Case Number

Application Transcripts.

Small Exhibits

T / C

SPECIALIZING IN: DEPOSITIONS, HEARINGS, STATEMENTS. EXPERT TESTIMONY, DAILY COPY, CONVENTIONS

1120 SIMMS BIDG. • P. C. BOX 1092 • PHONE 243-6691 • ALBUQUERQUE, NEW MEXICO

BEFORE THE NEW MEXICO OIL CONSERVATION COMMISSION Santa Fe. New Mexico November 25, 1969

EXAMINER HEARING

IN THE MATTER OF:

Application of Byron McKnight for) Case No. 4270 an exception to Order No. R-111-A,) Lea County, New Mexico.

BEFORE: Elvis A. Utz, Examiner.

TRANSCRIPT OF HEARING



MR. UTZ: Case 4270.

MR. HATCH: Case 4270. Application of Byron McKnight for an exception to Order No. R-111-A, Lea County, New Mexico.

MR. LOSEE: Mr. Examiner, A. J. Losee of Artesia, representing the Applicant, I have one witness, the Applicant, Mr. McKnight.

(Witness sworn).

(Whereupon, Applicant's Exhibits 1 through 5 were marked for identification.)

BYRON McKNIGHT

called as a witness, having been first duly sworn, was examined and testified as follows:

DIRECT EXAMINATION

BY MR. LOSEE:

- Ω State your name.
- A Byron McKnight.
- 0 What is your occupation?
- A I am a petroleum geologist.
- Q And you are located where?
- A Hobbs, New Mexico.
- Q You have not previously testified before this

Commission?

- A That's right.
- Q Where did you obtain your higher education?
- A At the University of Texas, Austin, Texas.
- 0 What degrees did you obtain?
- A A BS in geology.
- Q And what year?
- A In '57.
- Q Since your graduation from school, have you attended any seminars or work programs?
- A Yes, sir. I was employed by Humble Oil and Refining Company for ten years, and I attended several in conjunction with that.
- Q What subjects were covered in some of those seminars?
- A Carbonates catigraphy. interpretation of electric logs and related subjects.
- O Since your graduation from Texas University, what has been your employment?
- A I worked for Humble for ten years, in the last two and a half years I have been independent in Hobbs, New Mexico.
 - O During the ten years you were with Humble, what

position or positions did you hold?

A Well, I was evaluation geologist for six years, production geologist for two, and an exploration geologist for two.

- Q During any portion of this time, was your work in southeast New Mexico?
 - A Yes, sir, four years of it.
- Q And since you left Humble, you have been an independent petroleum geologist?
 - A Yes, sir.

MR. LOSEE: Are Mr. McKnight's qualifications acceptable?

MR. UTZ: Yes, they are. And, let me at this time ask for any other appearances in this case. You may proceed.

- Q (By Mr. Losee) Would you state, briefly, the purpose of this application, Mr. McKnight?
- A Yes, sir. We are seeking to amend the R-111-A ruling, which requires setting two strings of pipe; one into the Rustler and one into the salt section of the potash area, so designated in southeast New Mexico, and we would like to amend that to set only three hundred feet of pipe.

And then, set one long string proudction.

- O Now, that's for the two wells that you propose to drill in the potash oil area?
 - A Yes, sir.
- One in the southeast of the quarter of the northeast quarter of Section 26, 1933, and the other in the southwest southeast of said Section 26: is that correct?
 - A Yes, sir.
- O Now, what depth is projected for these two wells, Mr. McKnight?
- A Thirty-eight hundred feet bottoming in the Seven Rivers Formation.
- Q Actually, the outer boundaries of the potash oil areas is located nearly a mile north of these wells; is it not?
 - A That's true.
- O Now, the potash lease owners in the area of these two locations are what persons or company? Is it Potash Company of America, Dan Harroun?
 - A Yes, sir.
- Q Now, have Mr. Harroun and PCA been furnished copies of your plat, notice of intention to drill these wells?
 - A Yes, they have, quite a few weeks ago.

- O And that was on November third of 1969?
- A Yes, sir.
- Q Now, please refer to what has been marked as Exhibit 1 and explain what is shown by this exhibit.

A Well, this plat indicates the proposed location of the two test wells. It also indicates the oil and gas lease ownership of the adjacent section of land.

And it also indicates the proximity to the present production.

- Now, in this area PCA's only lease within a mile of the outer boundaries of the proposed locations is their lease that embraces the north half of Section 36?
 - A Yes, that's true.
- Q And although Mr. Harroun has not filed with the Commission, a list of his holdings, he, from your information, holds the remaining leases within a mile of these proposed locations?
 - A Yes, sir.
- O Please refer to what has been marked as Exhibit 2, being your notice of intention to drill the Ann No. 1 Well, and first, let me ask you if this is the copy of the notice of intention that was sent to the potash operators?
 - A Yes, it is.

Would you briefly set out the casing program
 and the cementing program proposed?

A Yes. It is proposed that we set eight and fiveeighths inch casing, to three hundred feet, and circulate the cement.

And then, it is proposed that in the event of production, we set seven and seven-eighths inch casing -- I'm sorry, I mean four and a half inch casing, to thirty-eight hundred feet, and also circulate the cement.

- Ω Now, is that casing program in deviation of the requirements of R-111-A?
 - A Yes, sir, it is.
 - Q To what extent?

A Well, R-111-A states that the pipe be set into the Rustler Formation above the salt, to the red beds Rustler Formation, above the salt and also a protective string of pipe be set through the salt section.

- Q And to that extent, your proposed casing program is in deviation?
 - A It is in deviation, yes.
- O Please refer to what has been marked as --- I'm sorry -- you talked about your surface casing. Would your long string be demonted and circulated to the surface?

