

CASE 4084: Application of OLEN F.
FEATHERSTONE for new oil pool and
special pool rules, Lea County.

- asc number

4084

Application.

Transcripts.

Small Exhibits

ETC.

dearnley-meier

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

209 SIMMS BLDG. • P.O. BOX 1092 • PHONE 243-6691 • ALBUQUERQUE, NEW MEXICO



BEFORE THE
NEW MEXICO OIL CONSERVATION COMMISSION
Santa Fe, New Mexico
May 13, 1970

EXAMINER HEARING

IN THE MATTER OF:)
)
)

Case No. 4084 being reopened pursuant)
to the provisions of Order No. R-3732,)
which order established 160-acre)
spacing units and an 80-acre propor-)
tional factor of 4.77 for the Feather-)
Wolfcamp Pool, Lea County, New Mexico.)

) Case No. 4084
)
)

BEFORE: Daniel S. Nutter, Examiner.

TRANSCRIPT OF HEARING

dearnley-meier

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

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MR. NUTTER: We will call next Case 4084.

MR. HATCH: Case 4084. Reopened. Continued from the April 15, 1970 examiner hearing. In the matter of Case No. 4084 being reopened pursuant to the provisions of Order No. R-3732, which order established 160-acre spacing units and an 80-acre proportional factor of 4.77 for the Feather-Wolfcamp Pool, Lea County, New Mexico.

Mr. Examiner, this case was first reopened as you notice on April 15, 1970 in Hobbs, New Mexico. No one appeared in the case to show reason why it should not be developed on less than 160-acre spacing units and if no one makes an appearance here today, I would recommend that the special rules be abolished.

MR. NUTTER: Is there anyone present wishing to make an appearance in Case 4084? No appearance in this case, the special pool rules for this pool will be rescinded.

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STATE OF NEW MEXICO)
) ss
COUNTY OF BERNALILLO)

I, GLENDA BURKS, Notary Public 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.

Glenda Burks
NOTARY PUBLIC

My Commission Expires:

March 12, 1973

I do hereby certify that the foregoing is a complete record of the proceedings in the hearing held on Case No. 4084, heard by me on 5/13, 1970.
[Signature]
New Mexico Oil Conservation Commission

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

209 SIMMS BLDG. • P.O. BOX 1092 • PHONE 243-6691 • ALBUQUERQUE, NEW MEXICO



BEFORE THE
NEW MEXICO OIL CONSERVATION COMMISSION
Hobbs, New Mexico
April 15, 1970

REGULAR HEARING

IN THE MATTER OF:

Case No. 4084 being reopened pursuant
to the provisions of Order No. R-3732,
which order established 160-acre spacing) Case No. 4084
units and an 80-acre proportional factor)
of 4.77 for the Feather-Wolfcamp Pool,)
Lea County, New Mexico.)

BEFORE: A. L. Porter, Secretary-Treasurer
David F. Cargo, Governor
George Hatch, General Counsel

Daniel S. Nutter, Examiner

TRANSCRIPT OF HEARING

MR. NUTTER: Case 4031.

MR. HATCH: Case 4031. Reopened. In the matter of Case No. 4031 being reopened pursuant to the provisions of Order No. P-2732, which order established 160-acre spacing units and an 80-acre proportional factor of 4.77 for the Feather-Holcomb Pool, Lea County, New Mexico.

MR. NUTTER: Is there anyone here in Case No. 4031? We will continue the case until after lunch. We will call next Case No. 4036.

MR. HATCH: Do you want to give an approximate time on this after lunch?

MR. NUTTER: Yes, we will.

(No response.)

MR. NUTTER: Case 4034.

MR. HATCH: Case 4034. Reopened. In the matter of Case No. 4034 being reopened pursuant to the provisions of Order No. P-2732, which order established 160-acre spacing units and an 80-acre proportional factor of 4.77 for the Feather-Holcomb Pool, Lea County, New Mexico.

The call of the docket said all interested parties may appear and show cause why the said pool should not be developed on less than 160-acre spacing units and to show cause why the 80-acre proportional factor of 4.77 should or

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should not be retained.

MR. MURPHY: The original hearing of Case No. 4024 was on March the 26th of 1962. The Applicant in that case was Glen E. Featherstone. Is there anyone present at the hearing representing the original Applicant, Glen E. Featherstone, in this matter today? Is there anyone present at the hearing that wishes to make an appearance in Case No. 4024?

Case No. 4024 will be continued to the Examiner Hearing to be held at nine o'clock a.m., May the 13th, at the Santa Fe Land Office Building in Santa Fe. With that, the hearing is adjourned.

(Whereupon, the hearing was adjourned.)

COUNTY OF BERNALILLO)
COUNTY OF BERNALILLO)
COUNTY OF BERNALILLO)

I, BRENDA BURKE, 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.

Brenda Burke
Court Reporter

I do hereby certify that the foregoing is
a complete and correct transcript of
the hearing held on the 1st day of
before me at the New Mexico Oil Conservation Commission.

New Mexico Oil Conservation Commission

dearnley-meier reporting service, inc.

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

1120 SIMMS BLDG. • P. O. BOX 1092 • PHONE 243-6691 • ALBUQUERQUE, NEW MEXICO

BEFORE THE
NEW MEXICO OIL CONSERVATION COMMISSION

Santa Fe, New Mexico

March 26, 1969

EXAMINER HEARING

IN THE MATTER OF:

Application of Olen F.
Featherstone for the
creation of a new pool
and for special pool
rules, Lea County,
New Mexico.

Case No. 4084

BEFORE: Elvis A. Utz, Examiner

TRANSCRIPT OF HEARING

MR. UTZ: Case 4084.

MR. HATCH: Case 4084, application of Olen F. Featherstone for the creation of a new pool and for special pool rules, Lea County, New Mexico.

MR. KELLAHIN: If the Examiner please, Jason Kellahin, Kellahin and Fox, Santa Fe, appearing for the applicant.

MR. UTZ: Any other appearances in this case?

(Whereupon, Applicant's Exhibits Numbers 1 through 8, inclusive, were marked for identification.)

(Witness sworn.)

WILLIAM BARNHILL

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

DIRECT EXAMINATION

BY MR. KELLAHIN:

Q State your name, please.

A William Barnhill.

Q Mr. Barnhill, what business are you engaged in?

A I am a consulting geologist from Roswell, New Mexico.

Q In connection with your work as a consulting geologist, have you done any work for Olen F. Featherstone in connection with the application in Case 4084?

A Yes, I have. I have prepared these exhibits.

Q Have you testified before the Oil Conservation Commission and made your qualifications as a matter of record?

A Yes.

MR. KELLAHIN: Are the witness's qualifications acceptable?

MR. UTZ: Yes, they are.

Q Mr. Barnhill, briefly, what is being proposed by Mr. Featherstone in the application before the Commission at this time?

A What is being proposed in this application 4084 is creation of a new pool with new pool rules, and applying for 160-acre spacing, with an 80-acre allowable, is essentially the proposal.

Q This is for the applicant's Cabot State Well No. 1?

A Yes, sir. Featherstone No. 1, Cabot State, in Section 29, 15-32, Lea County.

Q That is the well is located in the northeast of the northwest quarter of that section?

A Yes, sir.

Q Referring to what has been marked as Exhibit Number 1, would you identify that exhibit?

A Well, Exhibit Number 1 is a land plat of the area,

showing the North Anderson Ranch Unit approximately a mile to the southeast, and a dry hole in Section 32 known as the Lane Mill Unit, drilled by T.P. Coal and Oil; and a well immediately north in Section 20, a dry hole which was drilled by Cabot, and it is the Cabot Carper State.

Mr. Featherstone's well was drilled at the location you just described, in anticipation of encountering some of the Wolfcamp reef found in the North Anderson Ranch Field.

Q Did you encounter that producing formation?

A We encountered the formation, but it wasn't productive. If I could refer you to the electric log on the next sheet.

Q That is Exhibit Number 2?

A That would be Exhibit Number 2, which is the microlog of the Featherstone No. 1 Cabot State, you will notice that approximately 9,500 feet, there is approximately five feet of microlog porosity. The DST is on the log here, and that was the first DST. It went on down to the Anderson Ranch pay, itself, which is the Bough C, and took a DST at 9,725 to 9,778, and we did have gas to the surface in four minutes, and recovered 120 foot of oil and gas cut mud, and five barrels of oil.

Now, the Bough C, this particular zone here is what

is producing in the Anderson Ranch Unit to the southeast. You will notice on this microlog, we just don't have any microlog porosity.

This well was drilled to a depth of 10,200 feet, and subsequent DST below this recovered water. Five and a half-inch casing was run on this, and perforated this lower zone, which is the pay in the Anderson Ranch, more or less just seeing if anything would develop, which you will notice the perforations marked on the log, and it was acidized, and it did -- we just lost our porosity completely. So we went back up to this 9,500-foot zone, and perforated, 9,499, 9,500 to 9,501, and acidized this with 1,500 gallons. Currently, this well is out of that zone, which is the Bough B, and is flowing eight to ten barrels of oil per hour, no water.

Q Is all of the production coming from this upper zone which is designated as B?

A Yes, sir.

Q In your opinion, is the C zone contributing anything to this production?

A Not to my knowledge would it be contributing anything.

Q It is open in the well bore, however, is it not?

A We have two feet open there, yes.

Q Did you set a plug below that point?

A Yes, there is a plug below that.

Q But, in your opinion, is this a separate source of supply than that from which the Anderson Ranch is producing?

