

CASE 5625: WALTER W. KRUG DBA
WALLEN PRODUCTION CO. FOR EXCEP-
TION TO ORDER R-111-A, LEA COUNTY

CASE NO.

5625

APPLICATION,
TRANSCRIPTS,
SMALL EXHIBITS,
ETC.

sid morrish reporting service
General Court Reporting Service
825 Calle Mejia, No. 122, Santa Fe, New Mexico 87501
Phone (505) 982-9212

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BEFORE THE
NEW MEXICO OIL CONSERVATION COMMISSION
Santa Fe, New Mexico
February 4, 1976

EXAMINER HEARING

IN THE MATTER OF:

Application of Walter W. Krug dba
Wallen Production Co. for an exception
to Order R-111-A, Lea County,
New Mexico.

CASE
5625

BEFORE: Richard L. Stamets, Examiner

TRANSCRIPT OF HEARING

A P P E A R A N C E S

For the New Mexico Oil
Conservation Commission:

William F. Carr, Esq.
Legal Counsel for the Commission
State Land Office Building
Santa Fe, New Mexico

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1 MR. STAMETS: We will call now Case 5625.

2 MR. CARR: Case 5625, application of Walter W. Krug
3 dba Wallen Production Company for an exception to Order R-111-A,
4 Lea County, New Mexico.

5 MR. STAMETS: Mr. Krug, I gather that you are
6 representing yourself in this case?

7 MR. KRUG: Yes, sir.

8 MR. STAMETS: And you are going to testify?

9 MR. KRUG: Yes, sir.

10 MR. STAMETS: I would like to have you stand and
11 be sworn.

12 (THEREUPON, the witness was duly sworn.)

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15 called as a witness, having been first duly sworn, was
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20 Q Mr. Krug, would you state your full name and position
21 for the record, please?

22 A Walter W. Krug, the engineer and owner of Wallen
23 Production Company.

24 Q Mr. Krug, have you previously testified before this
25 Commission and had your credentials made a matter of record?

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4 Q Would you please refer to your exhibit and explain
5 what you are seeking in this application?

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25 the four-and-a-half inch to preclude the cement dropping

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2 Q How far is this area that you are operating in
3 from the closest potash mining operation?

4 A This well here is sixteen miles, the other well is
5 fourteen.

6 MR. STAMETS: Are there any other questions of this
7 witness?

8 THE WITNESS: By the way, I do have the approval of
9 the people that have the potash rights.

10 Q (Mr. Carr continuing.) Mr. Krug, was this exhibit
11 prepared by you?

12 A Yes, it was.

13 Q Would you at this time like to offer it as having
14 been marked Exhibit Number One?

15 A I certainly would.

16 MR. STAMETS: The exhibit will be admitted into
17 evidence.

18 (THEREUPON, Applicant's Exhibit Number
19 One was admitted into evidence.)

20 MR. STAMETS: Any questions of the witness? He may
21 be excused.

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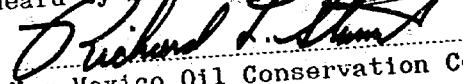
REPORTER'S CERTIFICATE

I, SIDNEY F. MORRISH, a Certified Shorthand Reporter,
do hereby certify that the foregoing and attached Transcript
of Hearing before the New Mexico Oil Conservation Commission
was reported by me, and the same is a true and correct record
of the said proceedings to the best of my knowledge, skill and
ability.


Sidney F. Morrish, C.S.R.

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General Court Reporting Service
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I do hereby certify that the foregoing is
a complete record of the proceedings in
the Examiner hearing of Case No. 5625
heard by me on 3-4-76, 1976.


Richard L. Stum, Examiner
New Mexico Oil Conservation Commission

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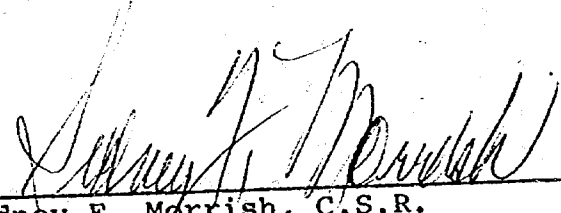
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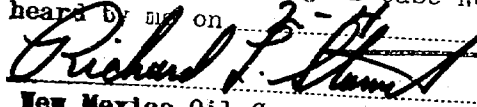
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Richard F. Starn, Examiner
New Mexico Oil Conservation Commission

