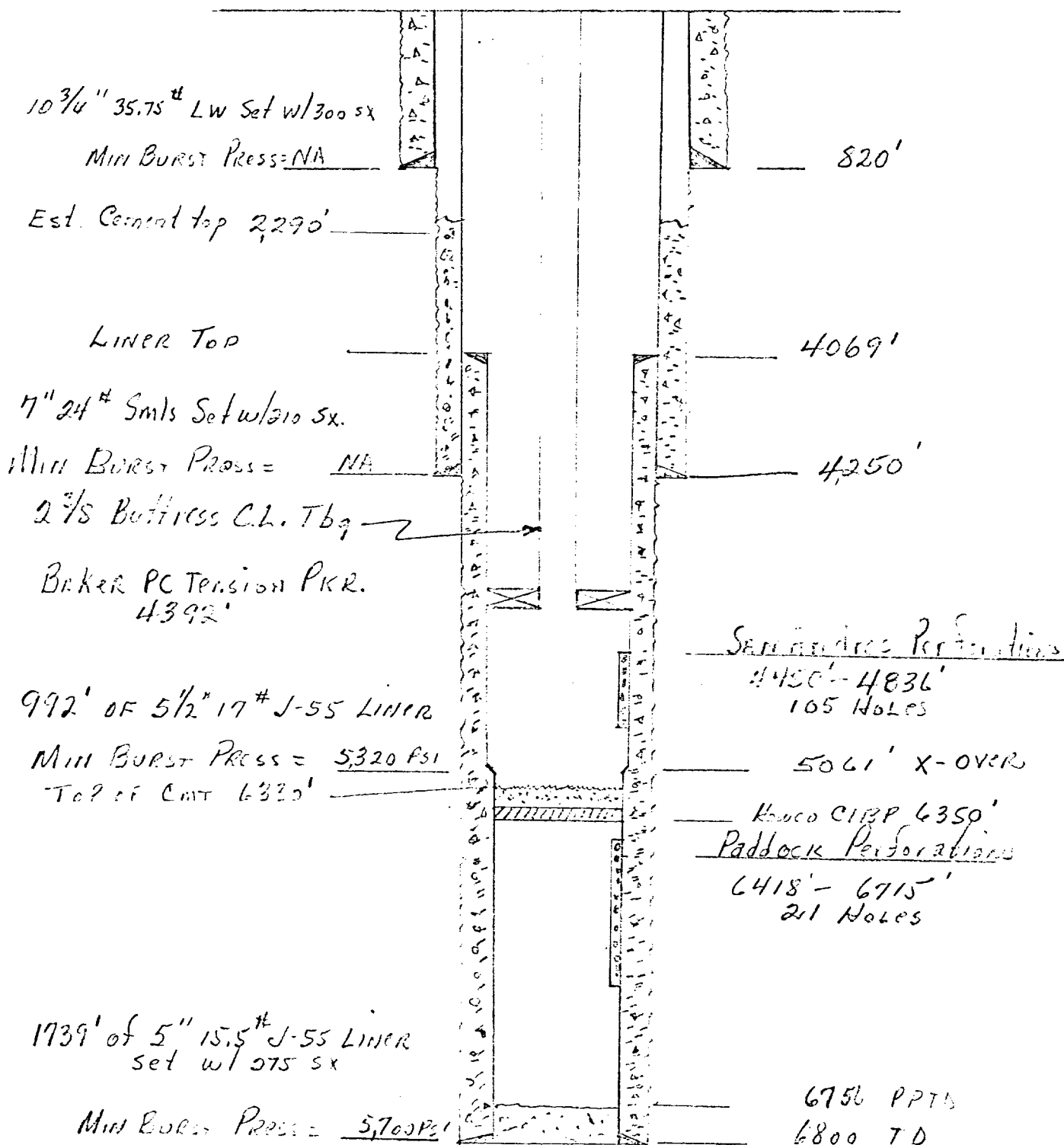


DIAGRAMMATIC WELL SKETCH

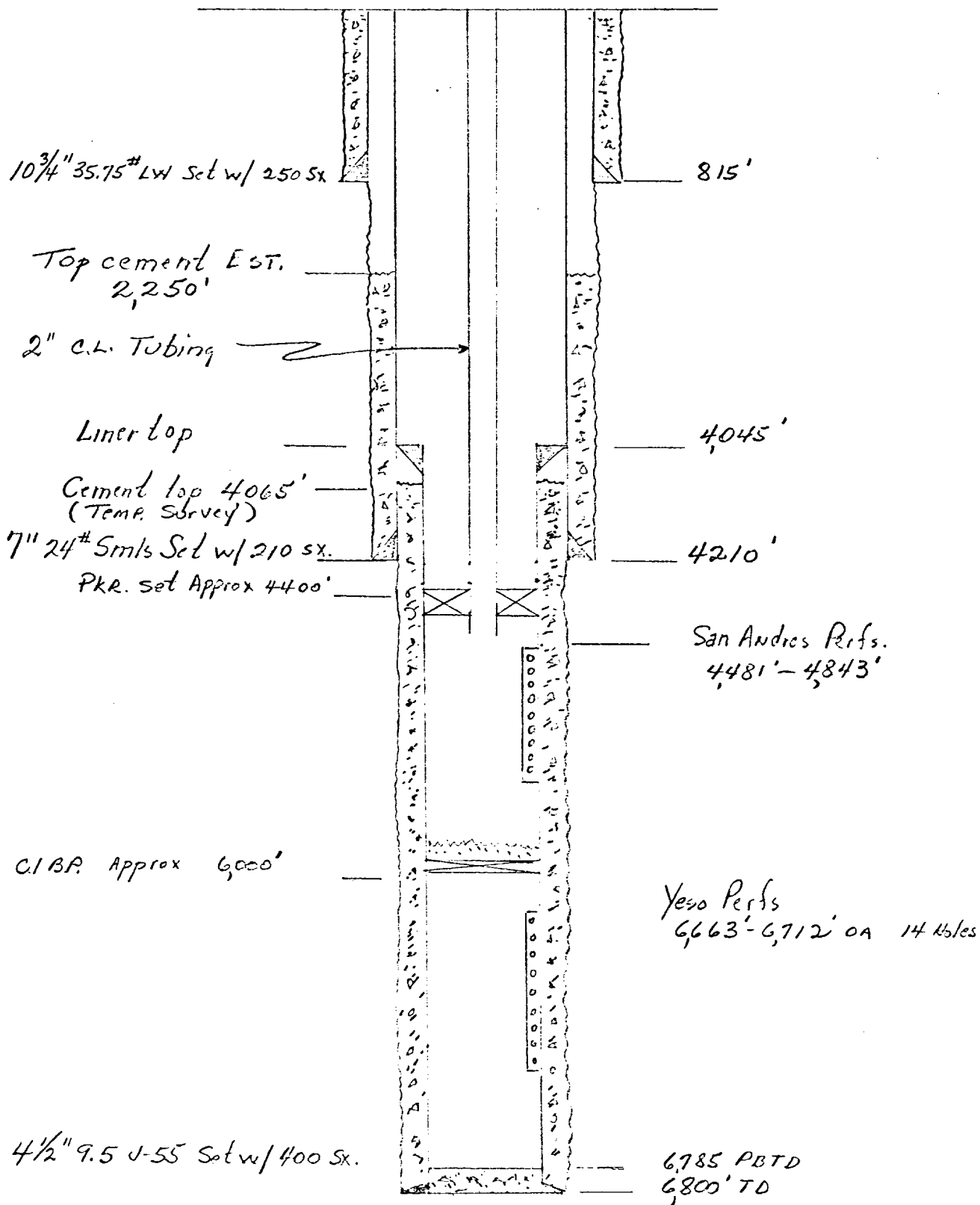