- A Yes, it would.
- Now, please refer to what has been marked as Exhibit 2-A, being the notice of intention on the No. 1 well, southwest of the northeast of 26, and explain that casing program.
- A The casing program for the A lease would be precisely the same as for the other lease, and would thereby have the same deviation from the rule.
- O Now, is that a copy of the notice of intention that was furnished to PCA and Mr. Harroun?
 - A Yes, sir, it is.
- O Have you discussed this casing program with the USGS?
- A Yes, sir, we have. In their Hobbs office and have obtained from them verbal and tentative agreement with the program.
- Q These are federal leases upon which these two wells are located?
 - A Yes, sir, it is.
- O Please refer to what has been marked as Exhibit C, being a log of the well and the area and explain the location of this well.
 - A The log in this exhibit is the one -- the well

drilled by Pan American Petroleum Corporation in the southwest quarter of Section 26 -- it was a discovery well for Yates Oil Field.

Q When was it drilled?

A It was drilled in 1969 -- in the second quarter of 1968.

Q All right. What is shown by this portion of the log?

A Well, reportedly, from the information that we have, the fact that this well was located within the potash area was overlooked by both the USGS and the operator, and the well was at total depth before this oversight was -- came to be noticed.

And so, there wasn't much to do, except go ahead and complete it, with a conditional program -- they did set two hundred and seventy-five feet of pipe.

O Do you have that on another exhibit?

A Yes.

O Why don't you tell me from this log what is shown with respect to the same hole?

A Well, it shows that the base of the salt is located approximately 2908, and the top of the eighth formation is located — it is thirty-one ten — the top

of the pay zone in this particular well, in the lower Yates, is thirty-three --- thirty-three fifty.

This well did not penetrate the Seven Rivers Formation.

- Now, although not shown on this log, have you checked the reported top of the anhydrate?
- A Yes, sir. It's approximately fifteen hundred feet -- thirteen hundred feet, I'm sorry.
 - Q And the top of the anhydrate is at --
 - A Is at about thirteen hundred feet.
 - Now, what is the reported top of the salt?
 - A About fifteen hundred feet.
- Q Please refer to what has been marked as Exhibit
 4, being the diagrammatic sketch of the casing program on
 the Pan American completion and explain what casing program
 and dementing program was utilized in that well.
- A Well, Pan American set eight and five-eighths inch casing at two hundred and seventy-five feet, the reported number of sacks of cement used was one hundred and seventy-five, which may or may not have circulated the cement -- I don't have that data.

After an indication of commercial hydrocarbon, they set five and a half inch casing to thirty-three ninety-seven feet and did circulate the cement.

O Please refer to what has been marked Exhibit 4-A, being a similar diagrammatic sketch of your casing and cementing program proposed on the No. 1 Ann and the No. 1 Ann-A ---

A It is proposed that we set eight and fiveeighths inch casing to a depth of three hundred feet, and circulate the cement.

In the event of production, it is proposed that we set either four and a half or five and a half inch casing to the --- in the end of pay zone at an adequate depth to produce the well.

It would be thirty-eight hundred feet or less.

Q Mr. McKnight, from your study of the geology in the area, do you know whether there is any commercial potash in the immediate area?

A Not to my knowledge — it would seem that with the number of holes that have been drilled through there, also several exploratory tests for potash, that there is not.

Do you have an opinion as to whether this proposed casing and cementing program in your two wells will prevent the waste of potash deposits and not constitute a hazard to the potash, if any, in the area? A I don't see that it would constitute any hazard to the potash deposits, if they do exist, other than as being — the hazard that has been created by the other wells that have been drilled in that area.

O Do you have an opinion as to whether the approval of this application will prevent waste of hydrocarbons that might otherwise not be recovered?

A Yes, it would prevent such waste, in that making the wells more economic to drill and complete, we can afford to drill more wells.

Q Have you received copies of letters from PCA and from Mr. Harroun, with respect to these proposed wells and the proposed casing program?

 Λ Yes, sir, we have received letters from both, indicating their approval of this program.

MR. LOSEE: May I inquire of the Examiner if the files of the Commission reflect the existence of these letters?

MR. UTZ: Yes, sir. the Harroun letter --- that's all.

MR. LOSEE: Well, vou ought to have a copy of a letter -- Mr. H. N. Clark, vice-president, PCA, dated Movember 10, and it shows a copy to Mr. Porter, Mr. Anders

and Mr. Fulton.

O (By Mr. Losee) Let me ask you, Mr. McKnight, to read this letter into the record.

A Yes. This letter is addressed to Mr. A. J.

Losee, Esquire, Drawer 239, Artesia, New Mexico, 88210,

reference Byron McKnight, Ann No. 1 and Ann A No. 1 wells,

Lea County, New Mexico.

"Dear Sir -- this will advise you that we do not intend to file a formal protest to Mr. McKnight's proposal to drill oil and gas test wells, as noted above in the southeast quarter, northeast quarter and the southwest quarter, northeast quarter of Section 26, Township 19 South, Range 33 East, Lea County. Signed by H. N. Clark, Vice-president."

MR. LOSEE: We would offer that letter in evidence, Mr. Examiner.

Q (By Mr. Losee) Both of these wells are located on Federal Oil and Gas Leases, which will expire at midnight on November 30, 1969: is that correct?

A Yes. sir.

O And under the terms of your farm-out from Pan American Petroleum Corporation, you have to be drilling on the first of these wells on November 29?

- A That's correct.
- O That's this Saturday; is it not?
- A That's right.
- Q And as result of this short fuse, do you request the Examiner to, if possible, to give you oral approval of the deviation of the casing program?
 - A Yes, sir; that would be very helpful.
- Q And were Exhibits 1, 2, 2-A, 3, 4 and 4-A prepared by you, and Exhibit 5 received by your attorney?
 - A Yes, sir.
- MR. LOSEE: We move the introduction of Exhibits 1 through 5.
- MR. UTZ: Without objection, Exhibits 1 through 5 will be entered into the record of this case.