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DIRECTOR
JOE D. RAMEY

OIL CONSERVATION COMMISSION

STATE OF NEW MEXICO
P. O. BOX 2088 - SANTA FE
87501

LAND COMMISSIONER
PHIL R. LUCERO
February 11, 1976



STATE GEOLOGIST
EMERY C. ARNOLD

Mr. Walter W. Krug
Box 1960
Midland, Texas 79701

Re: CASE NO. 5625
ORDER NO. R-5163

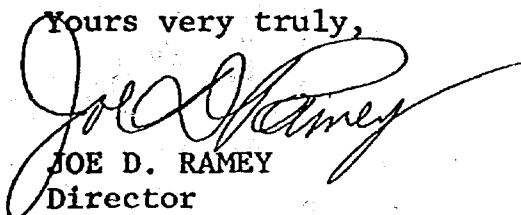
Applicant:

Walter W. Krug dba
Wallen Production Company

Dear Sir:

Enclosed herewith are two copies of the above-referenced Commission order recently entered in the subject case.

Yours very truly,


JOE D. RAMEY
Director

JDR/fd

Copy of order also sent to:

Hobbs OCC x
Artesia OCC _____
Aztec OCC _____

Other _____

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. 5625
Order No. R-5163

APPLICATION OF WALTER W. KRUG
dba WALLEN PRODUCTION COMPANY FOR
AN EXCEPTION TO ORDER NO. R-111-A,
LEA COUNTY, NEW MEXICO.

ORDER OF THE COMMISSION

BY THE COMMISSION:

This cause came on for hearing at 9 a.m. on February 4, 1976, at Santa Fe, New Mexico, before Examiner Richard L. Stamets.

NOW, on this 10th day of February, 1976, 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, Walter W. Krug dba Wallen Production Company, seeks an exception to the potash-oil area casing and cementing rules as set forth in Commission Order No. R-111-A for his Wallen Fee Well No. 1, located 330 feet from the North line and 990 feet from the West line of Section 28, Township 20 South, Range 34 East, Lea County, New Mexico.

(3) That the applicant proposes to set a 13-3/8 inch shallow "cavings" casing string at approximately 225 feet and cement same to the surface, to mud-in the 10 3/4-inch water shut-off casing string at approximately 900 feet, and to set the 7-inch salt protection string below the base of the salt and circulate cement to the surface whereupon the water shut-off casing string would be pulled, and, if production is obtained, to cement a 4 1/2-inch liner through the pay and back into the 7-inch casing.

(4) That potash development does not presently exist and is not presently known to be contemplated within the vicinity of the above-described Well No. 1.

-2-

Case No. 5625
Order No. R-5163

(5) That approval of the proposed special casing and cementing program for the subject well will afford the applicant the opportunity to produce his just and equitable share of the oil and gas under the subject lease, will prevent unnecessary economic loss, prevent waste, protect correlative rights, assure maximum conservation of oil, gas, and potash resources, and permit the economic recovery of oil, gas, and potash minerals within the Potash-Oil Area as defined by Order No. R-111-A.

IT IS THEREFORE ORDERED:

(1) That the applicant, Walter W. Krug dba Wallen Production Company, is hereby authorized to complete his Wallen Fee Well No. 1, located 330 feet from the North line and 990 feet from the West line of Section 28, Township 20 South, Range 34 East, NMPM, Lea County, New Mexico, by setting a 13 3/8-inch shallow "cavings" casing string at approximately 225 feet and cementing same to the surface, by mudding-in the 10 3/4-inch water shut-off casing string at approximately 900 feet, by setting the 7-inch salt protection string below the base of the salt and circulating cement to the surface and pulling the water shut-off casing string, and, if production is obtained, by cementing a 4 1/2-inch liner from total depth back into the 7-inch salt protection casing string.

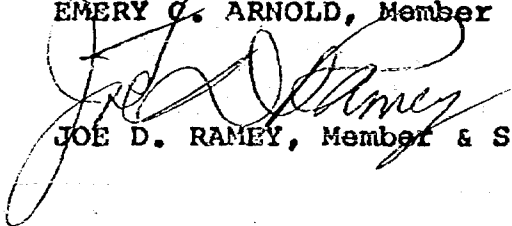
(2) That jurisdiction of this cause is retained for the entry of such further orders as the Commission may deem necessary.