A Yes, it is. These perforations at which the oil is coming from is the Bough B section, which does not produce in the Anderson Ranch Field to the southeast, or in the immediate area. It is present in these other wells in the Anderson Ranch Field, but they developed their good porosity in the Bough C, and they just never made any attempt to complete out of this Bough B section.

Q Now, referring to what has been marked as Exhibit Number 3, would you identify that exhibit?

A Exhibit Number 3 is just a subsurface contour map on the top of the Bough B section, and actually all it shows, it is just the updip-downdip relationship between Anderson Ranch and the Featherstone Cabot State. That is contoured on the Bough B section that we have open, and is making oil in the Featherstone well.

The next sheet attached to this Exhibit 3 is the BB cross-section, which goes from the Featherstone well to the Aztec 1-AW in Section 28. This is just a straight line cross-section.

Q The cross-section, then, is attached as the next page?

A It is the third sheet attached to Exhibit 3, which shows the Bough B section in the Featherstone well, and the Bough B section in the Aztec well, which was not tested, but the microlog, it is a very similar porosity situation. If you look down further on the Aztec 1-AW well, you can see the porosity that develops in the C section, which the Featherstone well does not have.

Q And the Aztec well, is that completed and producing from the Bough C zone?

A Yes, out of that lower porosity below 9,900.

Q Is it open in the B?

A There are no wells in the immediate area open in the B.

Q Referring to what has been marked as Exhibit Number 4, would you identify that exhibit?

A Well, Exhibit Number 4 is a subsurface map on the top of the Bough C, which is the producing horizon in the Anderson Ranch, itself, and there again it is essentially the same relationship structurally as these horizons, just updip-downdip situations. The second sheet attached to it is the AA cross-section. This section goes from the TP-Lane

Mill Unit, the dry hole in Section 32, to the Featherstone well in 29, to the dry hole Cabot Carper State in Section 20.

Again, the relationship here on the microlog is just to show the B horizon in the TP Well and the Featherstone Well. In the TP Well, you will notice the Bough B is essentially the same microlog thickness as the Featherstone Well.

TP Coal and Oil, which I have included in this record, the well data, did attempt a completion out of their Bough B section, in which the last report was that it was swabbing 40 barrels of oil per day, and they subsequently abandoned it.

There is only one thing wrong with this particular cross-section, in that the Cabot well to the north did not run a microlog section through the Bough B section, and what I have included here is just the induction log showing the same horizon, but we are looking at an induction log and microlog here, which is a little -- just isn't the way it should be, but that is all we have to use.

You will notice that in the Cabot well, the Bough B section has thickened up to, I would say, maybe fifteen feet of Queen limestone in there. That well did take a DST on the Bough B, and they had some gas and free oil on the DST, but

they attempted a completion out of the Bough C, and the well was consequently abandoned.

Q Now, the only well that is actually producing, then, from the Bough B is the Olen Featherstone Cabot State No. 1?

A That's right.

Q Referring to what has been marked as Exhibit Number 5, would you identify that exhibit?

A Exhibit Number 5 is just the well data on the Featherstone No. 1 Cabot State, with just the field records in there of the DST's, and casing, cementing, perforations, the acidizing, and the pressures they were treated under. Actually, just the complete daily history of the well on its completion.

Q Is the well presenting flowing?

A Yes, it is.

Q How long has it been operating as a Queen well?

A Well, that would be effective about February 25th.

Q What volume is it presently producing?

A It is producing 8.77 barrels of oil per hour.

Q Now, referring to what has been marked as Exhibit Number 6, would you identify that exhibit?

A Well, Exhibit Number 6 is of the wells that I just mentioned, that is the Cabot Corporation, and the TP Lane Mill.

It did have DST in the Bough B, which is just the well file on those wells, just to show that that particular zone had been tested, although there was not a completion. Plus the Union well in the Union 133 also tested the Bough B, and they recovered free oil. That is the only three wells that have even run a DST on this particular zone.

Q Now, referring to what has been marked as Exhibit Number 7, would you identify that exhibit?

A All the offset operators were asked to comply by letter whether they would have any objection to forming a new pool, and the spacing proration units, which the only one that I actually have received a copy of, they were asked to be addressed to Mr. Porter with a copy to Mr. Featherstone, and I have the copy here stating the approval of Cabot Corporation and Tenneco. Unless the Commission has something adverse to report, all the adjacent operators said they would have no objection.

Q And then the third page of that exhibit is the assignment of allowable?

A That was the assignment of the allowable by the Oil Conservation Commission.

Q That was based on what kind of acreage dedication? Was that based on 40-acre units?

A That is based on 80.

Q On 80. Because you are within one mile of the Anderson Ranch Unit, is that correct?

A Yes.

Q And that was a Wolfcamp well, and the assignment was based on the basis of 80-acre spacing as provided in the Anderson Ranch Unit, is that the situation?

A That's right.

Q Referring to Exhibit Number 8, would you identify that exhibit?

A Well, Number 8 is the interpretation and calculation of the two DST's, both the Bough B horizon and the Bough C horizon, prepared by Halliburton in their Duncan, Oklahoma office on their computer calculations, which we prefer to use due to the fact they are just a little more accurate than the regular field data, although it is just the interpretation.

Q Now, that is the first two pages?

A That is the first two pages.

Q Referring to the third page of the exhibit, would you discuss the information shown on that?

A Well, that is the reserve calculations for the Bough B section at 9,498 to 9,502. And the lower zone, which would be the Bough C, that would be the reserve calculations.

Q That is referred to as Zone 1, that would be the B?

A Yes, that really should be, that would be the B zone. That is just a typographical error. That is the Bough B.

Q And Zone 2 is the Bough C, is that correct?

A Yes.

Q Based on these calculations, is that calculation based on the information shown on the Halliburton calculation?

A Yes, it is.

Q Now, based on these calculations, in your opinion, would a well located and spaced on 80 acres be economic?

A Well, 80-acre spacing, the figure is 50,000 barrels, 50,776 barrels, which would not be economically feasible.

Q What is the depth of these wells?

A The Bough B horizon is at 9,500.

Q What is the approximate cost of drilling a well to the Bough B?

A \$120,000.00

Q If the Commission sees fit to grant your request for 160-acre spacing, would that be an economic operation for the operator here?

A Well, what we would like to do, if the Commission

would grant us temporary spacing on this, we would certainly improve the situation from the reserve calculations. We calculate that 101,552 barrels, which is kind of a skinny operation at its best, but we would have hopes of doing some additional development in there, and getting more reservoir data and information to see if this B zone is an actual commercial zone, which, since it has not produced in the immediate area, we really have a lot of unanswered questions.

Q Specifically, Mr. Barnhill, do you have any pressure information at this time?

A Only on this material presented here on the calculations.

Q And that is based on the drill stem test?

A Yes, sir.

Q Do you have any information on the permeability of the formation?

A No more than what is calculated off these Halliburton charts.

Q You have no cores?

A No cores, no.

Q Now, according to your Exhibit Number 1, the Cabot well is located on acreage originally owned by Cabot and farmed out to Featherstone?

A That's correct.

Q Do you have any arrangement with Tenneco and Texas Pacific, or whoever is the owner of the remaining half of that quarter-section that would be dedicated to the well, does Featherstone have that acreage?

A Yes, he does.

Q He could dedicate the 160 acres to the well?

A Yes, he could.

Q What would be the next action in the event this application is approved on the part of the applicant here, in regard to future development?

A It would be proposed to re-enter the Cabot Carper State located in the southeast quarter of Section 20, which is diagonally to the northeast, and attempt a completion out of the Bough B section in that well. That well did test some free oil out of that zone. That would be the first step. There is not a microlog of that particular section, as mentioned earlier, but the induction log looks like there might be possibly fifteen feet of clean lime in there.

Q Would it be practical to go ahead with that type of operation on the basis of 80-acre spacing?

A I think it would be just economically feasible on 80 acres. I don't believe the economics would apply at all.

Q Actually, the present well owned by Mr. Featherstone would not make 160-acre allowable?

A No, it would be hard pressed to make an 80-acre allowable. We do have plans to go ahead and reacidize this Bough B section, but it wouldn't make 160-acre allowable under no circumstances.

Q Well, as a consultant for Mr. Featherstone, Mr. Barnhill, would you recommend to him that he enter the Carper State Well in Section 20 and attempt to complete it, if the pool was spaced on 80 acres?

A On 80 acres?

Q Yes.

A No, sir.

Q Would you recommend that he attempt to complete that well on the basis of 160 acres?

A Yes, I would.

Q In your opinion, would there be any further development of this Bough C zone in the area, if this application is not approved?

A Well, I believe when you look at the facts on the matter here, it is just a real highly questionable situation at best, but it would -- since the Bough B has not produced, we really don't know much about it. We can't present enough

evidence on drainage, and one thing or another. There wouldn't be any point in trying to kid anybody. If it was a new zone, whether it is going to be real commercial or not, we really don't know at this time. It would certainly be not commercial on 80-acre spacing.

Q Would a temporary order for a period of one year give Mr. Featherstone an opportunity to obtain additional information which may or may not justify 160-acre spacing on the basis of drainage? Would the additional year give you enough time to obtain that information?

A I think it would, yes.

Q Would the additional one year give you time to make tests on the present well, and establish some information as to the drainage pattern of that well?

A Yes.

Q Then, frankly, we do not have information showing drainage, is that correct?

A We have very little information on this Bough B section here, that's right, very little information.

Q Are you then requesting the Commission on the basis of economics, for an opportunity to make further developments in this pool and test to determine the proper acreage dedication, is that what you are asking for?

