



SINCLAIR OIL & GAS COMPANY MAIN OFFICE OCC

January 31, 1966

FEB 2 PM 1 19

Handwritten: 1/31/66 2:30

Mr. A. L. Porter, Jr.
Secretary-Director
Oil Conservation Commission
Box 2088
Santa Fe, New Mexico

Dear Sir:

Administrative approval is requested for the casing and tubing programs of Keel "A" No. 5, 7, and 14, Keel "B" No. 1, 2, 4, and 25, and West "B" No. 24 and 26 to water injection wells in the Keel-West Waterflood Project in the Grayburg Jackson Pool, Lea County, New Mexico.

These wells were included as a part of Stage III and Stage IV expansion which was authorized by Commission Order #2268-A and #2268-B.

Attached is a schematic of the proposed casing and tubing programs. If additional information is required, please advise.

Yours very truly,

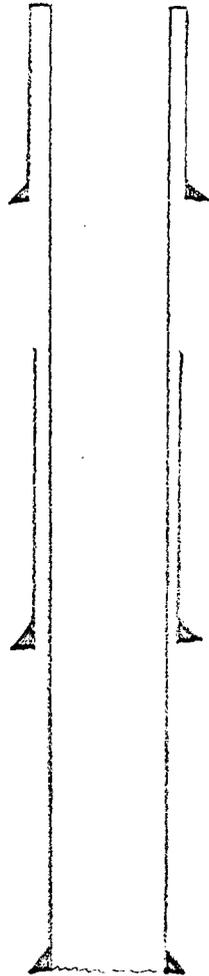
Fred Burns
Superintendent

FB/FS/jh

Attachments

cc: State Engineer

KEEL "A" #5



8-5/8" @ 502'
50 sks. (circ.)

Top of 5-1/2" (shot-off) @ 1825'
Cement top originally shown above
where pipe was finally pulled.

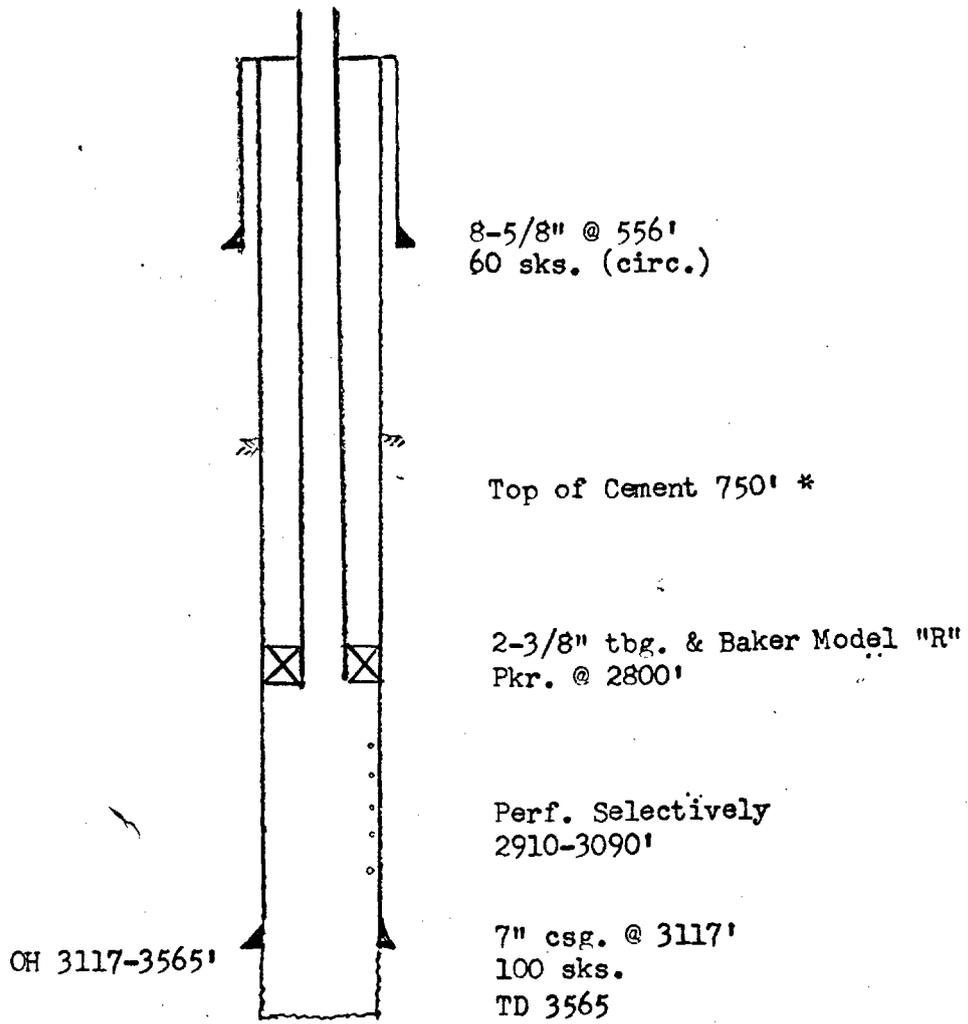
5-1/2" @ 3130'
100 sks.