BRIDGES STATE WELL #30 W/W

VACUUM (Grayburg-San Andres) Pool

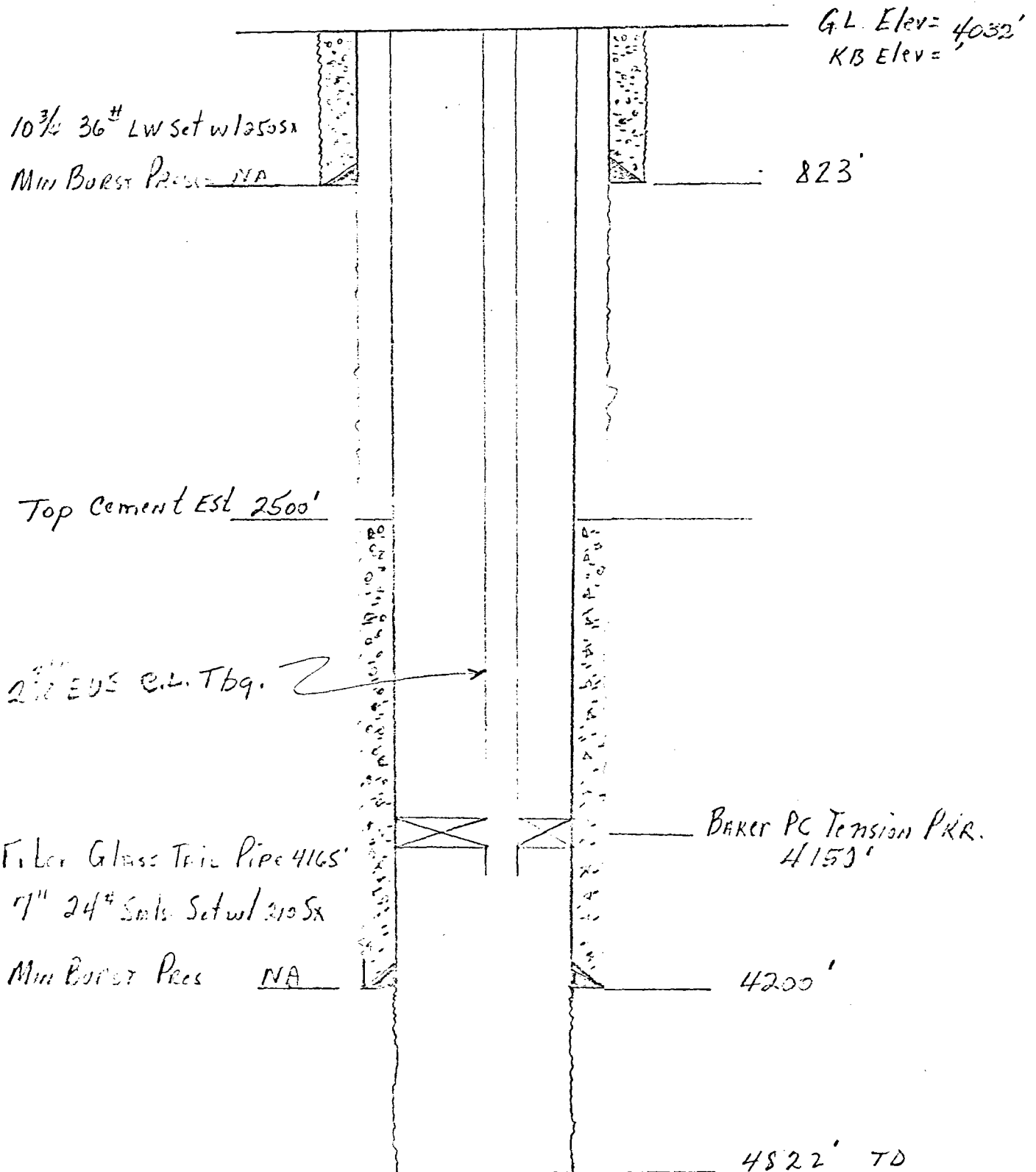
LEA COUNTY, NEW MEXICO



Diagrammatic Well Sketch
Bridges State Well #32 WIW
Vacuum (Grayburg-San Andres) Pool
Lea County, New Mexico