A Yes.

Q Were Exhibits 1 through 8 prepared by you or under your supervision?

A Yes, they were.

MR. KELLAHIN: At this time, I would like to offer Applicant's Exhibits 1 through 8.

MR. UTZ: Without objection, Exhibits 1 through 8 will be entered into the record of this case.

MR. KELLAHIN: That is all we have.

(Whereupon, Applicant's Exhibits Numbers 1 through 8, inclusive, were admitted into evidence.)

CROSS EXAMINATION

BY MR. UTZ:

Q Mr. Barnhill, what do you estimate the profit would be on a barrel of oil?

A \$1.60.

Q It would be a little rough on 23,400 barrels to pay out that \$120,000, wouldn't it?

A Which figure was that, sir?

Q 23,400 barrels, which you show as your recoverable reserves from 160 acres.

A Well, on 160 acres, is 101,552.

Q Your net recovery on 160 is 23,400, isn't it, if

you assume the factor of 25 per cent?

MR. KELLAHIN: That is the Bough C zone, if the Examiner please.

Q Is that the C zone?

A That is the C zone, yes. That zone is not going to contribute anything to the well bore.

Q You don't think that you will get any of that 23,400?

A No, sir, I really don't.

Q Then there is not much reason for being here, is there?

A It is a matter of presenting the data we have. But the C zone just isn't producing in this well, unfortunately.

Q So it is 101,552?

A Yes.

Q And that Zone 1 is the B zone?

A Yes, sir. I am sorry that is called Zone 1 there, but that is the Bough B.

Q Do you have a suggestion for a pool name?

A Not at this time, sir. I am not the operator in this, and I don't know what they are going to attempt to call it.

Q Does he have a suggestion?

A I don't know of one at this time, sir.

Q What did you say the top of the perforations were on your B zone?

A That is at, on the B zone, the top of the perfs is 9,499, 9,500, and 9,501.

Q And you are not asking for a discovery allowable here, since the well won't make it anyhow?

A That's right.

Q But you are asking an 80-acre allowable?

A Yes, sir.

Q And I believe you requested a one-year temporary order?

A Yes, sir.

MR. UTZ: Any other questions of the witness?

The witness may be excused. Any statements?

MR. HATCH: The Commission has received a letter from Tenneco Oil Company dated March 11th. The application of Olen Featherstone for the formation of a new pool and adoption of a 160-acre proration unit surrounding their recent discovery northeast, northwest Section 29, Township 15 South, Range 32 East, will be heard March 26, 1969. Tenneco Oil Company has no objections to this spacing unit. Signed, C. H. Madsen, Geologist. That is the only communication I

have a record of receiving here. That is from Tenneco.

THE WITNESS: I believe we have one there from Cabot Corporation.

MR. HATCH: You show a copy coming here, but I couldn't find it.

MR. UTZ: Well, we didn't find it. Any other statements? The case will be taken under advisement. We will adjourn now until one thirty o'clock this afternoon.

(Whereupon, the hearing was adjourned for the morning, to reconvene at one thirty o'clock, P.M.)

WITNESSI N D E X

WILLIAM BARNHILL

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Direct Examination by Mr. Kellahin

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Cross Examination by Mr. Utz

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EXHIBITSMARKEDApplicant's Exhibits
Numbers 1 through 8

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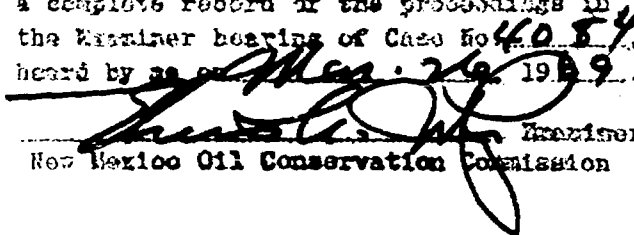
ADMITTED IN
EVIDENCE

17

STATE OF NEW MEXICO)
) ss.
 COUNTY OF BERNALILLO)

I, SAMUEL MORTELETTE, 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

I do hereby certify that the foregoing is a complete record of the proceedings in the Examiner hearing of Case No. 4054 heard by me on May 29, 1949.

 Examiner
 New Mexico Oil Conservation Commission

EL PASO TIMES

EL PASO, TEXAS

JUN 30 1969

New Mexico Press Clipping Bureau
Albuquerque, N. M.

New Mexico Oil

22

Permo-Pennsylvanian Well Finished As Discovery

Special to EL PASO TIMES
HOBBS, N.M. — Olen F. Featherstone of Roswell, No. 1 Cabot-State, Lea explorer, 2 1/2 miles northwest of Lovington, has been finished as a Permo-Pennsylvanian discovery, 1 1/4 miles northwest of Wolfcamp wells in the Anderson Ranch, North field.

It flowed 168 barrels of oil daily from perforations between 9,499 and 9,727 feet, following a 2,000 gallon acid stimulation. The production was through a 28-64-inch opening on the tubing.

Location spots 660 feet from north and 1,930 feet from west lines of section 29-15s-32e.

H. L. Brown Jr. of Midland No. 1 Continental-Federal, Chaves San Andres strike, 10 miles southeast of Elkins, has been potentialized for a daily pumping yield of 65 barrels of oil, plus 40 barrels of water, from perforations extending from 3,734 to 3,798 feet after a 3,250-gallon acid injection.

It is 660 feet from north and east lines of section 29-8s-31e. The pumper is two miles southeast of Brown's No. 1-20 Shell-Federal, another San Andres opener, and is three miles southeast of the Cato (San Andres) reservoir.

Locations for exploratory ventures have been staked in Lea.

Deeper of the two is Freeport Oil Co. of Midland No. 1 State, a Devonian wildcat slated for 15,000 feet, 3 1/2 miles southeast of Tatum.

It spots 1,630 feet from south and 2,310 feet from east lines of section 11-13s-36e, 5 1/2 miles

ALLT aduono of stuno eht up in the courts to compel LTV to 81 per cent but would seek interest in Jones & Laughlin its current 63 per cent stock would allow LTV to increase

11,400-foot operation in the Lovington, East (Strawn) pool of Lea, six miles southeast of Lovington.

It is 2,040 feet from north and 1,930 feet from east lines of section 19-16s-37e, a location northeast and northwest of producers in the seven well areas.

Roden Oil Co. of Midland staked No. 2 Roden-Bluitt-Federal as a location north stepout to the six-well Bluitt, East (San Andres oil) reservoir of Roosevelt, five miles east of Bluitt.

It spots 510 feet from north and 660 feet from west line of section 19-8s-38e. Proposed goal is 4,750 feet.

Pennzoil United Inc. of Midland was making hole below 2,216 feet in anhydrite and salt towards a 4,000-foot San Andres goal in No. 1-21 Pubco-Federal, 16 miles northwest of Caprock in Chaves.

Location is 660 feet from south and west lines of section 21-8s-31e, a mile southeast of the opener of the Siete (San Andres) pool and a location northeast of a recently completed San Andres oil producer.

RUNNING CASING

Jake L. Hamon of Midland No. 2-33-K State is at total depth 13,040 feet running production casing. The indicated third Devonian oil well in the Shoe Bar, East region of Lea, is three miles southwest of Lovington.

An eight-hour drillstem test conducted on the interval at 12,992-13,040 feet returned 2,077 feet of water blanket

southwest of the Gladwin, Southwest (Devonian) area.

Scoggins-Ronneberg Ltd. of Corpus Christi scheduled No. 1 State as a 4,690-foot San Andres prospector, 10 miles southwest of Crossroads.

Drillsite is 660 feet from north and 330 feet from west lines of section 16-10s-34e, a location southeast of Pennsylvania production in the Inbe region.

LEA EXPLORER

Pan American Petroleum Corp. plans No. 1 Bright-Federal as a 3,300-foot Yates explorer, in Lea, 15 miles southeast of Maljamar.

It is 660 feet from north and 1,980 feet from west lines of o. peters of Anaheim, Calif., No. 2 Federal is to be a 4,500-foot wildcat in DeBaca County, 1,980 feet from north and east lines of section 11-6n-26e, 24 miles north of Santa Rosa.

ing areas have been staked in Stepouts to proven production Lea and Roosevelt counties in Southeast New Mexico.

J. M. Huber Corp. of Midland plans No. 1-B Lone Star-Federal as location south out-post to the two-well Devonian reservoir in the Prairie, South multipay field of Roosevelt, four miles southeast of Milne.

Drillsite for the 13,000-foot project is 2,130 feet from south and 660 feet from east lines of section 20-8s-36e.

Deeper of the Lea operations is Pennzoil United Inc. No. 1-16 State, a 12,000-foot Strawn prospector, 1 mile northeast of the Lovington, East (Pennsylvanian) region.

It spots four miles southeast of Lovington, 660 feet from south and west lines of section 16-16s-37e.

Sam Boren of Midland scheduled No. 1-A Boren-Barbara-State as a southwest step-out to the nearer of the two Pennsylvanian oil wells in the Bagley, East territory, 10 miles southeast of Caprock in Lea.

The 10,400-foot probe is 660 feet from south and east lines of section 6-12s-34e.

Cities Service Oil Co. scheduled No. 1-CK State as an

and 7,700 feet of 62-gravity formation crude from the drill pipe and 2.5 cubic feet of gas plus 1,900 cubic centimeters of oil was recovered from the sample chamber.

Initial one-hour shut-in pressure was 5,015 pounds. Flow pressures varied from 1,652 to 3,660 pounds. Final shut-in bottomhole pressure also for one hour was 4,859 pounds.