CROSS EXAMINATION

BY MR. UTZ:

- Q Mr. McKnight, how do you propose to drill through the anhydrate and salt sections?
- A We propose to use a saturated brine, thereby not causing excessive hole enlargement through the salt sections.
- Q That would be from about thirteen hundred feet down: is that correct?

A We would use the brine to the total depth; yes, sir.

The salt section itself, of course, would create its own brine, after we drilled it to it.

- Q Of course, that's what you want --
- A Right.
- O -- a salt saturated solution when you go through the salt section?
 - A Yes, sir.
- O Is there any other wells in the potash area that have been drilled in the manner you propose?
- A Yes, quite a few -- all of the ones that were drilled prior to the existence of the rule, which we seek an exception of, were all drilled with no regard for the potash at all.

MR. UTZ: Any other questions of the witness?
The witness may be exucsed.

(Witness excused).

MR. UTZ: Statements in this case? The case will be taken under advisement.

Mr. Losee, we will try to let you know tomorrow.

I wouldn't want to say, yes. right here -- we will have
to have a consultation.

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EXEIBITS

Applicant's Exhibits 1 through 5

STATE OF NEW MEXICO)
) ss
COUNTY OF BERNALILLO)

I, CA FENLEY, Court Reporter in and for the County of Bernalillo, State of New Mexico, do hereby certify that the foregoing and attached Transcript of Hearing before the New Mexico Oil Conservation Commission was reported by me; and that the same is a true and correct record of the said proceedings to the best of my knowledge, skill and ability.

Court Reporter

to hereby certify that the foregoing is a complete record of the succession in the Exeminer hearing of Case he. 19.69.

The lexico Oil Conservation Constants



OIL CONSERVATION COMMISSION

STATE OF NEW MEXICO P. O. BOX 2008 - SANTA PE GOVERNOR DAVID F. CARGO CHAIRMAN

LAND COMMISSIONER ALEX J. ARMIJO MEMBER

STATE GROLOGIST A. L. PORTER, JR. SECRETARY - DIRECTOR

December 2, 1969

| Mr. A. J. Losee Attorney at Law Post Office Box 239 Artesia, New Mexico 88210 | Re: Case No. 4270 Order No. R-3887 Applicant: Byron McKnight |
|--|--|
| Dear Sir: | |
| Enclosed herewith are two copies sion order recently entered in t | |
| A. | L. PORTER, Jr. cretary-Director |
| ALP/ir | |
| 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. 4270 Order No. R-3887

APPLICATION OF BYRON MCKNIGHT 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 November 25, 1969, at Santa Fe, New Mexico, before Examiner Elvis A. Utz.

NOW, on this 2nd day of December, 1969, 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, Byron McKnight, seeks authority to drill two exploratory wells at standard locations in the SW/4 NE/4 and in the SE/4 NE/4 of Section 26, Township 19 South, Range 33 East, NMPM, adjacent to the East Gem-Yates Pool, Lea County, New Mexico, said area being situated in the Potash-Oil Area governed by Commission Order No. R-111-A.
- (3) That the applicant also seeks approval of the special cementing and casing program for the subject wells as an exception to the casing and cementing rules prescribed for the Potash-Oil Area by said Order No. R-111-A.

-2-CASE No. 4270 Order No. R-3887

- (4) That potash development does not presently exist and is not presently known to be contemplated within the vicinity of the proposed wells.
- (5) That approval of the proposed special casing and cementing program for the subject wells will prevent waste and protect correlative rights.

IT IS THEREFORE ORDERED:

(1) That the applicant, Byron McKnight, is hereby authorized to drill two exploratory wells at standard locations in Section 26, Township 19 South, Range 33 East, NMPM, adjacent to the East Gen-Yates Pool, Lea County, New Mexico, as follows:

Byron McKnight Ann "A" Well No. 1, to be located 1980 feet from the North line and 660 feet from the East line;

Byron McKnight Ann Well No. 1, to be located 1980 feet from the North line and 1980 feet from the Bast line.

(2) That as an exception to the provisions of Order No. R-111-A, the applicant is hereby authorized to complete and abandon the aforesaid two wells as follows:

CASING, CEMENTING, AND ABANDONMENT PROCEDURE

- 1. Surface Casing String:
 - (a) Applicant shall set 8 5/8-inch new oil field casing at a depth of 300 feet below the surface or deeper if necessary to protect any potable water. Cement shall be circulated back to the surface.
 - (b) Cement shall set a minimum of 24 hours before drilling the plug or instituting tests.
- 2. Salt Protection Casing String:

In lieu of utilizing a salt protection string the operator shall, while drilling the salt

section, employ a drilling fluid consisting of water, to which has been added sufficient salts of a character common to the sone penetrated to completely saturate the mixture. Other admixtures may be added to the fluid by the operator in overcoming any specific problem. This requirement is specifically intended to prevent enlarged drill holes. Prior to drilling into the uppermost pay zone, the hole shall be filled with mud and the level of mud maintained to the surface during drilling and testing of pay zones.

3. Production Casing String:

- (a) If production is encountered, applicant shall set a production string of 4 1/2-inch casing through the productive interval.
- (b) The production casing string shall be cemented with sufficient cement to circulate back to the surface.
- 4. Cementing and Testing Procedure:

All cement mixtures and testing procedures shall be in accordance with the applicable provisions of Order No. R-111-A.

5. Abandonment Procedure:

Upon abandonment of the well, it shall be plugged and abandoned in accordance with the standard statewide rules and regulations of the New Mexico Oil Conservation Commission. Cement plugs of 25 sacks each (at least 100 feet in length) shall be spotted opposite the pay horizon, below the salt section, above the salt section, and at the base of the shoe of the surface casing, and 10 sacks shall be used at the surface. In addition, 25-sack cement plugs shall be spotted opposite any water bearing horizon encountered while drilling.