Perf. Selectively
3150-3547'

2-7/8" csg. @ 3547'
Cement to surface
TD 3547'

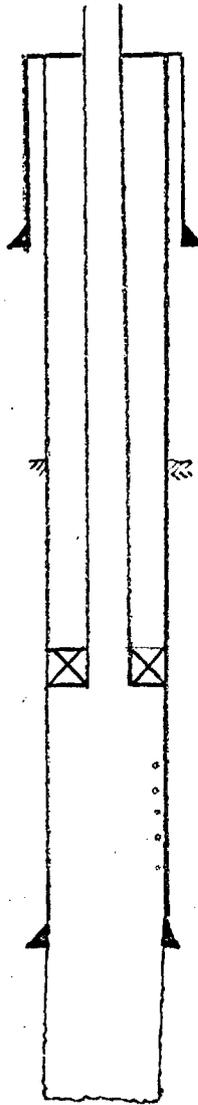
Inject thru 2-7/8" csg.

KEEL "A" #7



* Theoretical Fillup

KEEL "A" #14



10-3/4" @ 587'
100 sks. (circ.)

Top of Cement
2775'

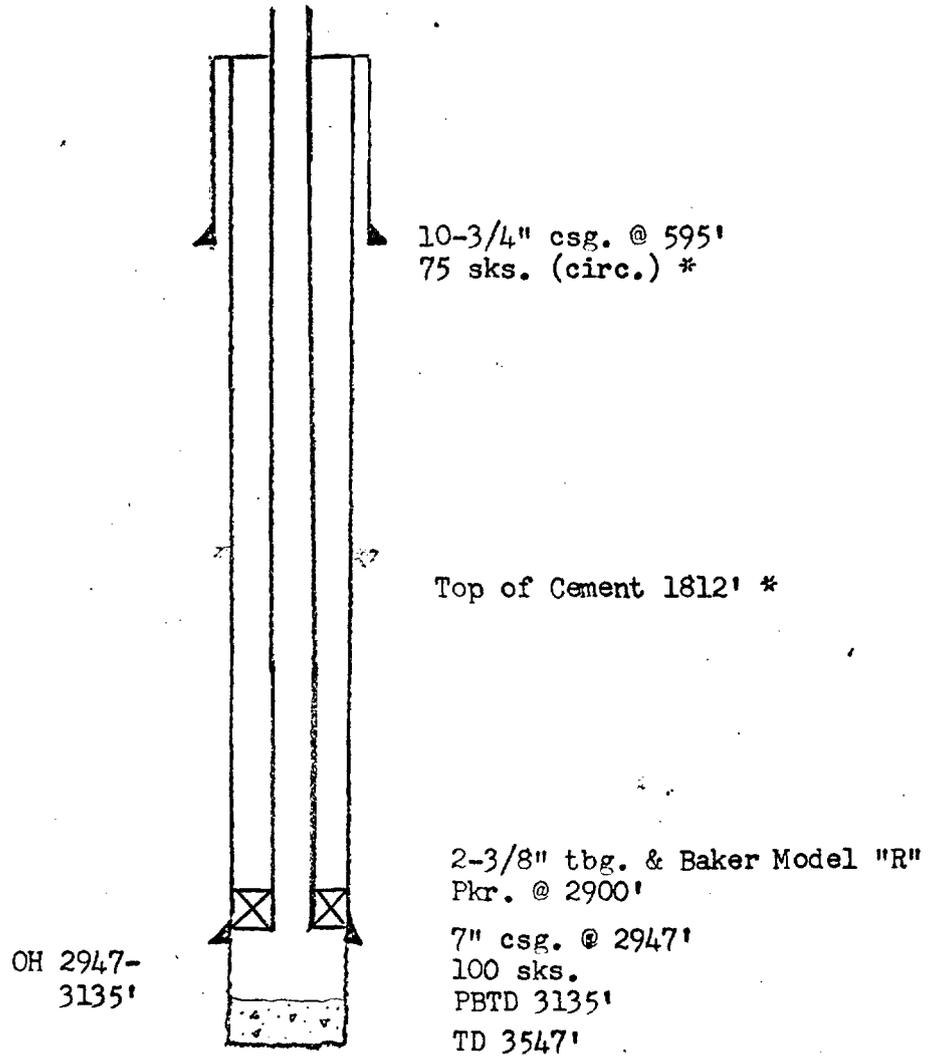
2-3/8" tbg. & Baker Model R Pkr. @
2800'