It is 554 feet from south and 1,983 feet from west lines of section 30-16s-36e, a location northwest of the two-well pool.

An earlier investigation of the Devonian between 12,990 and 13,030 feet recovered 7,023 feet of 62.5-gravity oil and 3,077 feet of water blanket on the 5 1/4-hour test.

Phillips Petroleum Co. No. 1-A Tower-Commission has been finished as the sixth well and a southwest extender for the Ranger Lake, West (Devonian gas) reservoir of Lea, 10 miles west of Tatum.

Two calculated, absolute open flow potentials have been reported from the operation. The first was for 6,712,000 cubic feet of gas per day, plus 34 barrels of 54.4 degree distillate in four hours, while the second was for 4,354,000 cubic feet of gas daily with 43 barrels of liquid hydrocarbons in five hours.

The production was from shot holes at 12,862-12,874 feet which had been injected with 1,000 gallons of acid.

Location is 1,980 feet from south and west lines of section 24-12s-34e. Pennsylvanian and Devonian oil production in the vicinity is carried in the Ranger Lake field.

C. P. Sims No. 1 Vivian-Gulf Lea, Santa Rosa gas discovery in the Drinkard multipay field, five miles southeast of Eunice, was completed for a calculated, absolute open flow of 130,000 cubic feet of gas per day.

The production was from perforations at 740-764 feet after treating with 250 gallons of acid.



OIL CONSERVATION COMMISSION

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

GOVERNOR
DAVID F. CARGO
CHAIRMAN

LAND COMMISSIONER
ALEX J. ARMijo
MEMBER

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

May 20, 1970

Mr. Jason Kellahin
Kellahin & Fox
Attorneys at Law
Post Office Box 1769
Santa Fe, New Mexico

Re: Case No. 4084 (Reopened)
Order No. R-3732-A
Applicant:
OLEN F. FEATHERSTONE

Dear Sir:

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

Very truly yours,

G. L. Porter, Jr.

A. L. PORTER, Jr.
Secretary-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. 4084
Order No. R-3732-A

APPLICATION OF OLEN F. FEATHERSTONE
FOR THE CREATION OF A NEW POOL AND
FOR SPECIAL POOL RULES, LEA COUNTY,
NEW MEXICO.

ORDER OF THE COMMISSION

BY THE COMMISSION:

This cause came on for hearing at 9 a.m. on May 13, 1970,
at Santa Fe, New Mexico, before Examiner Daniel S. Nutter.

NOW, on this 20th day of May, 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 by Order No. R-3732, dated April 18, 1969, tem-
porary Special Rules and Regulations were promulgated for the
Feather-Wolfcamp Pool, Lea County, New Mexico, establishing
160-acre spacing units and an 80-acre proportional factor of
4.77 for allowable purposes for a period of one year.

(3) That pursuant to the provisions of Order No. R-3732,
this case was reopened to allow the operators in the subject
pool to appear and show cause why the Feather-Wolfcamp Pool
should not be developed on less than 160-acre spacing units
and to show cause why the 80-acre proportional factor of 4.77
should or should not be retained.

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CASE No. 4084

Order No. R-3732-A

(4) That no operator in the subject pool appeared to show cause why the Feather-Wolfcamp Pool should not be developed on less than 160-acre spacing units and to show cause why the 80-acre proportional factor of 4.77 should or should not be retained.

(5) That only one well is presently producing from the subject pool.

(6) That it is not anticipated that additional wells will be drilled in the subject pool.

(7) That the operators in the subject pool have not established that one well can efficiently and economically drain and develop 160 acres.

(8) That no necessity exists for the continuation of the Special Rules and Regulations promulgated by Order No. R-3732 and that said rules should therefore be abolished.

IT IS THEREFORE ORDERED:

(1) That the Special Rules and Regulations governing the Feather-Wolfcamp Pool, Lea County, New Mexico, promulgated by Order No. R-3732, are hereby abolished.


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

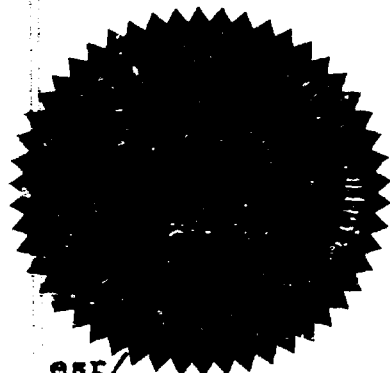
DONE at Santa Fe, New Mexico, on the day and year hereinabove designated.

STATE OF NEW MEXICO
OIL CONSERVATION COMMISSION


DAVID F. CARGO, Chairman


ALEX J. ARMIJO, Member


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



esr/



OIL CONSERVATION COMMISSION

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

GOVERNOR
DAVID F. CARGO
CHAIRMAN

LAND COMMISSIONER
ALEX J. ARMijo
MEMBER

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

April 18, 1969

Mr. Jason Kellahin
Kellahin & Fox
Attorneys at Law
Post Office Box 1769
Santa Fe, New Mexico

DOCKET MAILED

Date 4-30-70

DOCKET MAILED

Date 4-2-70

Re: Case No. 4084
Order No. R-3732
Applicant:
Olen F. Featherstone

Dear Sir:

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

Very truly yours,

A. L. PORTER, Jr.
Secretary-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. 4084
Order No. R-3732
NOMENCLATURE

APPLICATION OF OLEN F. FEATHERSTONE
FOR THE CREATION OF A NEW POOL AND
FOR SPECIAL POOL RULES, LEA COUNTY,
NEW MEXICO.

ORDER OF THE COMMISSION

BY THE COMMISSION:

This cause came on for hearing at 9 a.m. on March 26, 1969,
at Santa Fe, New Mexico, before Examiner Elvis A. Utz.

NOW, on this 18th day of April, 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, Olen F. Featherstone, seeks the
creation of a new oil pool for Wolfcamp production in Lea County,
New Mexico, including a provision for 160-acre spacing units
and the assignment of 80-acre allowables.

(3) That the evidence presently available indicates that
the Olen F. Featherstone Cabot State Well No. 1, located in the
NE/4 NW/4 of Section 29, Township 15 South, Range 32 East, NMPM,
Lea County, New Mexico, having its top perforations at 9499 feet,
has discovered a separate common source of supply which should
be designated the Feather-Wolfcamp Pool; that the vertical limits

CASE No. 4084
Order No. R-3732

of said pool should be the Wolfcamp formation as found in the interval from 9499 feet to 9630 feet on the log of the aforesaid Olen F. Featherstone Cabot State Well No. 1; and that the horizontal limits of said pool should be the NW/4 of said Section 29.

(4) That in order to prevent the economic loss caused by the drilling of unnecessary wells, to avoid the augmentation of risk arising from the drilling of an excessive number of wells, to prevent reduced recovery which might result from the drilling of too few wells, and to otherwise prevent waste and protect correlative rights, temporary special rules and regulations providing for 160-acre spacing units and the assignment of 80-acre proportional factor of 4.77 should be promulgated for the Feather-Wolfcamp Pool.

(5) That the temporary special rules and regulations should provide for limited well locations in order to assure orderly development of the pool and protect correlative rights.

(6) That the temporary special rules and regulations should be established for a one-year period in order to allow the operators in the subject pool to gather reservoir information to establish the area that can be efficiently and economically drained and developed by one well.

(7) That this case should be reopened at an examiner hearing in April, 1970, at which time the operators in the subject pool should be prepared to appear and show cause why the Feather-Wolfcamp Pool should not be developed on less than 160-acre spacing units and to show cause why the 80-acre proportional factor of 4.77 assigned to the subject pool should or should not be retained.

IT IS THEREFORE ORDERED:

(1) That a new pool in Lea County, New Mexico, classified as an oil pool for Wolfcamp production, is hereby created and designated the Feather-Wolfcamp Pool, with vertical limits comprising the Wolfcamp formation as found in the interval from 9499 feet to 9630 feet on the log of the discovery well, Olen F. Featherstone's Cabot State Well No. 1, located in the NE/4 NW/4 of Section 29, Township 15 South, Range 32 East, NMPM, Lea County,

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CASE No. 4094

Order No. R-3732

New Mexico, and horizontal limits comprising the following-described area:

TOWNSHIP 15 SOUTH, RANGE 32 EAST, NMPM
Section 29: NW/4

(2) That temporary Special Rules and Regulations for the Feather-Wolfcamp Pool, Lea County, New Mexico, are hereby promulgated as follows:

**SPECIAL RULES AND REGULATIONS
FOR THE
FEATHER-WOLFCAMP POOL**

RULE 1. Each well completed or recompleted in the Feather-Wolfcamp Pool or in the Wolfcamp formation within one mile thereof, and not nearer to or within the limits of another designated Wolfcamp oil pool, shall be spaced, drilled, operated, and produced in accordance with the Special Rules and Regulations hereinafter set forth.

RULE 2. Each well shall be located on a standard unit containing 160 acres, more or less, substantially in the form of a square, which is a quarter section being a legal subdivision of the United States Public Land Surveys.

RULE 3. The Secretary-Director of the Commission may grant an exception to the requirements of Rule 2 without notice and hearing when an application has been filed for a non-standard unit consisting of less than 160 acres or the unorthodox size or shape of the tract is due to a variation in the legal subdivision of the United States Public Land Surveys. All operators offsetting the proposed non-standard unit shall be notified of the application by registered or certified mail, and the application shall state that such notice has been furnished. The Secretary-Director may approve the application upon receipt of written waivers from all offset operators or if no offset operator has entered an objection to the formation of the non-standard unit within 30 days after the Secretary-Director has received the application.