Diagrammatic Well Sketch
Bridges State Well #35 WIW
VACUUM (Grayburg-San Andres) Pool
Lea County, New Mexico



Diagrammatic Well Sketch
Bridges State Well # 42, WIW
Vacuum (Grayburg-San Andres) Pool
Lee County, New Mexico

GL Elev = 4048'
 KB Elev =

10³/₄" 35.75' LW Set w/ 250 SX
 MIN BURST PRES = NA

832'

Top cement Est. 2500'

2³/₈" C.L. Tubing

7" 22" s/l Set w/ 210 SX

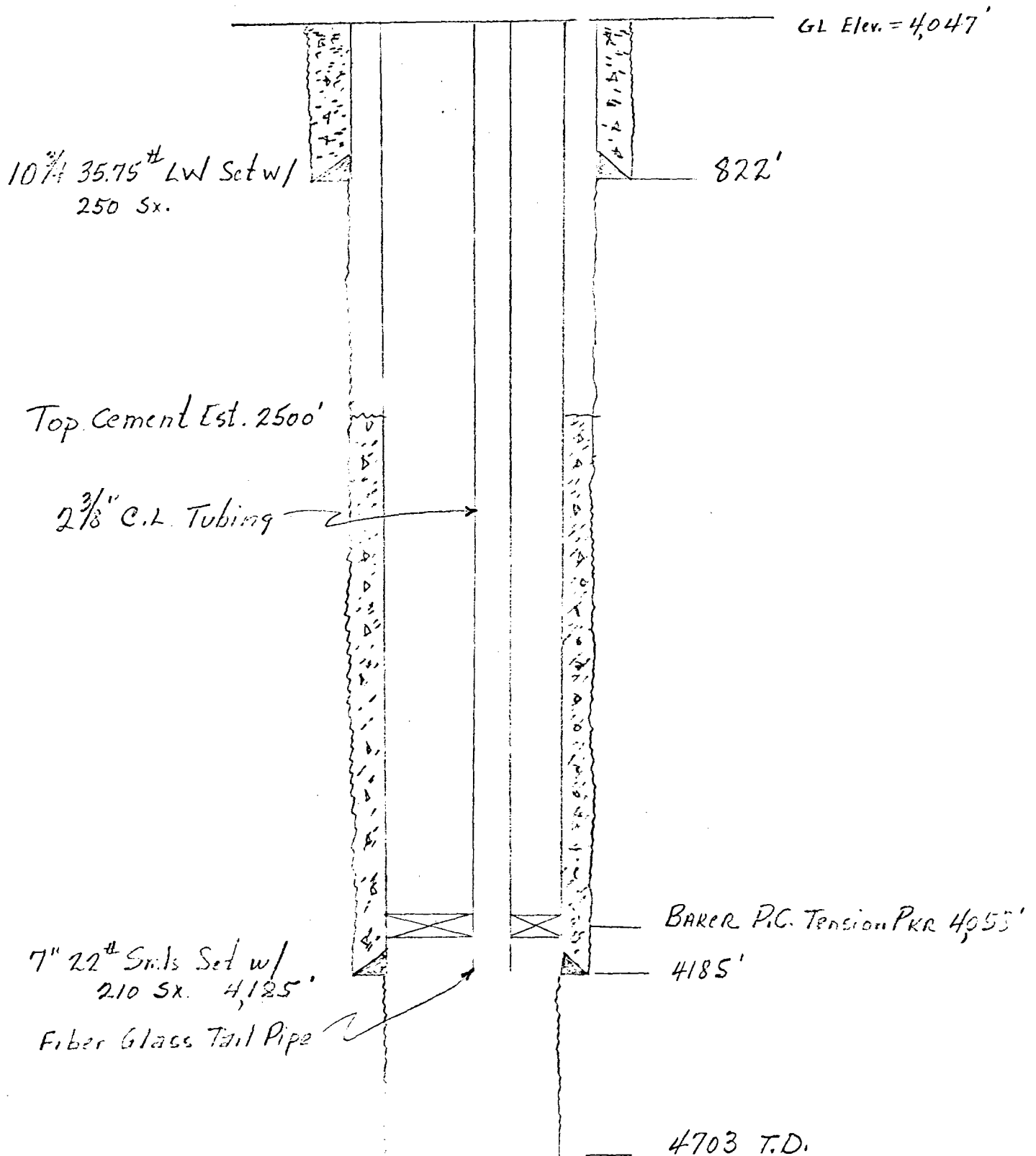
MIN BURST PRES = NA

Baker AD-1 PRR 4220'

4250'

4730' TD