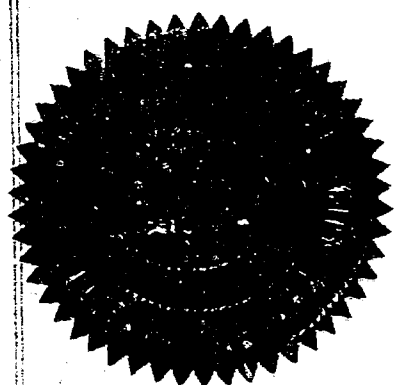
DONE at Santa Fe, New Mexico, on the day and year hereinabove designated.

STATE OF NEW MEXICO
OIL CONSERVATION COMMISSION

PHIL R. LUCERO, Chairman


EMERY C. ARNOLD, Member


JOE D. RAMEY, Member & Secretary

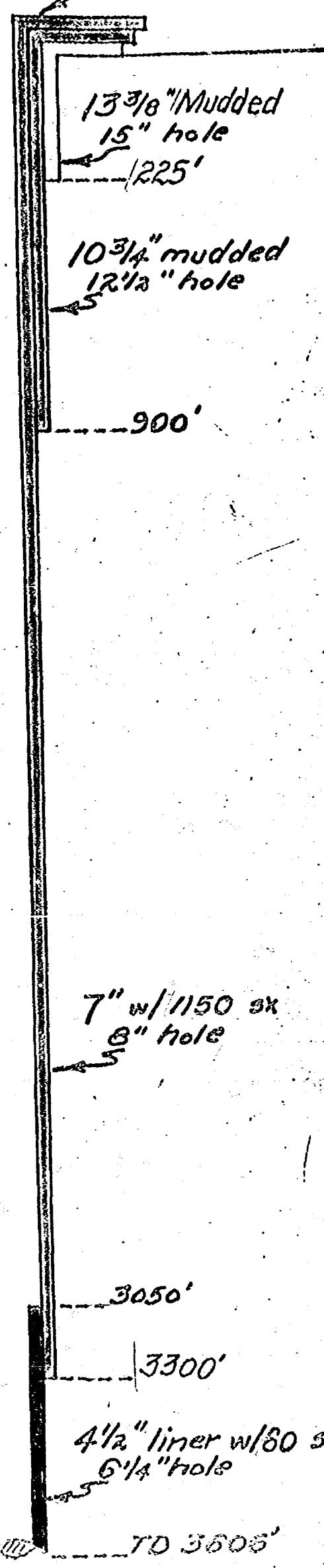
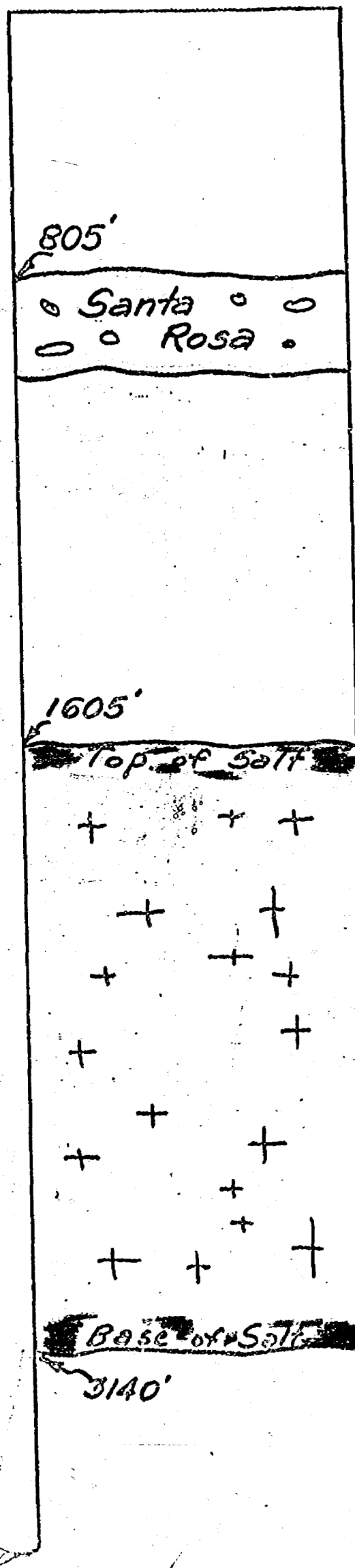
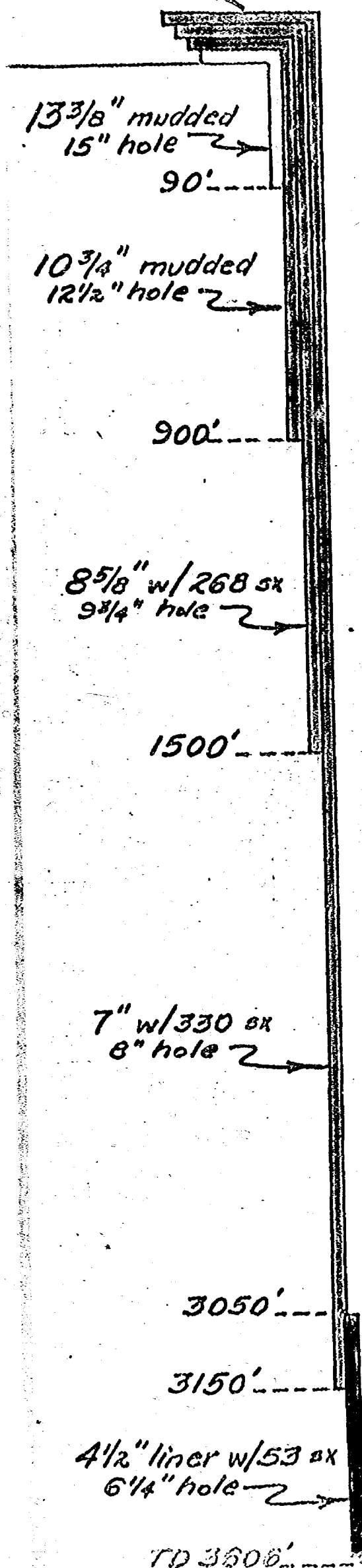