RULE 4. Each well shall be located within 150 feet of the center of a governmental quarter-quarter section or lot.

RULE 5. The Secretary-Director may grant an exception to the requirements of Rule 4 without notice and hearing when an

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CASE No. 4084

Order No. R-3732

application has been filed for an unorthodox location necessitated by topographical conditions or the recompletion of a well previously drilled to another horizon. All operators offsetting the proposed location shall be notified of the application by registered or certified mail, and the application shall state that such notice has been furnished. The Secretary-Director may approve the application upon receipt of written waivers from all operators offsetting the proposed location or if no objection to the unorthodox location has been entered within 20 days after the Secretary-Director has received the application.

RULE 6. A standard proration unit (158 through 162 acres) shall be assigned an 80-acre proportional factor of 4.77 for allowable purposes, and in the event there is more than one well on a 160-acre proration unit, the operator may produce the allowable assigned to the unit from the wells on the unit in any proportion.

The allowable assigned to a non-standard proration unit shall bear the same ratio to a standard allowable as the acreage in such non-standard unit bears to 160 acres.

IT IS FURTHER ORDERED:

(1) That the locations of all wells presently drilling to or completed in the Feather-Wolfcamp Pool or in the Wolfcamp formation within one mile thereof are hereby approved; that the operator of any well having an unorthodox location shall notify the Hobbs District Office of the Commission in writing of the name and location of the well on or before May 1, 1969.

(2) That each well presently drilling to or completed in the Feather-Wolfcamp Pool or in the Wolfcamp formation within one mile thereof shall receive a 40-acre allowable until a Form C-102 dedicating 160 acres to the well has been filed with the Commission, or until a non-standard unit containing less than 160 acres has been approved.

(3) That this case shall be reopened at an examiner hearing in April, 1970, at which time the operators in the subject pool may appear and show cause why the Feather-Wolfcamp Pool should not be developed on less than 160-acre spacing units and to show

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CASE No. 4084

Order No. R-3732

cause why the 80-acre proportional factor of 4.77 assigned to the subject pool should or should not be retained.

(4) 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



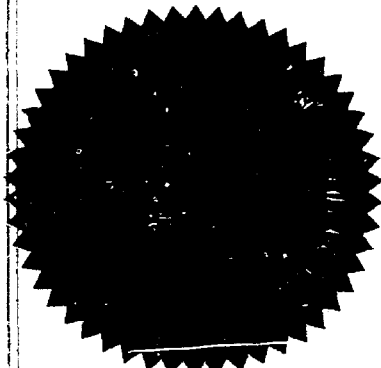
DAVID F. CARGO, Chairman



ALEX J. ARMIJO, Member



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



esr/

DOCKET: REGULAR HEARING - WEDNESDAY - MAY 13, 1970

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

- ALLOWABLE: (1) Consideration of the oil allowable for June, 1970;
- (2) Consideration of the allowable production of gas for June, 1970, from fifteen prorated pools in Lea, Eddy, Roosevelt and Chaves Counties, New Mexico; also presentation of purchaser's nominations for said pools for the six-month period beginning July 1, 1970; consideration of the allowable production of gas from nine prorated pools in San Juan, Rio Arriba and Sandoval Counties, New Mexico, for June, 1970.

THE FOLLOWING CASES WILL BE HEARD BEFORE DANIEL S. NUTTER,
EXAMINER, OR ELVIS A. UTZ, ALTERNATE EXAMINER:

CASE 4354: Application of Michael P. Grace and Corinne Grace for compulsory pooling, Eddy County, New Mexico. Applicants, in the above-styled cause, seek an order pooling all mineral interests from the surface of the ground down to and including the Morrow formation underlying the N/2 of Section 11, Township 23 South, Range 26 East, South Carlsbad Field, Eddy County, New Mexico, said acreage to be dedicated to a well to be drilled in either the NE/4 NW/4 or the NW/4 NE/4 of said Section 11. Also to be considered will be the costs of drilling said well, a charge for the risk involved, a provision for the allocation of actual operating costs, and the establishment of charges for supervision of said well.

CASE 4355: Application of Pan American Petroleum Corporation for pool consolidation, Lea County, New Mexico. Applicant, in the above-styled cause, seeks the consolidation of the North Bagley-Upper Pennsylvanian and North Bagley-Lower Pennsylvanian Pools, Lea County, New Mexico, into one pool. Applicant further requests the Lower Pennsylvanian Allowable Factor be applied to the consolidated pool.

CASE 3727 (Reopened):

In the matter of Case 3727 being reopened pursuant to the provisions of Order No. R-3428, which order established 640-acre spacing units for the Rock Tank-Upper Morrow and Rock Tank-Lower Morrow Gas Pools, Eddy County, New Mexico, for a period of one year after first pipeline connection in either of the pools. All interested persons may appear and show cause why said pools should not be developed on 320-acre spacing units.

CASE 4356: Southeastern nomenclature case calling for an order for the creation, abolishment, extension and contraction of certain pools in Lea, Eddy, Chaves and Roosevelt Counties, New Mexico.

(a) Create a new pool in Lea County, New Mexico, classified as a gas pool for Morrow production and designated as the Baum-Morrow Gas Pool. The discovery well is the RK Petroleum Corporation State No. 1 located in Unit B of Section 27, Township 13 South, Range 32 East, NMPM. Said pool would comprise:

TOWNSHIP 13 SOUTH, RANGE 32 EAST, NMPM
SECTION 27: N/2

(b) Create a new pool in Lea County, New Mexico, classified as a gas pool for Queen-Penrose production and designated as the East Querecho Plains-Queen Gas Pool. The discovery well is Robert N. Enfield's Hudson Federal No. 1 located in Unit O of Section 30, Township 18 South, Range 33 East, NMPM.

TOWNSHIP 18 SOUTH, RANGE 33 EAST, NMPM
SECTION 30: SE/4

(c) Abolish the Bluitt-San Andres Pool in Roosevelt County, New Mexico, described as:

TOWNSHIP 8 SOUTH, RANGE 38 EAST, NMPM
SECTION 7: All
SECTION 8: All
SECTION 17: All
SECTION 18: All

(d) Extend the Bluitt-San Andres Associated Pool in Roosevelt County, New Mexico, to include therein:

TOWNSHIP 8 SOUTH, RANGE 38 EAST, NMPM
SECTION 8: S/2
SECTION 17: W/2

(e) Contract the Bagley-Pennsylvanian Pool in Lea County, New Mexico, by the deletion of the following described area:

TOWNSHIP 12 SOUTH, RANGE 33 EAST, NMPM
SECTION 4: NE/4

(Case 4356 continued)

(f) Extend the North Bagley-Upper Pennsylvanian Pool in Lea County, New Mexico, to include therein:

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

TOWNSHIP 12 SOUTH, RANGE 33 EAST, NMPM
SECTION 4: NE/4

(g) Extend the Cerca-Upper Pennsylvanian Pool in Lea County, New Mexico, to include therein:

TOWNSHIP 13 SOUTH, RANGE 34 EAST, NMPM
SECTION 34: NW/4

TOWNSHIP 14 SOUTH, RANGE 34 EAST, NMPM
SECTION 8: NW/4

(h) Extend the Double L-Queen Pool in Chaves County, New Mexico, to include therein:

TOWNSHIP 15 SOUTH, RANGE 29 EAST, NMPM
SECTION 12: E/2 NE/4

(i) Extend the Hobbs-Blinbry Pool in Lea County, New Mexico, to include therein:

TOWNSHIP 18 SOUTH, RANGE 38 EAST, NMPM
SECTION 33: NE/4

(j) Extend the Lea-Bone Springs Pool in Lea County, New Mexico, to include therein:

TOWNSHIP 19 SOUTH, RANGE 34 EAST, NMPM
SECTION 35: SE/4

TOWNSHIP 20 SOUTH, RANGE 34 EAST, NMPM
SECTION 2: E/2

(k) Extend the Rock Tank-Lower Morrow Gas Pool in Eddy County, New Mexico, to include therein:

TOWNSHIP 23 SOUTH, RANGE 24 EAST, NMPM
SECTION 12: All

(l) Extend the Rock Tank-Upper Morrow Gas Pool in Eddy County, New Mexico, to include therein:

TOWNSHIP 23 SOUTH, RANGE 24 EAST, NMPM
SECTION 12: All

(m) Extend the Tulk-Pennsylvanian Pool in Lea County, New Mexico, to include therein:

TOWNSHIP 14 SOUTH, RANGE 32 EAST, NMPM
SECTION 34: NE/4

(n) Extend the Tulk-Wolfcamp Pool in Lea County, New Mexico, to include therein:

TOWNSHIP 15 SOUTH, RANGE 32 EAST, NMPM
SECTION 9: NE/4

CASE 4301: (Continued from the March 25, 1970, Examiner Hearing)

In the matter of the hearing called by the Oil Conservation Commission on its own motion to permit Robert T. Smith and all other interested persons to appear and show cause why the following Robert T. Smith wells located in Section 32, Township 20 North, Range 9 West, McKinley County, New Mexico, should not be plugged and abandoned in accordance with a Commission-approved plugging program:

State Well No. 1 located 487 feet from the North line and 990 feet from the East line;

State "A" Well No. 1 located 400 feet from the North line and 990 feet from the East line;

State Well No. 3 located 330 feet from the North line and 330 feet from the West line;

State Well No. 6 located 220 feet from the North line and 1485 feet from the East line;

State Well No. 6-Y located approximately 5 feet West of the above-described Well No 6;

State Well No. 8 located 1155 feet from the North line and 2475 feet from the East line.