-4-CASE No. 4270 Order No. R-3887

- 6. Applicant shall notify the Hobbs District Office of the date and hour casing is to be run and cemented and the date and hour the well is to be plugged.
- (3) 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 CONMISSION

DAVID F. CARGO, Chairman

ALEX J. ARMIJO, Member

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

Case 4270 Keard 11-25 169 Rec. 11-26 69 Shout Byron Al Knight permise to Dill their his Cum # 1- H-26. 195-33 E + his Cenn A #1- 6-26-195-33 E to the 5. R. fun at a depth of support 3800' with a cakin protorum in exception to 1R-114-A, as factoins; 118 % surfail - 300'- Circulatel 2. Dulling befow senfare ccesing to be with a saturated salt bluid so ga not to desolve to Engligdate & Salt section. Engligdete & Salt section. 3. 4/1 Cog lo ho set to T.D. + Ent! Circulated udion is obtained ! These wells are withing the potash æva defend by R-11/A. But urt men a fins yeur potash working pårspetire. No objection were receive

NOTE: DUE TO THE THANKSGIVING HOLIDAY, THIS HEARING IS SCHEDULED FOR TUESDAY RATHER THAN WEDNESDAY AS CUSTOMARY.

Docket No. 32-69

DOCKET: EXAMINER HEARING - TUESDAY - NOVEMBER 25, 1969

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

The following cases will be heard before Daniel S. Nutter, Examiner, or Elvis A. Utz, Alternate Examiner:

- CASE 4259: Application of Aztec Oil & Gas Company for salt water disposal,
 Lea County, New Mexico. Applicant, in the above-styled cause,
 seeks authority to dispose of produced salt water into the San
 Andres formation in the perforated interval from 5112 feet to
 5138 feet in its State "SS" Well No. 1 located in Unit F of
 Section 24, Township 17 South, Range 36 East, Spencer-San Andres Fool, Lea County, New Mexico.
- CASE 4260: Application of Tamarack Petroleum Company, Inc. for a water-flood expansion, Lea County, New Mexico. Applicant, in the above-styled cause, seeks authority to expand its Northeast Pearl Queen Unit Waterflood Project, Pearl-Queen Pool, by the conversion to water injection one additional injection well, its Unit Well No. 18, located in Unit L of Section 23, Township 19 South, Range 35 East, Lea County, New Mexico.
- CASE 4261: Application of Pennzoil United, Inc., for special pool rules and unorthodox gas well location, Lea County, New Mexico. Applicant, in the above-styled cause, seeks the promulgation of special pool rules for the Quail Ridge-Morrow Gas Pool, Lea County, New Mexico, including a provision for 320-acre spacing units. Applicant further seeks approval of the unorthodox location in said pool for its Mescalero Ridge Well No. 1 at a location 660 feet from the South line and 660 feet from the West line of Section 20, Township 19 South, Range 34 East.
- CASE 4262: Application of Plains Radio Broadcasting Company for an exception to Order No. R-3221, as amended, Chaves County, New Mexico. Applicant, in the above-styled cause, seeks an exception to Order No. R-3221, as amended, which order prohibits the disposal of water produced in conjunction with the production of oil on the surface of the ground in Lea, Eddy, Chaves, and Roosevelt Counties, New Mexico. Said exception would be for the applicant's White Ranch Well No. 1 located in Unit E of Section 34, Township 11 South, Range 29 East, White Ranch Siluro-Devonian Pool, Chaves County, New Mexico. Applicant seeks authority to dispose of salt

water produced by said well in an unlined surface pit located in the vicinity of said well. In the alternative, applicant seeks authority to dispose of said produced water into the Siluro-Devonian formation in the perforated interval from 8743 feet to 8750 feet in its White Ranch Well No. 3 located in Unit M of said Section 34.

- CASE 4263: Application of Wynn & Brooks for an unorthodox gas well location, San Juan County, New Mexico. Applicant, in the above-styled cause, seeks approval for the unorthodox location of its Federal "E" Well No. 3, to be located 590 feet from the South line and 1590 feet from the West line of Section 13, Township 27 North, Range 8 West, Blanco-Mesaverde and Basin-Dakota Pools, San Juan County, New Mexico.
- CASE 4264: Application of Wynn & Brooks for an unorthodox gas well location, San Juan County, New Mexico. Applicant, in the above-styled cause, seeks approval for the unorthodox location of its Federal "J" Well No. 1, to be located 2390 feet from the South line and 2410 feet from the East line of Section 11, Township 27 North, Range 8 West, Blanco-Mesaverde and Basin-Dakota Pools, San Juan County, New Mexico.
- CASE 4265: Application of Union Oil Company of California for salt water disposal, Lea County, New Mexico. Applicant, in the abovestyled cause, seeks authority to dispose of produced salt water into the Yates, San Andres and other formations in the openhole interval from approximately 4450 feet to 5890 feet in its Midway State Well No. 3 located in Unit J, Section 12, Township 17 South, Range 36 East, Lovington Field, Lea County, New Mexico.
- CASE 4245: (Continued from the November 5, 1969, Examiner Hearing)

 Application of Texas Pacific Oil Company, Inc., for several non-standard gas proration units, Lea County, New Mexico.

 Applicant, in the above-styled cause, seeks the dedication and rededication of certain acreage and the establishment of the following non-standard gas proration units in Townships 22 and 23 South, Range 36 East, Jalmat Gas Pool, Lea County, New Mexico:

November 25, 1969 - Examiner Hearing -3-

(Case 4245 continued)

A 160-acre unit comprising the W/2 SE/4 and the E/2 SW/4 of Section 8, Township 22 South, Range 36 East, to be dedicated to the State "A" a/a-2 Well No. 56 located in Unit J of said Section 8;

A 200-acre unit comprising the NW/4 and the NW/4 SW/4 of Section 11, Township 22 South, Range 36 East, to be dedicated to the State "A" a/a-2 Well No. 42 located in Unit E of said Section 11;

A 280-agre unit comprising the SE/4, S/2 SW/4, and the NE/4 SW/4 of Section 11, Township 22 South, Range 36 East, to be dedicated to the State "A" a/c-2 Well No. 36 located in Unit M of said Section 11;