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dr/

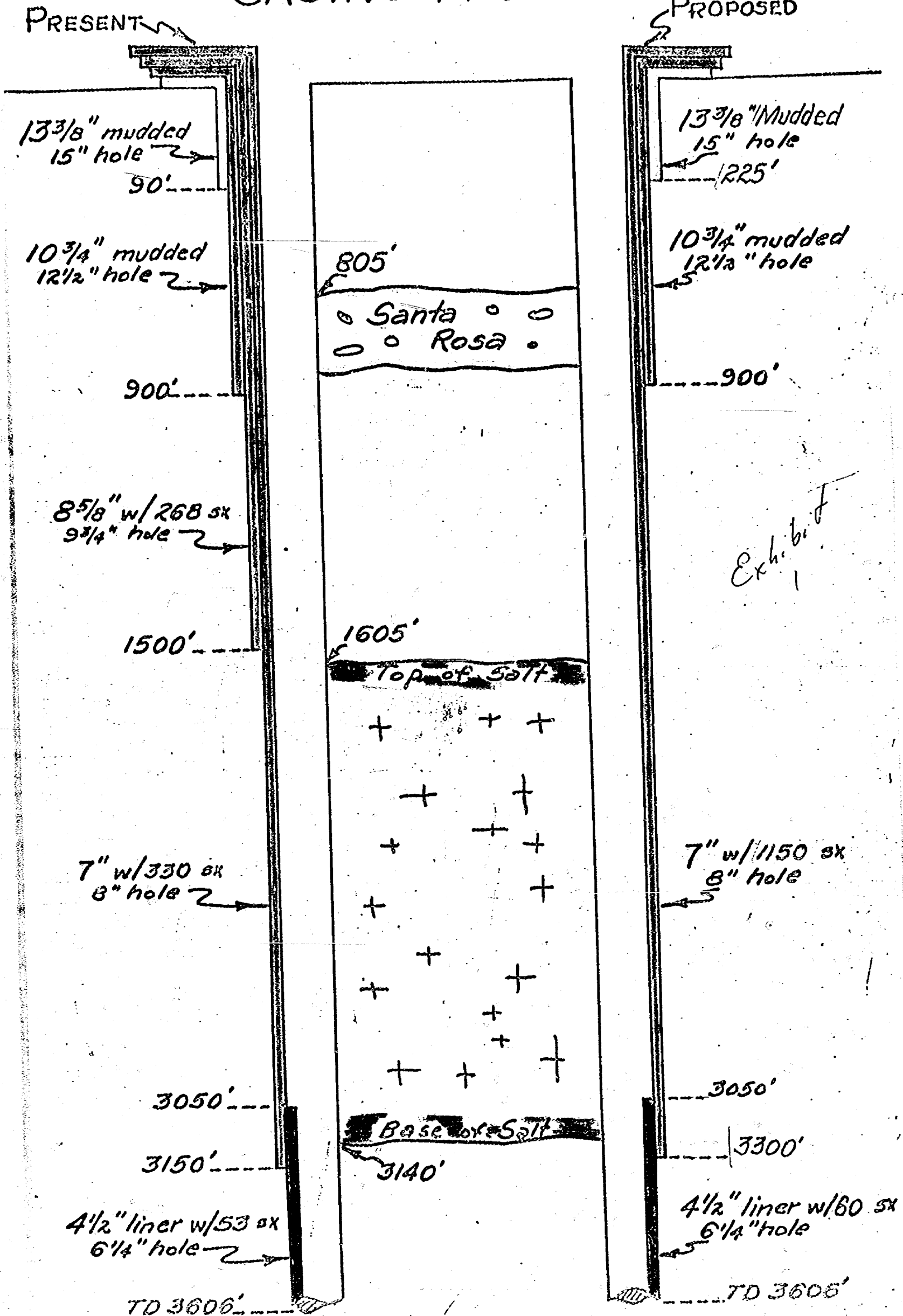
CASING PROGRAM

PRESENT

PROPOSED



CASING PROGRAM



Dockets Nos. 6-76 and 7-76 are tentatively set for hearing on February 18 and March 3, 1976. Applications for hearing must be filed at least 22 days in advance of hearing date.

DOCKET: EXAMINER HEARING - WEDNESDAY - FEBRUARY 4, 1976

9 A.M. - OIL CONSERVATION COMMISSION CONFERENCE ROOM,
STATE LAND OFFICE BUILDING - SANTA FE, NEW MEXICO

The following cases will be heard before Richard L. Starck, Examiner, or Daniel S. Nutter, Alternate Examiner:

CASE 5620: Application of Champlin Petroleum Company for a waterflood project, Roosevelt County, New Mexico. Applicant, in the above-styled cause, seeks authority to institute a waterflood project in the Chaveroo-San Andres Pool by the injection of water into the San Andres formation through its Farrell Federal Well No. 4, located in Unit P of Section 30, Township 7 South, Range 33 East, Roosevelt County, New Mexico. Applicant further seeks an administrative procedure for approval of additional wells at standard and non-standard locations within the project area.

CASE 5397: (Reopened)

In the matter of Case 5397 being reopened pursuant to the provisions of Order No. R-4949, which order established the North Burton Flats-Wolfcamp Gas Pool, Eddy County, New Mexico, and promulgated special pool rules therefor, including a provision for 320-acre spacing and proration units. All interested parties may appear and show cause why said special pool rules should or should not remain in effect.

CASE 5621: Application of El Paso Natural Gas Company for downhole commingling, Rio Arriba County, New Mexico. Applicant, in the above-styled cause, seeks approval to commingle Basin-Dakota and Blanco-Mesaverde gas production in the wellbore of its Jicarilla 119N Well No. 4, located in Unit H of Section 6, Township 26 North, Range 4 West, Rio Arriba County, New Mexico.