CASE 4337: (Continued from the April 15, 1970, Examiner Hearing)
Application of Petroleum Corporation of Texas for an exception to Order No. R-3221, as amended, Eddy 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 applicant's Dexter Hanagan Graridge Federal Well No. 1 located in Unit J, Section 22, Township 17 South, Range 30 East, Jackson-Abo Pool, Eddy County, New Mexico. Applicant seeks authority to dispose of salt water produced by said well in an unlined surface pit in the vicinity of said well.

CASE 4336: (Continued from the April 15, 1970, Examiner Hearing)
Application of Byron McKnight for an exception to Order No. R-3221, as amended, Lea 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 or gas on the surface of the ground in Lea, Eddy, Chaves and Roosevelt Counties. Said exception would be for applicant's lease comprising all of Section 19, W/2 of Section 20, NW/4 Section 29, and NW/4 Section 30, Township 19 South, Range 34 East, undesignated Yates-Seven Rivers gas pool, Lea County, New Mexico. Applicant seeks authority to dispose of salt water produced by wells on said leases in unlined surface pits on the leases.

CASE 4084: (Reopened) (Continued from the April 15, 1970, Examiner Hearing).
In the matter of Case No. 4084 being reopened pursuant to the provisions of Order No. R-3732, which order established 160-acre spacing units and an 80-acre proportional factor of 4.77 for the Feather-Wolfcamp Pool, Lea County, New Mexico. All interested parties may appear and show cause why the said pool should not be developed on less than 160-acre spacing units and to show cause why the 80-acre proportional factor of 4.77 should or should not be retained.

CASE 4351: (Continued from the April 29, 1970, Examiner Hearing)
Application of Humble Oil & Refining Company for well reclassification and simultaneous dedication of acreage, Lea County, New Mexico. Applicant, in the above-styled cause, seeks the reclassification of its New Mexico "G" State Well No. 5 from an oil well in the Eumont Pool to a gas well in said pool. Applicant further seeks the dedication of a standard 640-acre gas proration unit comprising all of Section 23, Township 21 South, Range 36 East, Lea County, New Mexico, to said Well No. 5 and to applicant's New Mexico "G" State Well No. 9, located, respectively in Units E and G of said Section 23, and authority to produce the allowable assigned to said unit from either of said wells in any proportion.

CASE 4352: (Continued from the April 29, 1970, Examiner Hearing)
Application of Jack L. McClellan for the creation of a new gas pool or, in the alternative, the establishment of pool rules for two existing pools, Chaves and Lea Counties, New Mexico. Applicant, in the above-styled cause, seeks the creation of a new Queen gas pool comprising the following-described acreage:

CHAVES COUNTY, NEW MEXICO

TOWNSHIP 15 SOUTH, RANGE 29 EAST

Section 11: SE/4
Section 12: SW/4
Section 13: NW/4
Section 14: E/2
Section 23: NE/4 and SW/4

In the alternative applicant seeks the promulgation of special rules for the Sulimar-Queen Pool, Chaves County, and Double L-Queen Pool, Chaves and Lea Counties, New Mexico, as separate or as consolidated pools, including provisions for the classification of oil and gas wells, spacing and well location requirements for oil and gas wells, and an allocation formula for withdrawals by oil wells and gas wells.

DOCKET: REGULAR HEARING - WEDNESDAY - APRIL 15, 1970

OIL CONSERVATION COMMISSION - 9 A.M. - THE HOLIDAY INN, 200 SOUTH LINAM,
HOBBS, NEW MEXICO

- ALLOWABLE: (1) Consideration of the oil allowable for May, 1970;
- (2) Consideration of the allowable production of gas for May, 1970, from fifteen prorated pools in Lea, Eddy, Chaves and Roosevelt Counties, New Mexico. Consideration of the allowable production of gas from nine prorated pools in San Juan, Rio Arriba and Sandoval Counties, New Mexico, for May, 1970.

THE FOLLOWING CASES WILL BE HEARD BY THE COMMISSION OR BY A. L. PORTER, Jr., EXAMINER OR DANIEL S. NUTTER, ALTERNATE EXAMINER:

CASE 4332: In the matter of the hearing called by the Oil Conservation Commission upon its own motion to consider the inclusion of the NW/4 of Section 10, Township 9 South, Range 36 East, Lea County, New Mexico, in the Allison-Pennsylvanian Pool or the Vada-Pennsylvanian Pool, whichever is proper.

CASE 4333: Application of Phillips Petroleum Company for a dual completion and salt water disposal, Chaves County, New Mexico. Applicant, in the above-styled cause, seeks authority to dually complete its Marley "A" Well No. 1, a wildcat well, located in Unit P of Section 3, Township 11 South, Range 31 East, Chaves County, New Mexico, in such a manner as to permit the production of oil from the San Andres formation through perforations from 4148 feet to 4165 feet and the disposal of produced salt water into the San Andres formation through the perforated interval from 4344 feet to 4800 feet.

← CASE 4084: (Reopened)

In the matter of Case No. 4084 being reopened pursuant to the provisions of Order No. R-3732, which order established 160-acre spacing units and an 80-acre proportional factor of 4.77 for the Feather-Wolfcamp Pool, Lea County, New Mexico. All interested parties may appear and show cause why the said pool should not be developed on less than 160-acre spacing units and to show cause why the 80-acre proportional factor of 4.77 should or should not be retained.

- CASE 4334: Application of Pan American Petroleum Corporation for an unorthodox gas well location, San Juan County, New Mexico. Applicant, in the above-styled cause, seeks authority to recomplete its State Gas Com "BG" Well No. 1 at an unorthodox location 1450 feet from the North line and 1490 feet from the West line of Section 2, Township 29 North, Range 10 West, Blanco-Mesaverde Pool, San Juan County, New Mexico, the N/2 of said section to be dedicated to the well.
- CASE 4335: Application of Gulf Oil Corporation for a waterflood project, Lea County, New Mexico. Applicant, in the above-styled cause, seeks authority to institute a waterflood project in the Vacuum (Grayburg-San Andres) Pool by the injection of water into the San Andres formation through its Lea "FE" State Wells Nos. 2 and 4, located in Units C and E, respectively, of Section 11, Township 17 South, Range 34 East, Lea County, New Mexico.
- CASE 4336: Application of Byron McKnight for an exception to Order No. R-3221, as amended, Lea 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 or gas on the surface of the ground in Lea, Eddy, Chaves, and Roosevelt Counties. Said exception would be for applicant's lease comprising all of Section 19, W/2 Section 20, NW/4 Section 29, and NW/4 Section 30, Township 19 South, Range 34 East, undesignated Yates-Seven Rivers gas pool, Lea County, New Mexico. Applicant seeks authority to dispose of salt water produced by wells on said leases in unlined surface pits on the leases.
- CASE 3859: (Continued from the October 15, 1969, Regular Hearing)
Application of Wilson Oil Company for an exception to Order No. R-3221, as amended, Lea County, New Mexico. Applicant, in the above-styled cause, seeks an exception to Commission 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, after January 1, 1969. Said exception would be for applicant's leases in Sections 13, 23, and 24 of Township 21 South, Range 34 East, and Sections 7 and 18 of Township 21 South, Range 35 East, Wilson Yates-Seven Rivers Pool, Lea County, New Mexico. Applicant, seeks authority to continue to dispose of produced water in seven unlined surface pits located in the center of the W/2 of said Section 13, center of the W/2 SE/4 of said Section 13, SW/4 NE/4 of said Section 23, center of SW/4 of said Section 24, center of the NE/4 of said Section 7, NE/4 SW/4 of said Section 7, NW/4 NW/4 of said Section 18.

(Case 3859 continued)

In the alternative, applicant seeks an extension of time in which to comply with the provisions of said order.

CASE 4337: Application of Petroleum Corporation of Texas for an exception to Order No. R-3221, as amended, Eddy 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 applicant's Dexter Hanagan Graridge Federal Well No. 1 located in Unit J, Section 22, Township 17 South, Range 30 East, Jackson-Abo Pool, Eddy County, New Mexico. Applicant seeks authority to dispose of salt water produced by said well in an unlined surface pit in the vicinity of said well.

CASE 4338: Application of Skelly Oil Company for a waterflood project, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks authority to institute a waterflood project on its Lea "D" Lease by selective injection of water into various zones of the Grayburg-Jackson Pool through three wells located in Units B, H, and J of Section 26, Township 17 South, Range 31 East, Eddy County, New Mexico. Applicant further seeks a procedure whereby said project may be expanded administratively without a showing of well response.

CASE 4339: Southeastern nomenclature case calling for an order for the creation of certain new pools and the assignment of oil discovery allowables and the contraction and extension of certain other pools in Lea, Chaves and Eddy Counties, New Mexico.

(a) Create a new pool in Chaves County, New Mexico, classified as an oil pool for San Andres production and designated as the Tower-San Andres Pool comprising the following:

TOWNSHIP 11 SOUTH, RANGE 31 EAST, NMPM
SECTION 3: SE/4

Regular Hearing - April 15, 1970

-4-

Docket No. 10-70

(Case 4339 continued)

Further, for the assignment of approximately 20,740 barrels of oil discovery allowable to the discovery well Phillips Petroleum Company's Marley "A" Well No. 1, located in Unit P of said Section 3.