Perf. Selectively 2892-3200'

OH 3425-3502'
5-1/2" @ 3425'
125 sks.

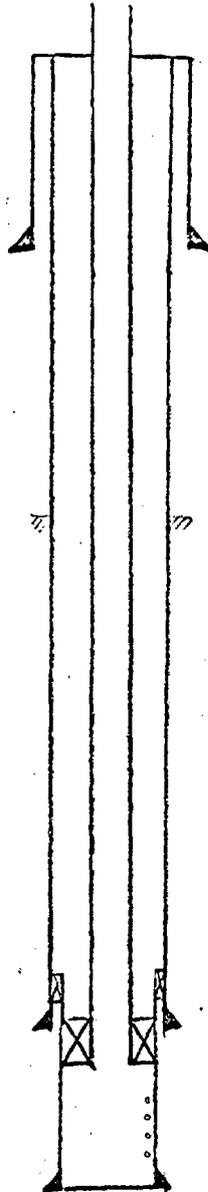
TD 3502'

KEEL "B" #1



* Theoretical Fillup

KEEL "B" #2



8-5/8" @ 515'
75 sks. (circ.)

Top of Cement 488' *
behind 7" csg.

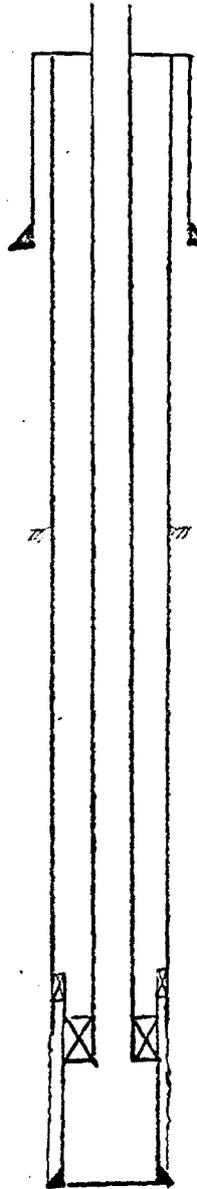
7" csg. @ 2848' w/100 sks.

2-3/8" tbg. & Baker Model "R"
Pkr. @ 2900'

Perf. Selectively 3000-3612'
4-1/2" OD Liner 2800-3612' Cemented.
TD 3612

* Theoretical Fillup

KEEL "B" #4



8-5/8" @ 536'
60 sks. (circ)

Cement Top @ 1700' behind
7" csg.