CASE 5622: Application of Texaco for determination of charges and costs, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks the determination by the Commission of reasonable well costs, and the applicability of the charge for risk to certain items of expense, for the William G. Ross A. Q. Rogers Well No. 1, located in Unit P of Section 3, Township 18 South, Range 26 East, Eddy County, New Mexico, to which is dedicated the E/2 of said Section 3, said lands having been pooled by Commission Order No. R-4980.

CASE 5623: Application of Amoco Production Company for salt water disposal, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks authority to dispose of produced water by injection into the Lower Delaware formation through the perforated interval from 3376 to 3400 feet in its Old Indian Draw Well No. 4, located in Unit I of Section 18, Township 22 South, Range 28 East, Indian Draw-Delaware Pool, Eddy County, New Mexico.

CASE 5624: Application of Harris & Walton for salt water disposal, Lea County, New Mexico. Applicant, in the above-styled cause, seeks authority to dispose of produced water into the Yates-Seven Rivers formation through the open-hole interval from 3507 feet to 3761 feet in its H. Whitten Well No. 1, located in Unit C of Section 4, Township 24 South, Range 36 East, Jalmat Pool, Lea County, New Mexico.

CASE 5625: Application of Walter W. Krug dba Wallen Production Co. for an exception to Order R-111-A, Lea County, New Mexico. Applicant, in the above-styled cause, seeks an exception to the Potash-Oil Area casing-cementing rules for his Wallen Fee Well No. 1, located 330 feet from the North line and 990 feet from the West line of Section 28, Township 20 South, Range 34 East, Lea County, New Mexico, to permit completing said well with a shallow-cavings string cemented in and with 7-inch production casing to the top of the pay and a 4 1/2-inch liner through the pay, all cemented to the surface.