(b) Create a new pool in Lea County, New Mexico, classified as an oil pool for Pennsylvanian production and designated as the Tres Papalotes-Pennsylvanian Pool, comprising the following:

TOWNSHIP 14 SOUTH, RANGE 34 EAST, NMPM
SECTION 33: NE/4

Further, for the assignment of approximately 52,340 barrels of oil discovery allowable to the discovery well Lone Star Producing Company's New Mexico (80) State Well No. 1 located in Unit B of said Section 33.

(c) Create a new pool in Eddy County, New Mexico, classified as an oil pool for Cherry Canyon production and designated as the Sand Dunes-Cherry Canyon Pool. The discovery well is Texas American Oil Corporation's Todd 26 Federal Well No. 2 located in Unit G of Section 26, Township 23 South, Range 31 East, NMPM. Said pool would comprise:

TOWNSHIP 23 SOUTH, RANGE 31 EAST, NMPM
SECTION 26: SW/4 NE/4

(d) Create a new pool in Lea County, New Mexico, classified as an oil pool for Devonian production and designated as the Warren-Devonian Pool. The discovery well is Continental Oil Company's SEMU Burger B No. 58 located in Unit C of Section 29, Township 20 South, Range 38 East, NMPM. Said pool would comprise:

TOWNSHIP 20 SOUTH, RANGE 38 EAST, NMPM
SECTION 29: NW/4

(e) Extend the Buffalo Valley-Pennsylvanian Gas Pool in Chaves County, New Mexico, to include therein:

TOWNSHIP 14 SOUTH, RANGE 27 EAST, NMPM
SECTION 26: S/2

Regular Hearing

April 15, 1970

-5-

Docket No. 10-70

(Case 4339 continued)

(f) Extend the East Caprock-Devonian Pool in Lea County, New Mexico, to include therein:

TOWNSHIP 12 SOUTH, RANGE 32 EAST, NMPM
SECTION 23: NE/4

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

TOWNSHIP 17 SOUTH, RANGE 25 EAST, NMPM
SECTION 23: NW/4 NW/4

(h) Extend the South Eunice-San Andres Pool in Lea County, New Mexico, to include therein:

TOWNSHIP 22 SOUTH, RANGE 37 EAST, NMPM
SECTION 11: NE/4

(i) Extend the Maljamar Grayburg-San Andres Pool in Lea County, New Mexico, to include therein:

TOWNSHIP 17 SOUTH, RANGE 33 EAST, NMPM
SECTION 9: NE/4
SECTION 10: NW/4

(j) Extend the Quail Ridge-Morrow Gas Pool in Lea County, New Mexico, to include therein:

TOWNSHIP 19 SOUTH, RANGE 34 EAST, NMPM
SECTION 20: All

(k) Extend the Round Tark-Queen Pool in Chaves County, New Mexico, to include therein:

TOWNSHIP 15 SOUTH, RANGE 29 EAST, NMPM
SECTION 30: W/2 NW/4 and NW/4 SW/4

(l) Extend the Shugart Pool in Eddy County, New Mexico, to include therein:

TOWNSHIP 18 SOUTH, RANGE 30 EAST, NMPM
SECTION 25: W/2 NW/4

(m) Contract the Bough Permo- Pennsylvanian Pool in Lea County, New Mexico, by the deletion of the following described area:

TOWNSHIP 9 SOUTH, RANGE 35 EAST, NMPM
SECTION 14: S/2

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

TOWNSHIP 9 SOUTH, RANGE 33 EAST, NMPM
SECTION 13: S/2

TOWNSHIP 9 SOUTH, RANGE 34 EAST, NMPM
SECTION 18: S/2

TOWNSHIP 9 SOUTH, RANGE 35 EAST, NMPM
SECTION 10: SE/4
SECTION 14: S/2
SECTION 15: NE/4
SECTION 16: NW/4

OIL CONSERVATION COMMISSION

P. O. BOX 2088

SANTA FE, NEW MEXICO 87501

April 21, 1969

C
O
P
Y

Commissioner of Public Lands
for the State of New Mexico
State Land Office Building
Santa Fe, New Mexico

Re: Case No. 4084 - Application of
Olen F. Featherstone for the
creation of a new pool and special
pool rules, Lea County, New Mexico

Attention: Mr. Ted Bilberry

Gentlemen:

Application in the above-described case was filed with the
Commission on March 4, 1969. The case was heard before an
examiner on March 26, 1969.

Order No. R-3732, effective April 18, 1969, created the
Feather-Wolfcamp Pool, Lea County, New Mexico and established
160-acre spacing and proration units therefor.

Very truly yours,

A. L. PORTER, Jr.
Secretary-Director

ALP/ir

4-10-69 11 A.M.
Tele. Conversation w/ Joe

4-10-69.

Call Pool Deather - W.C.

New Pool. Use ~~Bathstone~~

about 1/2 log as a type

Log for new pool. w/

~~30 ft log~~ Test. Limits
to bed from 9499 - 9630 as
shown on well log.

Case 4084
Heard 3-26-69
Rec. 4-10-69.

Nominature

Grant Skutumpah request
for a new pool and special
pool rules for his discovery
well the Cabot State #1, C-29-
15S-32E. Establish a pool con-
sisting of the NW 1/4 of sec. 29 to
be called the Defton W.C.
Gas Pool. Vertical limits
to be from the top of the well
perfs at 9497 to a marker
found in said well's log
at 9630. The Cabot St. #1/57
log shall be used as a type
log for other wells in the
area to determine whether
they are in this pool.

Gas rules granting 160 Ac.
spacing, 80 ft. allowable
and locations within
150' of center of any 1/4.

Thos A. [Signature]

The G. Anderson W.C. well
be changed to Perm or Bough
C by Nominature.
[Signature]

B
N. ... , Permian ...

~~1745 - 1750~~
9700
160 A

Q 5236 - ...
5330 Log
5609

21.26



CABOT CORPORATION

P.O. BOX 1101, DALLAS, TEXAS

NEW MEXICO OIL CONSERVATION COMMISSION
P.O. BOX 2088
SANTA FE, NEW MEXICO 87501

99 MAR 22 1969

March 21, 1969

New Mexico Oil Conservation Commission
P. O. Box 2088
Santa Fe, New Mexico 87501

Attention Mr. A. L. Porter

EMA

Gentlemen:

Case 4084 - Application of Olen F. Featherstone
for Creation of New Pool

Cabot Corporation, as royalty owner in Olen F. Featherstone's Cabot-State Well No. 1, Section 29-15-32, Lea County, New Mexico, and as lease owner in the immediate area, hereby wishes to express its support of the application of Olen F. Featherstone in Case 4084. We understand Mr. Featherstone is requesting provisions for 160-acre spacing and proration units and the assignment of 80-acre allowables. It is our belief these rules are required to provide orderly and economic development of the Wolfcamp formation in this area.

Yours very truly,

W. M. Sargent, Jr.

W. M. Sargent, Jr.
Chief Petroleum Engineer

WMSJr:mn

cc: Olen F. Featherstone

Docket No. 3-69

DOCKET: EXAMINER HEARING - WEDNESDAY - MARCH 26, 1969

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

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

- CASE 4078: Application of J. Gregory Merriam for downhole commingling, Rio Arriba County, New Mexico. Applicant, in the above-styled cause, seeks authority to commingle production from the Devils Fork-Gallup Pool and an undesignated Mesaverde oil pool in the well-bore of his NCRA State Well No. 3 located in Unit L of Section 16, Township 24 North, Range 6 West, Rio Arriba County, New Mexico.
- CASE 4079: Application of Robert B. Holt for the creation of a new pool, assignment of a discovery allowable, and the promulgation of special pool rules, Lea County, New Mexico. Applicant, in the above-styled cause, seeks the creation of a new Middle Pennsylvanian oil pool for his Aztec State Well No. 2 located in Unit A of Section 26, Township 13 South, Range 32 East, Lea County, New Mexico, and for the assignment of an oil discovery allowable in the amount of approximately 48,715 barrels to said well. Applicant further seeks the promulgation of special pool rules for said pool, including a provision for 160-acre proration units and the assignment of 80-acre allowables.
- CASE 3975: (Reopened)
In the matter of Case No. 3975 being reopened pursuant to the provisions of Order No. R-3618, which order established 80-acre spacing units for the East Bluitt-San Andres Pool, Roosevelt County, New Mexico, for a period of approximately two months. All interested parties may appear and present evidence as to whether the subject area is indeed a separate common source of supply or an extension of the Bluitt-San Andres Gas Pool. Further, in the event said East Bluitt-San Andres Pool is found to be an extension of said Bluitt-San Andres Gas Pool, the Commission will consider the amendment of the Special Rules and Regulations governing the Bluitt-San Andres Gas Pool to provide for the classification of oil and gas wells, spacing and well location requirements for oil and gas wells, and an allocation formula for withdrawals from the gas cap and oil rim.
- CASE 4080: Application of Monsanto Company for a unit agreement, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks approval of the Black River Unit Area comprising 14,961.23 acres, more or less, of State, Federal and Fee lands

CASE 4080 - Continued

in Townships 25 and 26 South, Ranges 23 and 24 East,
Eddy County, New Mexico.

CASE 4081: Application of Curtis Hankamer for a unit agreement, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks approval of the Brushy Draw Deep Unit Area comprising 9,672.53 acres, more or less, of State and Federal lands in Township 26 South, Ranges 29 and 30 East, Eddy County, New Mexico.