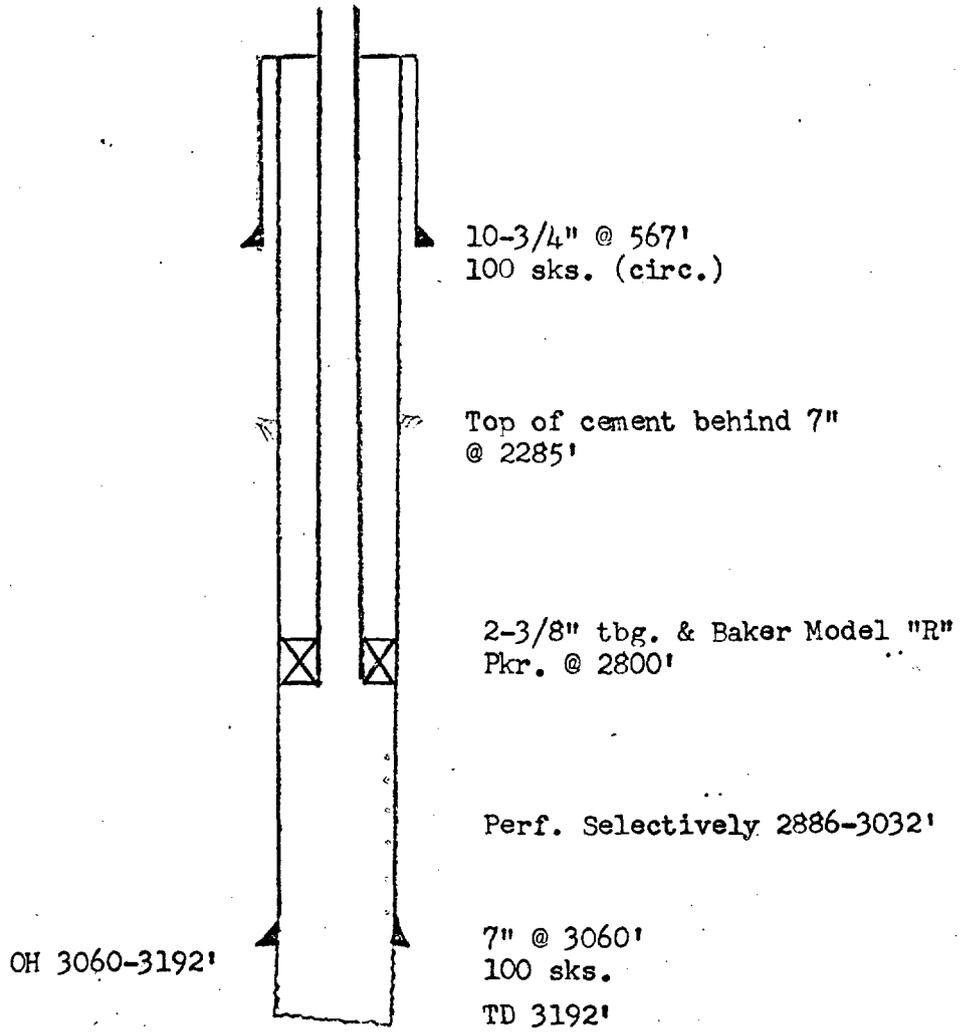
7" csg. @ 2897'
100 sks.

2-3/8" OD tbg. and Baker Model R
Pkr. @2930'

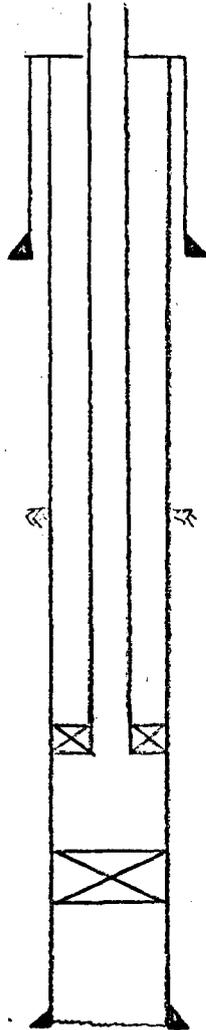
Perf. Selectively 3030-3720'

4-1/2" OD Liner fm. 2850-3730' Cemented
TD 3730'

KEEL "B" #25



WEST "B" #24



8-5/8" @ 815'
100 sks. (circ.)

Top of Cement 2963*

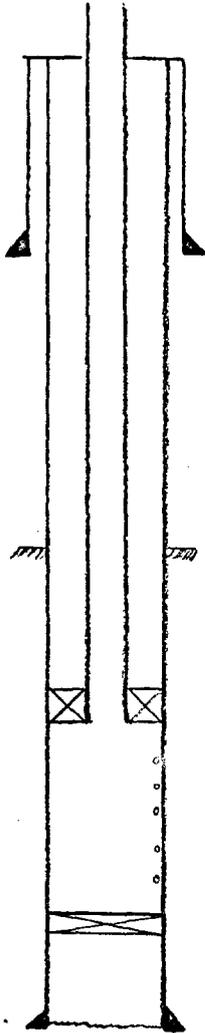
Perf. Selectively 3396-3560'
Baker Model "R" Pkr. &
2-3/8" tbg. @ 3514'

PBTD @ 3595'

5-1/2" @ 3604' TD
100 sks.