CASE 5626: Southeastern New Mexico nomenclature case calling for an order for the creation, abolishment, and extension of certain pools in Eddy and Lea Counties, New Mexico.

(a) CREATE a new pool in Eddy County, New Mexico, classified as a gas pool for Strawn production and designated as the Carlsbad-Strawn Gas Pool. The discovery well is the Belco Petroleum Corporation Union Mead Com Well No. 1, located in Unit H of Section 8, Township 22 South, Range 27 East, NNPM. Said pool would comprise:

TOWNSHIP 22 SOUTH, RANGE 27 EAST, NNPM
Section 8: All
Section 17: N/2

(b) CREATE a new pool in Eddy County, New Mexico, classified as a gas pool for Morrow production and designated as the East Carlsbad-Morrow Gas Pool. The discovery well is the Champlin Petroleum Company Pecos Federal Well No. 1, located in Unit C of Section 1, Township 22 South, Range 27 East, NNPM. Said pool would comprise:

TOWNSHIP 21 SOUTH, RANGE 27 EAST, NNPM
Section 35: All
Section 36: W/2

TOWNSHIP 22 SOUTH, RANGE 27 EAST, NMPM
Section 1: N/2
Section 2: N/2

(c) CREATE a new pool in Eddy County, New Mexico, classified as a gas pool for Strawn production and designated as the East Carlsbad-Strawn Gas Pool. The discovery well is the Champlin Petroleum Company Pecos Federal Well No. 1, located in Unit C of Section 1, Township 22 South, Range 27 East, NMPM. Said pool would comprise:

TOWNSHIP 22 SOUTH, RANGE 27 EAST, NMPM
Section 1: N/2

(d) CREATE a new pool in Eddy County, New Mexico, classified as a gas pool for Strawn production and designated as the La Puerta-Strawn Gas Pool. The discovery well is the Cities Service Oil Company Tracy A Com Well No. 1, located in Unit C of Section 33, Township 21 South, Range 27 East, NMPM. Said pool would comprise:

TOWNSHIP 21 SOUTH, RANGE 27 EAST, NMPM
Section 33: N/2

(e) CREATE a new pool in Lea County, New Mexico, classified as an oil pool for Pennsylvanian production and designated as the Nonombre-Pennsylvanian Pool. Said pool would consolidate the vertical limits and acreage of the abolished Nonombre Lower-Pennsylvanian, Nonombre Middle-Pennsylvanian and the Nonombre Upper-Pennsylvanian Pools. New pool to be governed by the rules of the abolished Nonombre Lower-Pennsylvanian Pool under Order R-2929. Said pool would comprise:

TOWNSHIP 13 SOUTH, RANGE 34 EAST, NMPM
Section 32: All

(f) CREATE a new pool in Eddy County, New Mexico, classified as a gas pool for Morrow production and designated as the Robinia Draw-Morrow Gas Pool. The discovery well is the American Quasar Petroleum Company of New Mexico Robinia Draw Unit Well No. 1, located in Unit K of Section 7, Township 23 South, Range 24 East, NMPM. Said pool would comprise:

TOWNSHIP 23 SOUTH, RANGE 24 EAST, NMPM
Section 7: W/2

(g) CREATE a new pool in Lea County, New Mexico, classified as an oil pool for Pennsylvanian production and designated as the North Samual-Pennsylvanian Pool. The discovery well is the Dalco Oil Company Bell 17 State Well No. 1, located in Unit G of Section 17, Township 16 South, Range 33 East, NMPM. Said pool would comprise:

TOWNSHIP 16 SOUTH, RANGE 33 EAST, NMPM
Section 17: NE/4

(h) ABOLISH the Nonombre Lower Pennsylvanian Pool in Lea County, New Mexico, described as:

TOWNSHIP 13 SOUTH, RANGE 34 EAST, NMPM
Section 32: SW/4

(i) ABOLISH the Nonombre Middle-Pennsylvanian Pool in Lea County, New Mexico, described as:

TOWNSHIP 13 SOUTH, RANGE 34 EAST, NMPM
Section 32: E/2 NW/4 and W/2 NE/4

(j) ABOLISH the Nonombre Upper-Pennsylvanian Pool in Lea County, New Mexico, described as:

TOWNSHIP 13 SOUTH, RANGE 34 EAST, NMPM
Section 32: E/2 and SW/4

(k) EXTEND the North Benson Queen-Grayburg Pool in Eddy County, New Mexico, to include therein:

TOWNSHIP 18 SOUTH, RANGE 30 EAST, NMPM
Section 32: S/2 NE/4 and NW/4 SW/4

(l) EXTEND the Burton Flat-Morrow Gas Pool in Eddy County, New Mexico, to include therein:

TOWNSHIP 21 SOUTH, RANGE 26 EAST, NMPM
Section 12: S/2
Section 13: E/2

TOWNSHIP 21 SOUTH, RANGE 27 EAST, NMPM
Section 2: lots 11, 12, 13, 14 & SW/4
Section 15, 16, 21, 22, & 33: All
Section 33: N/2

- (m) EXTEND the Burton Flat-Strawn Gas Pool in Eddy County, New Mexico, to include therein:

TOWNSHIP 21 SOUTH, RANGE 27 EAST, NMPM
Section 15: All

- (n) EXTEND the South Carlsbad-Morrow Gas Pool in Eddy County, New Mexico, to include therein:

TOWNSHIP 22 SOUTH, RANGE 27 EAST, NMPM
Section 3: N/2
Section 4: All
Section 5: E/2
Sections 8, 9, 17 & 18: All
Section 20: W/2

- (o) EXTEND the Eagle Creek-San Andres Pool in Eddy County, New Mexico, to include therein:

TOWNSHIP 17 SOUTH, RANGE 25 EAST, NMPM
Section 13: N/2 NW/4

- (p) EXTEND the Eumont Gas Pool in Lea County, New Mexico, to include therein:

TOWNSHIP 21 SOUTH, RANGE 37 EAST, NMPM
Section 33: NW/4 and SW/4 NE/4

- (q) EXTEND the Los Medanos-Morrow Gas Pool in Eddy County, New Mexico, to include therein:

TOWNSHIP 23 SOUTH, RANGE 31 EAST, NMPM
Section 6: E/2

- (r) EXTEND the Lovington-Paddock Pool in Lea County, New Mexico, to include therein:

TOWNSHIP 17 SOUTH, RANGE 37 EAST, NMPM
Section 3: NW/4
Section 4: NE/4

- (s) EXTEND the North Vaca-Morro Pool in Lea County, New Mexico, to include therein:

TOWNSHIP 16 SOUTH, RANGE 34 EAST, NMPM
Section 36: SE/4

TOWNSHIP 17 SOUTH, RANGE 34 EAST, NMPM
Section 9: SE/4

- (t) EXTEND the Vada-Pennsylvanian Pool in Lea County, New Mexico, to include therein:

TOWNSHIP 9 SOUTH, RANGE 33 EAST, NMPM
Section 11: E/2

- (u) EXTEND the Wantz-Granite Wash Pool in Lea County, New Mexico, to include therein:

TOWNSHIP 22 SOUTH, RANGE 37 EAST, NMPM
Section 14: NE/4

- (v) CONTRACT the Indian Basin-Morrow Gas Pool in Eddy County, New Mexico, by the deletion of the following described lands:

TOWNSHIP 20 SOUTH, RANGE 25 EAST, NMPM
Sections 31 & 32: All

TOWNSHIP 21 SOUTH, RANGE 24 EAST, NMPM
Sections 4 & 5: All

- (w) EXTEND the Cemetary-Morrow Gas Pool in Eddy County, New Mexico, to include the following described lands:

TOWNSHIP 20 SOUTH, RANGE 25 EAST, NMPM
Section 31: All
Section 32: W/2

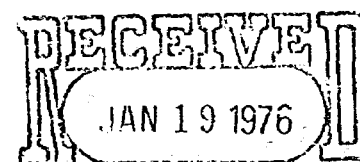
TOWNSHIP 21 SOUTH, RANGE 24 EAST, NMPM
Sections 4 & 5: All

OFFICE PHONE
A/C 915 683-2600
A/C 915 683-6526

HOME PHONE
A/C 915 563-0048

WALTER W. KRUG
BOX 1960
MIDLAND, TEXAS 79701

January 15, 1976



OIL CONSERVATION COMM.
Santa Fe

New Mexico Oil Conservation Commssion
P. O. Box 2088
Santa Fe, New Mexico 87501
Attn: Mr D. S. Nutter

*Application
Case
5625*

Re: Request for deviation from
casing program as stated
in R-111-A.
Wallen Fee # 1, 330 FNL and
990 FWL, Section 28, T 20 S,
R 34 E, Lea County, New
Mexico.