A 200-acre unit comprising the N/2 NE/4, the SE/4 NE/4, and the NE/4 NW/4 of Section 15 and the SE/4 SW/4 of Section 10, Township 23 South, Range 36 East, to be dedicated to the State "A" p/g-1 Well No. 31 located in Unit H of said Section 15;

A 160-acre unit comprising the S/2 NW/4, SW/4 NE/4 and the NW/4 NW/4 of Section 15, Township 23 South, Range 36 East, to be dedicated to the State "A" a/c-1 Well No. 33 located in Unit F of said Section 15;

A 240-agre unit comprising the SW/4 of Section 3, and the N/2 NW/4 of Section 10, Township 23 South, Range 36 East, to be dedicated to the State "A" a/c-1 Well No. 35 located in Unit L of said Section 3;

A 160-agre unit comprising the S/2 NW/4 and N/2 SW/4 of Section 10, Township 23 South, Runge 36 East, to be dedicated to the State "A" $\sigma/\gamma-1$ Well No. 57 located in Unit F of said Section 10.

CASE 4266: Application of Texas Parific Oil Company, Inc., for several non-standard gas promation units, is a County, New Mexido.

Applicant, in the above-styled cause, socks the dedication and rededication of cartain a mage and the establishment of the following non-standard gas promation units in Township 22 South, Range 36 East, Jalmat Cas Pool, Lea County, New Mexicos

(Case 4266 continued)

A 280-acre unit comprising the SW/4 of Section 9 and the E/2 SE/4 and SW/4 SE/4 of Section 8 to be dedicated to the State "A" a/c-2 Well No. 38 located in Unit K of said Section 9;

A 160-acre unit comprising the E/2 SW/4, SW/4 SW/4 and NW/4 SE/4 of Section 8 to be dedicated to the State "A" a/c-2 Well No. 56 located in Unit J of said Section 8;

A 120-acre unit comprising the S/2 NW/4 and NW/4 SW/4 of Section 8 to be dedicated to the State "A" a/c-2 Well No. 51 located in Unit F of said Section 8;

A 160-acre unit comprising the SW/4 of Section 5 to be dedicated to the State "A" a/c-2 Well No. 41 located in Unit M of said Section 5:

A 160-acre unit comprising the NW/4 of Section 5 to be dedicated to the State "A" a/a-2 Well No. 44 located in Unit F of said Section 5;

A 160-acre unit comprising the SE/4 of Section 5 to be dedicated to the State "A" a/c-2 Well No. 27 located in Unit P of said Section 5.

- CASE 4267: In the matter of the hearing called by the Oil Conservation Commission on its own motion to permit Edward M. Kriss and all other interested parties to appear and show cause why the Edward M. Kriss Little Chama Valley Company Well No. 1, a wildcat well, located 545 feet from the North line and 1530 feet from the West line of Section 2, Township 1 North, Range 2 East, Rio Arriba County, New Mexico, should not be plugged and abandoned in accordance with a Commission-approved plugging program.
- CASE 4268: Application of Texago Ind., for a unit agreement, Lea County, New Mexico. Applicant, in the above-styled cause, seeks approval of the State "UD" Unit Area comprising 160 acres, more or less, of State lands in the NW/4 of Section 27, Township 26 South, Range 37 East, Rhodes (Yates-Seven Rivers) Pool, Lea County, New Mexico.

CASE 4269:

Application of Pexamo for fee a waterflood project, Lea County, New Mexico. Applicant, in the above-styled cause, seeks authority to institute a waterflood project in its State "GD" Unit Area by the injection of water into the Yates-Seven Rivers formations through two wells located in Unit D and Unit F of Section 27, Township 26 South, Range 37 East, Rhodes (Tates-Seven Rivers) Pool, Lea County, New Mexico.

CASE 4270:

Application of Byron McKnight for an exception to Order No. R-111-A, Lea County, New Mexico. Applicant, in the above—styled cause, seeks an exception to the potash-oil area casing and demonting rules as set forth in Commission Order No. R-111-A. Applicant proposes to drill to a depth of approximately 3800 feet in the Yates formation two exploratory wells located in the SW/4 NE/4 and SE/4 NE/4 of Section 26, Township 19 South, Range 33 East, Lea County, New Mexico, in such a manner as to eliminate the necessity of running the salt protection string required by said Order No. R-111-A provided the production string would be demonted to the surface.

CASE 4271:

Application of Texado Ind. for a waterflood expansion and amendment of Order No. R-2748, Lea County, New Mexico. Applicant, in the above-styled cause, seeks authority to expand its waterflood project in the Rhodes (Yates-Seven Rivers) Fool, authorized by Order No. R-2748, by the injection of water through four additional wells in Sections 22 and 27 of Township 26 South, Range 37 East, Lea County, New Mexico. Applicant further seeks amendment of said order to establish a procedure whereby additional injection wells as may be necessary to complete an efficient injection pattern may be approved administratively.

CASE 4272:

Application of Shell Oil company for an unorthodox oil well location and to directionally drill. Fee County, New Mexico. Applicant, in the above-styled cause, seeks authority to drill its Sanger Well No. 6 at an unorthodox surface location in Unit E 1490 feet from the North line and 330 feet from the West line of Section 27, Township 18 South, Range 38 East, Hobbs (Grayburg-San Andres) Pool, Lea County, New Mexico. Applicant further seeks authority to directionally drill said well in such a manner as to bottom the well in the subject pool at a point in Unit D of said Section 27 approximately 200 feet north of said sucface location. Applicant proposes to dedicate said thit D to the well.