* Theoretical Fillup

WEST "B" #26



8-5/8" csg @ 845'
100 sks. (circ)

Corr. Top of Cement
by Survey @ 2810'

2-3/8" tbg. &
Baker Model "R" Pkr. @ 3300'

Perf. Selectively
3420-3600'

PBTD 3690' (CIBP @ 3690')

Perf. 3714-34'

4-1/2" @ 3757 TD 3757
100 sks.



SINCLAIR OIL & GAS COMPANY

P.O. Box 1920
Hobbs, New Mexico

RECEIVED
FEB 14 AM 8 05

February 11, 1966

Mr. A.L. Porter, Jr.
Secretary-Director
New Mexico Oil Conservation Commission
Santa Fe, New Mexico

Dear Sir:

In reference to our application of January 31, 1966, for approval of casing and tubing program on wells in the Keel-West Waterflood project, the State Engineer has requested additional information and clarification concerning our application.

Attached is our letter of explanation and corrected schematic diagrams of the injection wells which we have this date forwarded to the State Engineer.

Your consideration of this application is appreciated.

Yours truly,

W.F. Burns
Superintendent



SINCLAIR OIL & GAS COMPANY

P.O. Box 1920
Hobbs, New Mexico

MAIN OFFICE OCC

FEB 14 AM 8 05

February 11, 1966

Mr. S.E. Reynolds
State Engineer
Santa Fe, New Mexico

Dear Sir:

With reference to your letter of February 9, 1966, requesting additional information and clarification of our application of January 31, 1966, for approval of the tubing and casing program on wells in the Keel-West Waterflood, we wish to first apologize for the inconvenience this has caused your office and staff.

In answer to your question concerning the cement tops and determination thereof; these tops, with the exception of the cement top behind the producing string in the Keel "B" No. 4 and West "B" No. 26, were determined by personnel from another office. The information was previously shown on exhibits 4 and 5 in a hearing held before the Oil Conservation Commission on September 25, 1963. The case appeared on the docket as No. 2909. These exhibits also reflect the correct casing sizes of 8-5/8" and 7" casing on the Keel "A" No. 7 and Keel "B" No. 2. The cement top on the West "B" No. 26 was changed to more accurately reflect the well conditions and the Keel "B" No. 4's top was thru a typographical error. We again regret the omission of the asterisk and the attached schematics reflect the true conditions.

The remedial work on the Keel "A" No. 5 has not been completed. It is calculated that approximately 700 sacks will be required to circulate the cement to surface. If the cement does not circulate, we propose to pump cement behind the 2-7/8" casing from the surface. The remedial work on Keel "B" No. 2 and No. 4 has not started; however, we normally use from 100 to 150 sacks of cement depending on the caliper survey and hole condition. Sufficient cement is used to circulate around the top of the liners. After drilling out, the liner top is tested and resqueezed if necessary. In regards to the West "B" No. 24, again this was an error and should have been 3314' rather than 3514'.

We are forwarding corrected schematics, with copy of this letter, to the Secretary-Director of the New Mexico Oil Conservation Commission, and again request your approval of the casing and tubing program.

Yours truly,

W.F. Burns
Superintendent



MAIN OFFICE 000
FEB 23 AM 7:54

STATE OF NEW MEXICO

STATE ENGINEER OFFICE

SANTA FE

S. E. REYNOLDS
STATE ENGINEER

February 25, 1966

ADDRESS CORRESPONDENCE TO:
STATE CAPITOL
SANTA FE, NEW MEXICO 87501

Mr. A. L. Porter, Jr.
Secretary-Director
Oil Conservation Commission
Santa Fe, N. M.

Dear Mr. Porter:

Reference is made to my letter of January 31, 1966 pertaining to Sinclair's application in their Keel West waterflood project in the Jackson Grayburg pool which was addressed to Mr. Fred Burns, Superintendent. Further reference is made to Mr. Burns' reply dated February 11, 1966 which has attached to it new diagrammatic sketches of the wells involved. No copy of Mr. Burns' letter is indicated for you. If you desire a copy, I will be glad to reproduce it and forward it.

It appears that Mr. Burns' letter has answered my questions with reasonable satisfaction.

FEI/ma

cc-Mr. Fred Burns

Yours truly,

S. E. Reynolds
State Engineer

By:

A handwritten signature in cursive script, appearing to read "Frank E. Irby".

Frank E. Irby
Chief
Water Rights Div.