Diagrammatic Well Sketch
Bridges State Well # 48 W1W
VACUUM (GRAY burg-San Andres) Pool
Lea County, New Mexico



Diagrammatic Well Sketch
Bridges State Well # 52 WIW
Vacuum (Grayburg-San Andres) Pool
Lea County, New Mexico

G.L. Elev = 4045'
 KB Elev = '

10 3/4" 35# OHL Set w/ 2501SX
 Min Burst Press = NA

828'

Top cement Est. 2560'

2 3/8" EUE Cement Lined
 Tubing

7" 22# Std Set w/ 220SX
 Min Burst Press = NA

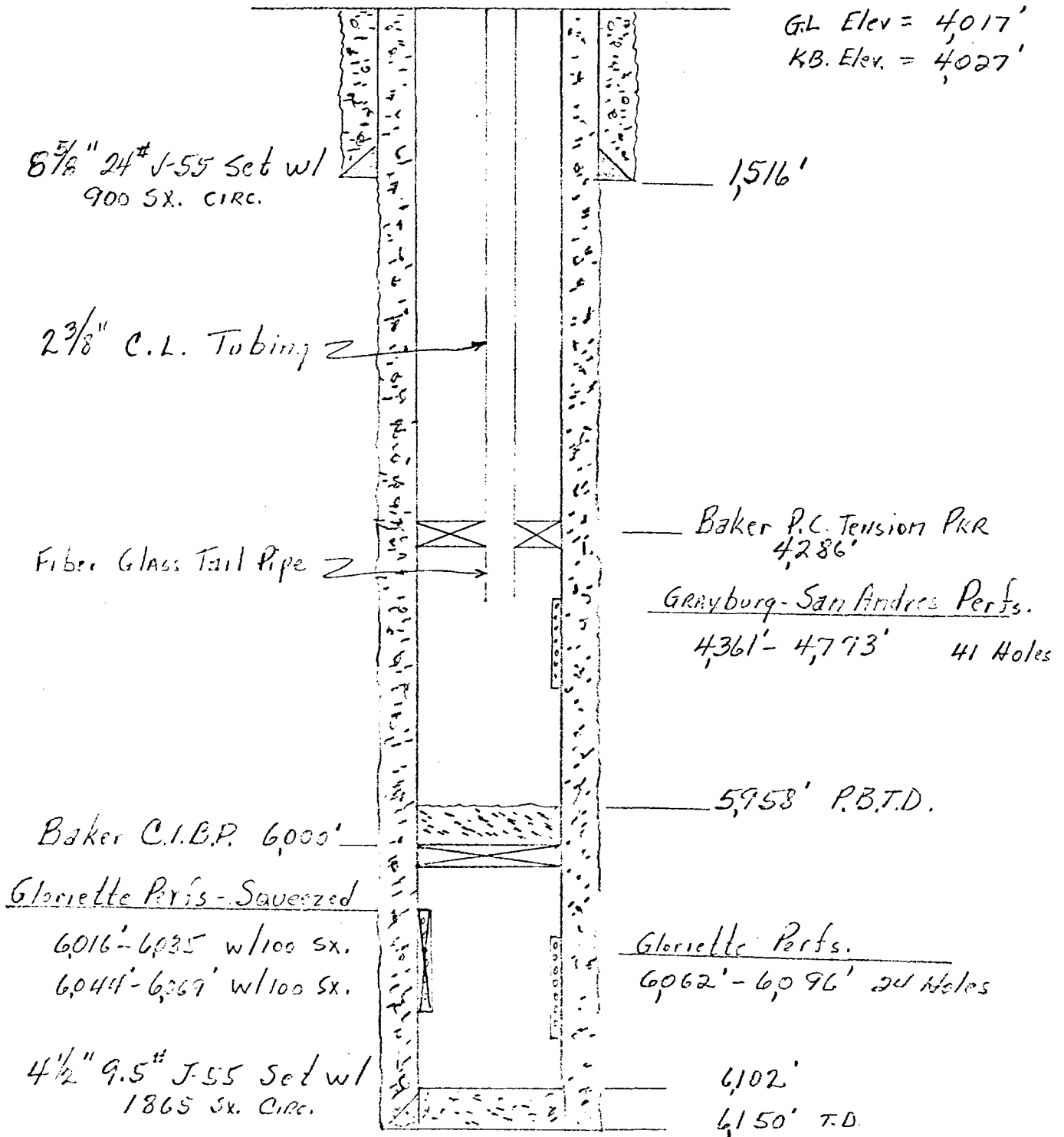
BAKER P&T PRR 4151'