- CASE 4273: Application of Tesoro Petroleum Corporation for an unorthodox oil well location and amendment of Order No. R-2807-A, McKinley County, New Mexico. Applicant, in the above-styled cause, seeks approval for the unorthodox oil well location of its Well No. 59, formerly classified as a water injection well, located 1430 feet from the South line and 2625 feet from the East line of Section 36, Township 18 North, Range 9 West, Hospah Upper Sand Oil Pool, McKinley County, New Mexico. Applicant further seeks the amendment of Order No. R-2807-A to permit a procedure whereby additional producing and injection wells in its Hospah Unit Area may be approved administratively.
- CASE 4274: Application of Pan American Petroleum Corporation for an unorthodox oil well location, San Juan County, New Mexico.

 Applicant, in the above-styled cause, seeks authority to drill its Navajo Tribal "N" Well No. 11 at an unorthodox location 1150 feet from the West line and 560 feet from the North line of Section 17, Township 26 North, Range 18 West, Tocito Dome-Pennsylvanian "D" Oil Pool, San Juan County, New Mexico.

MON & BECO

November 5, 1969

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19VA

Oil Conservation Commission State of New Mexico Santa Fe, New Mexico 87501

> Re: Byron McKnight, Ann #1 and Ann "A" #1 Wells, Lea County, New Mexico

Gentlemen:

The undersigned are holders of Potash Prospecting Permits located within a radius of one (I) mile of the proposed referenced Well locations in Section 26, Township 19 South, Range 33 East, Lea County.

This is to advise that the undersigned have no objection to the requested deviation in the casing program from the requirements of your Order R-111-A or to the drilling of the wells.

Yours very truly,

HARROUN AND HAWORTH

By S. Harroun

cc: Mr. A. J. Losee

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Form 9-331 C

SUBMIT IN TRIPLICATE*

(Other instructions on reverse side)

Form approved. Budget Bureau No. 42-R1425.

10-30-69

UNITED STATES
DEPARTMENT OF THE INTERIOR

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SIGNED Byron McKnight
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Form 9-331 C

SUBMIT IN TRIPLICATE.

Form approved. Budget Bureau No. 42-R1425.

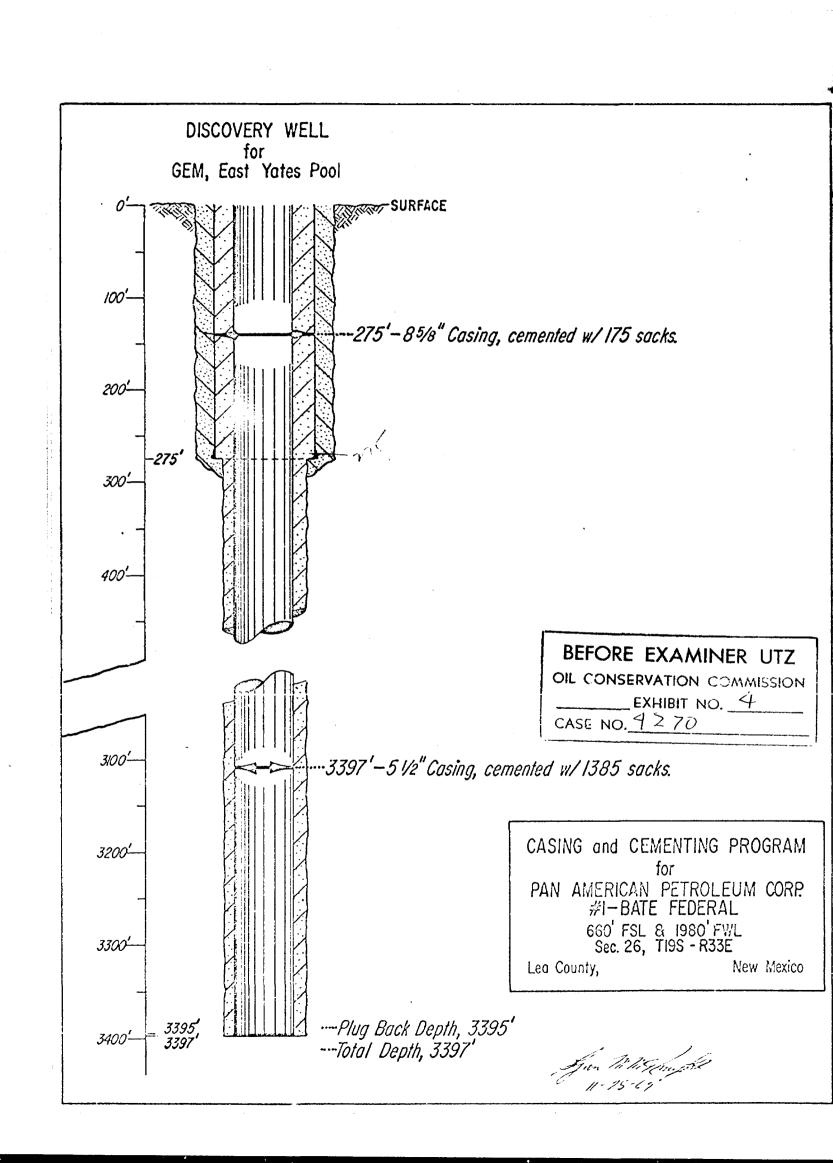
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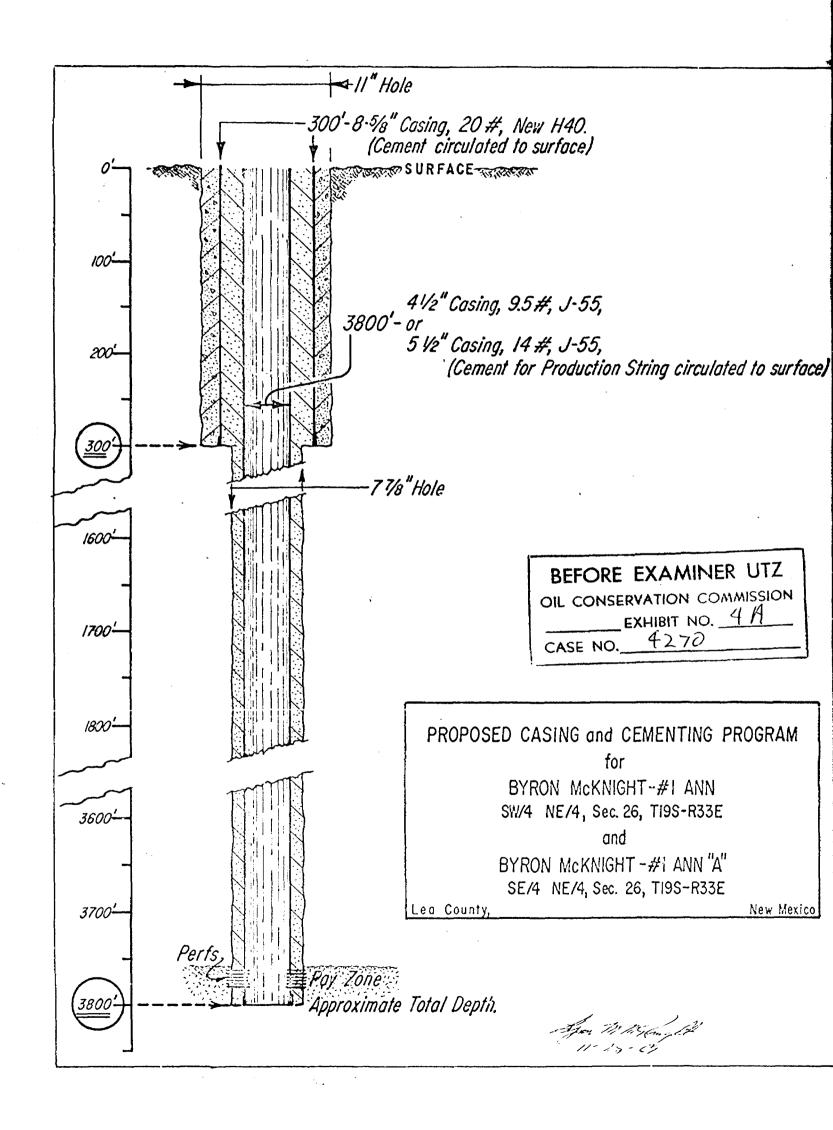
| BEFORE EXAMINER UTZ |
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| OIL CONSERVATION COMMISSION |
| EXHIBIT NO. 2 / |
| *CASE NO. 4270 |
| ata on present productive sone and proposed new productive |