Dear Sir:

I would like you to consider this letter as a request for your approval in changing the piping program covering the 1500' of 8 5/8' surface pipe, cemented to the surface and 3150' of 7" intermediate string, tacked with 50 sacks of cement. I would like to leave out the 1500' of 8 5/8' surface and cement the 3300' of 7" intermediate pipe to the surface of the ground instead. This way, I will have the intermediate pipe cemented to the surface (before drilling into the pay zone) and can set a 4 1/2" liner in a 6 1/4" hole, with adequate cement, to total depth.

You will note this will fully protect the salt section (the nearest salt mining is over 16 miles away), which is as it should be and at the same time give me good control and decent cement for completing my well, both with the minimum of risk. Also, it allows me one more water shut off string, which I may need.

I hope this request will meet with your approval and that you will favor me with an early reply.

Very truly yours,

Walter W. Krug
Walter W. Krug

WK/hk
certified mail, return card
cc: Mr Jerry Sexton, Supervisor
New Mexico Oil Conservation Commssion

DOCKET MAILED

Date 1/26/76

*This case was originally applied for by Mr Krug
over the telephone to DSN.*

DRAFT

dr/

(Handwritten initials)

Please Expedite

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:

Wk
CASE NO. 5625

Order No. R-5163

APPLICATION OF WALTER W. KRUG
dba WALLEN PRODUCTION COMPANY FOR
AN EXCEPTION TO ORDER NO. R-111-A,
LEA COUNTY, NEW MEXICO.

ORDER OF THE COMMISSION

BY THE COMMISSION:

This cause came on for hearing at 9 a.m. on February 4,
19 76, at Santa Fe, New Mexico, before Examiner Richard L. Stamets.

NOW, on this day of February, 19 76, 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, Walter W. Krug dba Wallen Produc-
tion Company, seeks an exception to the potash-oil area casing
and cementing rules as set forth in Commission Order No. R-111-A
for his Wallen Fee Well No. 1, located 330 feet from the North
line and 990 feet from the West line of Section 28, Township 20
South, Range 34 East, ~~North Lynch Yates-Sevens Rivers Pool~~, Lea
County, New Mexico.

(3) That the applicant proposes to set a 13 3/8 inch shallow
"cavings" casing string at approximately 225 feet and cement
same to the surface; to mud-in the 10 3/4 inch water
shut-off casing string at approximately 900 feet, and to
set the salt protection string below the base of the salt and
circulate cement to the surface whereupon the water shut-off
casing string would be pulled, and, if production is ob-
tained, to cement a 4 1/2 line through the pay, and back into the 7-inch

(3) That the applicant ^{to} proposes ~~completing~~ ^{stand} said well with a shallow "cavings" string cemented ^{at approximately 900 feet} in and with 7-inch production casing to the top of the pay and a 4 1/2-inch liner through the pay, all cemented to the surface.

(4) That potash development does not presently exist and is not presently known to be contemplated within the vicinity of the above-described Well No. 1.

(5) That approval of the proposed special casing and cementing program for the subject well will afford the applicant ~~and others~~ the opportunity to produce ^{his} ~~their~~ just and equitable share of the oil and gas ^{under} ~~in~~ the subject ^{least well} ~~pool~~ will prevent unnecessary economic loss, prevent waste, protect correlative rights, assure maximum conservation of oil, gas, and potash resources, and permit the economic recovery of oil, gas, and potash minerals within the Potash-Oil Area as defined by Order No. R-111-A.

IT IS THEREFORE ORDERED:

(1) That the applicant, Walter W. Krug dba Wallen Production Company, is hereby authorized to complete his Wallen Fee Well No. 1, located 330 feet from the North line and 990 feet from the West line of Section 28, Township 20 South, Range 34 East, NMPM, ~~North Lynch Yates Seven Rivers Pool, Lea County, New Mexico, in~~ accordance with the above-described casing and cementing procedure.

(2) 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.

^{13 3/8-inch}
by setting a shallow "cavings" casing string at approximately 225 feet and cementing ^{same} to the surface, by mudding in the 10 3/4-inch water shut-off casing string at approximately 900 feet, by setting the 7-inch salt protection string below the base of the salt and circulating cement to the surface, pulling the water shut-off casing string, and, if production is obtained, by cementing a 4 1/2-inch liner from total depth back into the 7-inch salt protection casing string.