4248'

Fiber Glass Tap Pipe
 4136'

4900' TD

Diagrammatic Well Sketch
Bridges State Well #105 WIW
VACUUM (Grayburg San Andres) Pool
Lea County, New Mexico



Diagrammatic Well Sketch

Bridges State Well #132 W1W1

VACUUM (Grayburg-San Andres) Pool

Lea County, New Mexico

8 5/8" 20# ST&C Set
W/275 Sx.

365'

2 3/8" C.L. Tubing

Fiber Glass Tail Pipe

Baker T.C. Tension PR2.
4442'

San Andres Pits.

4502' - 4868' W/115 PF
160 HOLES

4872'

4 1/2" 9.5 J-55 Set
W/300 Sx. Circ.

4912' TD

BEFORE THE OIL CONSERVATION COMMISSION
OF THE STATE OF NEW MEXICO

IN THE MATTER OF THE HEARING
CALLED BY THE OIL CONSERVATION
COMMISSION OF NEW MEXICO FOR
THE PURPOSE OF CONSIDERING:

CASE No. 4368
Order No. R-3984

APPLICATION OF MOBIL OIL CORPORATION
FOR A WATERFLOOD EXPANSION AND AMEND-
MENT OF RULES GOVERNING SAME, LEA
COUNTY, NEW MEXICO.

ORDER OF THE COMMISSION

BY THE COMMISSION:

This cause came on for hearing at 9 a.m. on June 10, 1970,
at Santa Fe, New Mexico, before Examiner Daniel S. Nutter.

NOW, on this 29th day of June, 1970, the Commission, a
quorum being present, having considered the testimony, the record,
and the recommendations of the Examiner, and being fully advised
in the premises,

FINDS:

(1) That due public notice having been given as required by
law, the Commission has jurisdiction of this cause and the subject
matter thereof.

(2) That the applicant, Mobil Oil Corporation, seeks
permission to expand its Bridges State Waterflood Project, Vacuum
Grayburg-San Andres Pool, by the conversion to water injection of
13 additional wells in Sections 25, 26, and 27 of Township 17
South, Range 34 East, NMPM, Lea County, New Mexico, as follows:

<u>WELL NO.</u>	<u>UNIT</u>	<u>SECTION</u>
14	G	25
17	A	25
32	C	25
15	O	26
25	I	26
29	M	26
30	G	26
35	K	26

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CASE No. 4368

Order No. R-3984

(2) - Continued from Page 1

<u>WELL NO.</u>	<u>UNIT</u>	<u>SECTION</u>
105	A	26
132	E	26
42	O	27
48	I	27
52	A	27

(3) That the applicant further seeks an administrative procedure whereby said project could be expanded to include additional lands and injection wells in the area of said project as may be necessary in order to complete an efficient injection pattern.