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive sone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

24.

| SIGNED | TITLE | Operator | DATE 10-30-69 |
|-------------|-------|---------------|---------------|
| PERMIT NO. | | APPROVAL DATE | |
| APPROVED BY | TITLE | | DATE |







POTASH COMPANY OF AMERICA

AINE AND REFINERY: P. D. BOX 31 · CARLSBAD, NEW MEXICO 88220 · AREA CODE 505 · TU 7-2844

November 10, 1969

H. N. CLARK VICE PRESIDENT OF PRODUCTION

> A. J. Losee, Esquire P. O. Drawer 239 Artesia, New Mexico 88210

BEFORE EXAMINER LITZ.

OIL CONSERVATIONS AMISSION

EXHIBIT NO. 9

CASE NO. 4270

Re: Byron McKnight, Ann #1 and Ann "A" #1 Wells,

Lea County, New Mexico

Dear Sir:

This will advise you that we do not intend to file a formal protest to Mr. McKnight's proposal to drill oil and gas test wells as noted above in the SE/4 NE/4 and the SW/4 NE/4 of Section 26, Township 19 South, Range 33 East in Lea County.

Yours very truly,

HNC/jm

H. N. Clark Vice President

cc: Mr. A. L. Porter, O.C.C.

Mr. John A. Anderson, U.S.G.S., Roswell Mr. Robert S. Fulton, U.S. G. S., Carlsbad

Xerox copies sent Mr. C. W. Trainer & Mr. Byron McKnight 11/13/69.



NOV 6 REC'D

LAW OFFICES

A. J. LOSEE

CARPER BUILDING - P. O. DRAWER 239
ARTESIA, NEW MEXICO 88210

AREA CODE 505 746-3508

5 November 1969

Office 4270

SPECIAL DELIVERY

JOEL M. CARSON

Mr. A. L. Porter, Jr. Secretary-Director Oil Conservation Commission Post Office Box 2088 Santa Fe, New Mexico 87501

Dear Mr. Porter:

Enclosed herewith, please find triplicate copies of application of Byron McKnight for permission to drill two exploratory test wells in the Potash-Oil Area, Lea County, New Mexico, and for an exception to Order R-111-A to the casing requirements for the two exploratory wells.

I understand this application will be set for hearing before an examiner on November 25, 1969. At the date of this writing, we do not anticipate any protest from the Potash-Oil operators.

Very truly yours

A. J. Losee

AJL:jw Enclosures

cc: Mr. Byron McKnight

DOCKET MAILED

11.14.69

BEFORE THE OIL CONSERVATION COMMISSION

STATE OF NEW MEXICO

IN THE MATTER OF THE APPLICATION OF BYRON McKNIGHT FOR PERMISSION TO DRILL TWO EXPLORATORY TEST WELLS IN THE POTASH-OIL AREA, LEA COUNTY, NEW MEXICO, AND FOR AN EXCEPTION TO ORDER R-111-A TO THE CASING REQUIRE-MENTS FOR THE TWO EXPLORATORY WELLS

Case No. 4270

APPLICATION

COMES BYRON McKNIGHT by his attorney and in support of this application, states:

- 1. Applicant is the operator of the Yates Formation underlying the S/2 NE/4 of Section 26, Township 19 South, Range 33 East, N.M.P.M., Lea County, New Mexico.
- 2. Operator proposes to drill the Ann No. 1 well to a depth of approximately 3,800 feet below the surface of the SW/4 NE/4 of Section 26.
- 3. Applicant proposes to drill the Ann "A" No. 1 well to a depth of approximately 3,800 feet below the surface of the SE/4 NE/4 of said Section 26.
- 4. In the drilling of the Ann No. 1 well and the Ann "A" No. 1 well, applicant proposes to utilize the following casing and cementing program, to-wit:

8-5/8 inch casing set at approximately 300 feet, with such casing to be cemented with approximately 300 sacks necessary to circulate the cement to the ground surface.