(4) That the wells in a portion of the proposed project area are in an advanced state of depletion and should properly be classified as "stripper" wells.

(5) That the injection of water through the above-described Wells Nos. 14, 25, 15, and 29 may cause waste and may violate the correlative rights of the offset operators to the South and East of said proposed injection wells.

(6) That the applicant's request to convert the above-described Wells Nos. 14, 25, 15, and 29 to water injection should be denied.

(7) That, subject to Finding No. 6, the proposed waterflood project should result in the recovery of otherwise unrecoverable oil, thereby preventing waste.

(8) That, subject to Finding No. 6, the subject application should be approved and the project should be governed by the provisions of Rules 701, 702, and 703 of the Commission Rules and Regulations; provided, however, that the showing of well response as required by Rule 701 E-5 shall not be necessary before obtaining administrative approval for the conversion of additional wells to water injection, and provided further, that said injection wells are drilled no closer than 330 feet to the outer boundary of the subject lease nor closer than 10 feet to any quarter-quarter section or subdivision inner boundary.

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CASE No. 4368
Order No. R-3984

IT IS THEREFORE ORDERED:

(1) That the applicant, Mobil Oil Corporation, is hereby authorized to expand its Bridges State Waterflood Project in the Vacuum Grayburg-San Andres Pool, authorized by Order No. R-1244, as amended, by the injection of water into the Grayburg and San Andres formations through the following-described nine additional wells in Sections 25, 26, and 27 of Township 17 South, Range 34 East, NMPM, Lea County, New Mexico:

<u>WELL NO.</u>	<u>UNIT</u>	<u>SECTION</u>
Bridges State Well No. 17	A	25
Bridges State Well No. 32	C	25
Bridges State Well No. 30	G	26
Bridges State Well No. 35	K	26
Bridges State Well No. 105	A	26
Bridges State Well No. 132	E	26
Bridges State Well No. 42	O	27
Bridges State Well No. 48	I	27
Bridges State Well No. 52	A	27

(2) That the waterflood project as expanded shall be governed by the provisions of Rules 701, 702, and 703 of the Commission Rules and Regulations;

PROVIDED HOWEVER, that the Secretary-Director of the Commission may approve such additional lands and injection wells in the area of said waterflood project as may be necessary to complete an efficient injection pattern, provided said wells are drilled no closer than 330 feet to the outer boundary of the subject lease nor closer than 10 feet to any quarter-quarter section or subdivision inner boundary, and provided further, that the application therefor has been filed in accordance with Rule 701 B of the Commission Rules and Regulations, and provided further, that a copy of the application has been sent to all offset operators, if any there be, and no such operator has objected within 15 days. The showing of well response as required by Rule 701 E 5 shall not be necessary before obtaining administrative approval for the conversion of additional wells to water injection.

(3) That monthly progress reports of the expanded waterflood project herein authorized shall be submitted to the Commission in accordance with Rules 704 and 1120 of the Commission Rules and Regulations.

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CASE No. 4368
Order No. R-3984

(4) That the applicant's request to convert to water injection its Bridges State Wells Nos. 14, 15, 25, and 29 located, respectively, in Unit G of Section 25, and Units O, I, and M of Section 26, Township 17 South, Range 34 East, NMPM, Vacuum Grayburg-San Andres Pool, Lea County, New Mexico, is hereby denied.

(5) That jurisdiction of this cause is retained for the entry of such further orders as the Commission may deem necessary.

DONE at Santa Fe, New Mexico, on the day and year hereinabove designated.

STATE OF NEW MEXICO
OIL CONSERVATION COMMISSION


DAVID F. CARGO, Chairman


ALEX J. ARMIJO, Member


A. L. PORTER, Jr., Member & Secretary