4-1/2 inch casing set at approximately 3,800 feet, with such casing to be cemented with 2,500 sacks necessary to circulate the cement to the surface of the ground.

- 5. The two exploratory well locations are within the Potash-Oil Area, Lea County, New Mexico, defined in Order R-111-A, and the applicant's proposed casing and cementing programs for the two exploratory test wells are not in compliance with said Order R-111-A.
- 6. That Potash Company of America, Box 31, Carlsbad, New Mexico, and Dan Harroun, 601 Riverside Drive, Carlsbad, New Mexico, are all of the potash operators holding Potash Leases within a radius of one mile of the two exploratory wells. That applicant has furnished each of said potash operators with the well location plat and the notice of intention to drill each of the exploratory wells. The Return Receipts for such Certified Mail are hereto attached and by reference made a part hereof.
- 7. The approval of this application will prevent waste and protect correlative rights.

WHEREFORE, applicant prays:

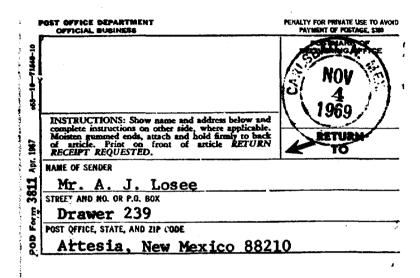
- A. That this application be set for hearing before an examiner and that notice of said hearing be given as required by law.
- B. That upon hearing, the Commission enter its Order granting permission to applicant to drill the two exploratory test wells in the Potash-Oil Area, Lea County, New Mexico, and grant to applicant an exception to the casing requirements of Order R-111-A for the two exploratory wells.
- C. And for such other relief as may be just in the premises.

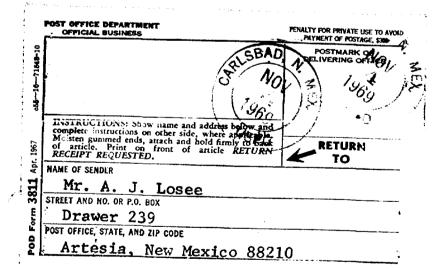
BYRON McKNIGHT

A. J. Losee

P. O. Drawer 239 Artesia, New Mexico

Attorney for Applicant





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GMH/esr

14)

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:

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CASE No. 4270

Order No. R-3887

APPLICATION OF BYRON McKNIGHT 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 November 25, 1969, at Santa Fe, New Mexico, before Examiner ___Elvis A. Utz .

NOW, on this <u>day</u> of <u>,</u> 1969, 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, Byron McKnight, seeks authority to drill two exploratory wells at standard locations in the SW/4 NE/4 and in the SE/4 NE/4 of Section 26, Township 19 South, Range 33 East, NMPM, affect the East New Pool, Lea County, New Mexico, said area being situated in the Potash-Oil Area governed by Commission Order No. R-111-A.
- (3) That the applicant also seeks approval of a special cementing and casing program for the subject wells as an exception to the casing and cementing rules prescribed for the Potash-Oil Area by said Order No. R-111-A.

- (4) That potash development does not presently exist and is not presently known to be contemplated within the vicinity of the proposed wells.
- (5) That approval of the proposed special casing and cementing program for the subject wells will prevent waste and protect correlative rights.

IT IS THEREFORE ORDERED:

- (1) That the applicant, Byron McKnight, is hereby authorized to drill two exploratory wells at standard locations in Section 26, Township 19 South, Range 33 East, NMPM, affect to the Pool, Lea County, New Mexico, as follows:

 Byen McKnight Ann A Well to Local 1980 FNL Galling FEL
- (2) That as an exception to the provisions of Order No. R-111-A, the applicant is hereby authorized to complete and abandon the aforesaid two wells as follows:

CASING, CEMENTING, AND ABANDONMENT PROCEDURE

- 1. Surface Casing String:
 - (a) Applicant shall set ** -inch new **

 **sod* oil field casing in gcod condition

 at a depth of **300* feet below the surface

 or deeper if necessary to protect any

 potable water. Cement shall be circulated

 back to the surface.
 - (b) Cement shall set a minimum of $2\dot{4}$ hours before drilling the plug or instituting tests.
- 2. Salt Protection Casing String:

In lieu of utilizing a salt protection string the operator shall, while drilling the salt section, employ a drilling fluid consisting of water, to which has been added sufficient salts of a character common to the zone penetrated to completely saturate the mixture. Other admixtures may be added to the fluid by the operator in overcoming any specific problem. This requirement is specifically intended to prevent enlarged drill holes. Prior to drilling into the uppermost pay zone, the hole shall be filled with mud and the level of mud maintained to the surface during drilling and testing of pay zones.

(under)

4. Cementing and Testing Procedure:

All cement mixtures and testing procedures
shall be in accordance with the applicable
provisions of Order No. R-111-A.

5. Abandonment Procedure:

Upon abandonment of the well, it shall be plugged and abandoned in accordance with the standard statewide rules and regulations of the New Mexico Oil Conservation Commission.

Cement plugs of 25 sacks each (at least 100 feet in length) shall be spotted opposite the pay horizon, below the salt section, above the salt section, and at the base of the shoe of the surface casing, and 10 sacks shall be used at the surface. In addition, 25-sack cement plugs shall be spotted opposite any water bearing horizon encountered while drilling.

- 6. Applicant shall notify the Hobbs District
 Office of the date and hour casing is to
 be run and cemented and the date and hour
 the well is to be plugged.
- (3) 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.