CASE 4082: Application of Sam D. Ares for salt water disposal, Lea County, New Mexico. Applicant, in the above-styled cause, seeks authority to inject produced salt water into the Yates-Seven Rivers formation in the open-hole interval from approximately 3358 to 3495 feet in his Arnott Ramsey "A" Well No. 3, located 660 feet from the North and West lines of Section 2, Township 25 South, Range 36 East, Jalmat Yates Seven Rivers Pool, Lea County, New Mexico.

CASE 4083: Application of Gulf Oil Corporation for downhole commingling, Lea County, New Mexico. Applicant, in the above-styled cause, seeks authority to commingle production from the Penrose Skelly Pool and the Paddock Pool in the well-bore of its Eunice King Well No. 7 located in Unit G of Section 28, Township 21 South, Range 37 East, Lea County, New Mexico, with the provision that no more than one allowable will be produced from said well.

CASE 4084: Application of Olen F. Featherstone for the creation of a new pool and for special pool rules, Lea County, New Mexico. Applicant, in the above-styled cause, seeks the creation of a new Wolfcamp oil pool for his Cabot State Well No. 1 located in the NE/4 NW/4 of Section 29, Township 15 South, Range 32 East, Lea County, New Mexico, and for the promulgation of special rules therefor including a provision for 160-acre spacing and proration units and the assignment of 80-acre allowables.

CASE 4085: Application of Tamarack Petroleum Corporation, Inc. for salt water disposal, Lea County, New Mexico. Applicant, in the above-styled cause, seeks authority to dispose of produced salt water into the Queen formation in the perforated interval from approximately 4948 feet to 5043 feet in its Cabot 23 State Well No. 2 located in Unit C of Section 23, Township 19 South, Range 35 East, Pearl-Queen Pool, Lea County, New Mexico.

- CASE 4086: Application of Hansen Oil Company for a dual completion and salt water disposal, Lea County, New Mexico. Applicant, in the above-styled cause, seeks authority to dually complete its CSA Federal Well No. 1 located in Unit 2 of Section 29, Township 26 South, Range 37 East, Scarborough Yates-Seven Rivers Pool, Lea County, New Mexico, in such a manner as to permit production of oil from the Yates formation and the disposal of produced salt water into the Seven Rivers formation through parallel strings of tubing.
- CASE 4087: Application of Solar Oil Company for a dual completion, Lea County, New Mexico. Applicant, in the above-styled cause, seeks approval for the dual completion (conventional) of its McCallister Well No. 1 located in Unit 3 of Section 7, Township 22 South, Range 38 East, Lea County, New Mexico, to produce oil from undesignated Drinkard and Abo oil pools through parallel strings of tubing.
- CASE 4071: (Continued from the March 19, 1969, Regular Hearing)
Application of C. J. Sivley for a dual completion and salt water disposal, Lea County, New Mexico. Applicant, in the above-styled cause, seeks authority to dually complete his Federal Silver Well No. 4 located in the SW/4 SE/4 of Section 28, Township 20 South, Range 34 East, Lynch Yates-Seven Rivers Pool, in such a manner as to permit production of oil from the Yates-Seven Rivers formations and the disposal of produced salt water into the Lower Seven Rivers formation.
- CASE 4088: Application of Paul M. Mershon, Jr., for compulsory pooling, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks an order pooling all mineral interests in the Upper Pennsylvanian formation underlying Section 21, Township 22 South, Range 23 East, Eddy County, New Mexico. Said acreage to be dedicated to a well to be drilled at an unorthodox gas well location 990 feet from the North and East lines of said Section 21, and within one mile of the Indian Basin-Upper Pennsylvanian Gas Pool. Also to be considered will be the costs of drilling said well, a charge for the risk involved, a provision for the allocation of actual operating costs, and the establishment of charges for supervision of said well.
- CASE 4089: Application of Paul M. Mershon, Jr., for an unorthodox gas well location, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks an exception to the special rules and regulations governing the Indian Basin-Upper Pennsylvanian Gas Pool to permit the drilling of a well at an unorthodox gas well location 990 feet from the North and East lines of Section

21, Township 22 South, Range 23 East, Indian Basin-
Upper Pennsylvanian Gas Pool, Eddy County, New Mexico.

CASE 4090: Application of Getty Oil Company for an exception to Commission 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 cementing rules as set forth in Commission Order No. R-111-A. Applicant proposes to re-enter and deepen approximately 3500 feet in the Yates formation four wells located in Sections 19 and 30 of Township 20 South, Range 34 East, Lea County, New Mexico, in such a manner as to eliminate the necessity of running the salt protection string provided the production string would be cemented to the surface.

CASE 4091: Application of Union Oil Company of California for a dual completion and salt water disposal, Lea County, New Mexico. Applicant, in the above-styled cause, seeks authority to dually complete its Elliott Federal Well No. 1 located in Unit O of Section 27, Township 11 South, Range 38 East, Lea County, New Mexico, in such a manner as to permit the production of oil from the Field Ranch-Wolfcamp Pool and the disposal of produced salt water into the San Andres, Glorieta, Blinberry, Tubb and Abo formations in the open-hole interval from approximately 4458 feet to 8050 feet.

TENNECO OIL COMPANY

A Major Equipment of Tenneco Inc.
P.O. BOX 1231 • 1935 WILCO BUILDING • MIDLAND, TEXAS 79701



March 11, 1969

269 MAR 12 1969

Case 4084

Mr. A. L. Porter
Oil Conservation Commission
Box 2088
Santa Fe, New Mexico 87501

Dear Mr. Porter:

The application of Olen Featherstone for the formation of a new pool, and adoption of a 160 acre proration unit surrounding their recent discovery, NE NW Section 29, T-15-S, R-32-E, will be heard March 26, 1969.

Tenneco Oil Company has no objections to this spacing unit.

Sincerely,

TENNECO OIL COMPANY

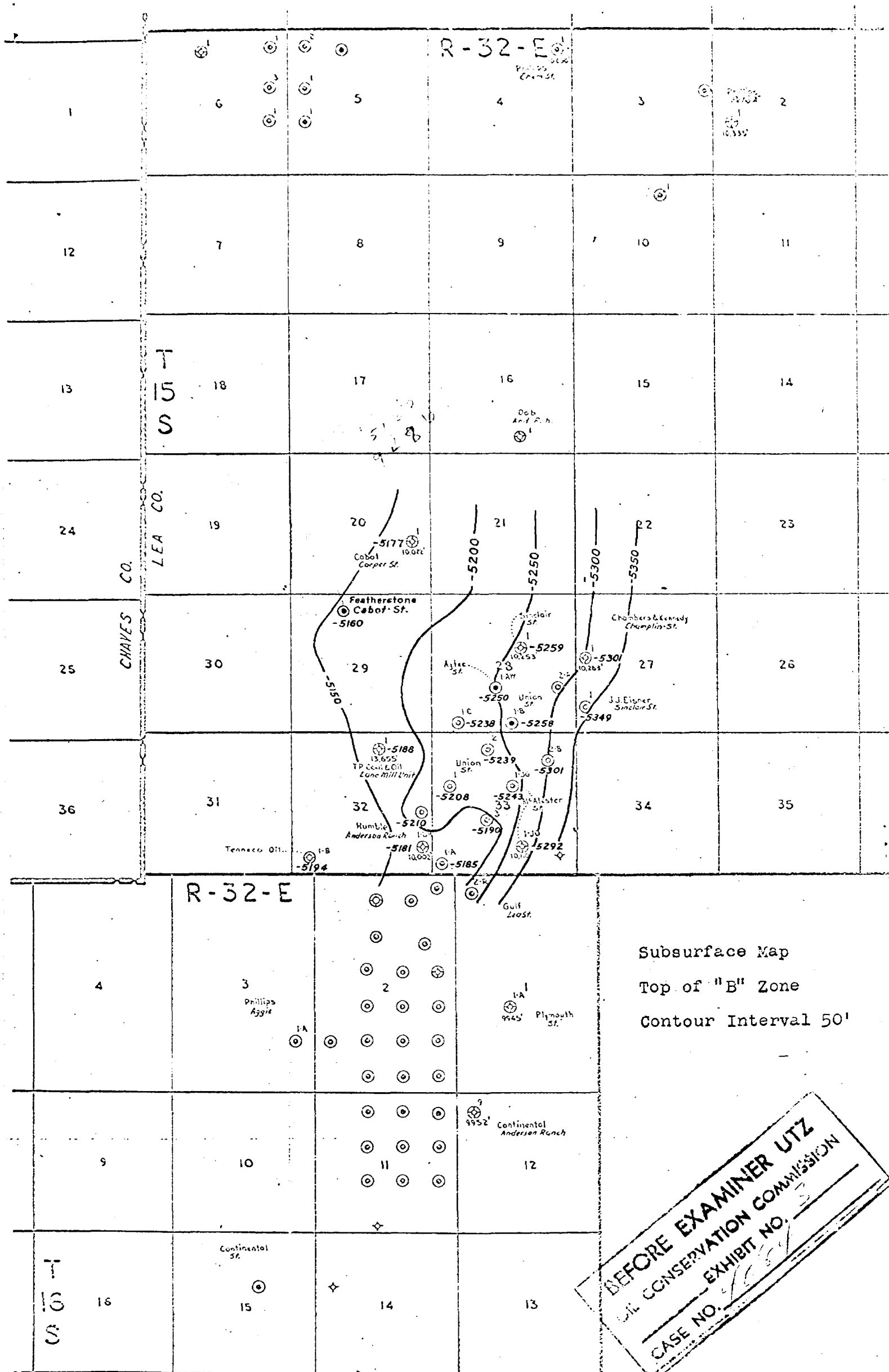
C. H. Madsen
C. H. Madsen
Geologist

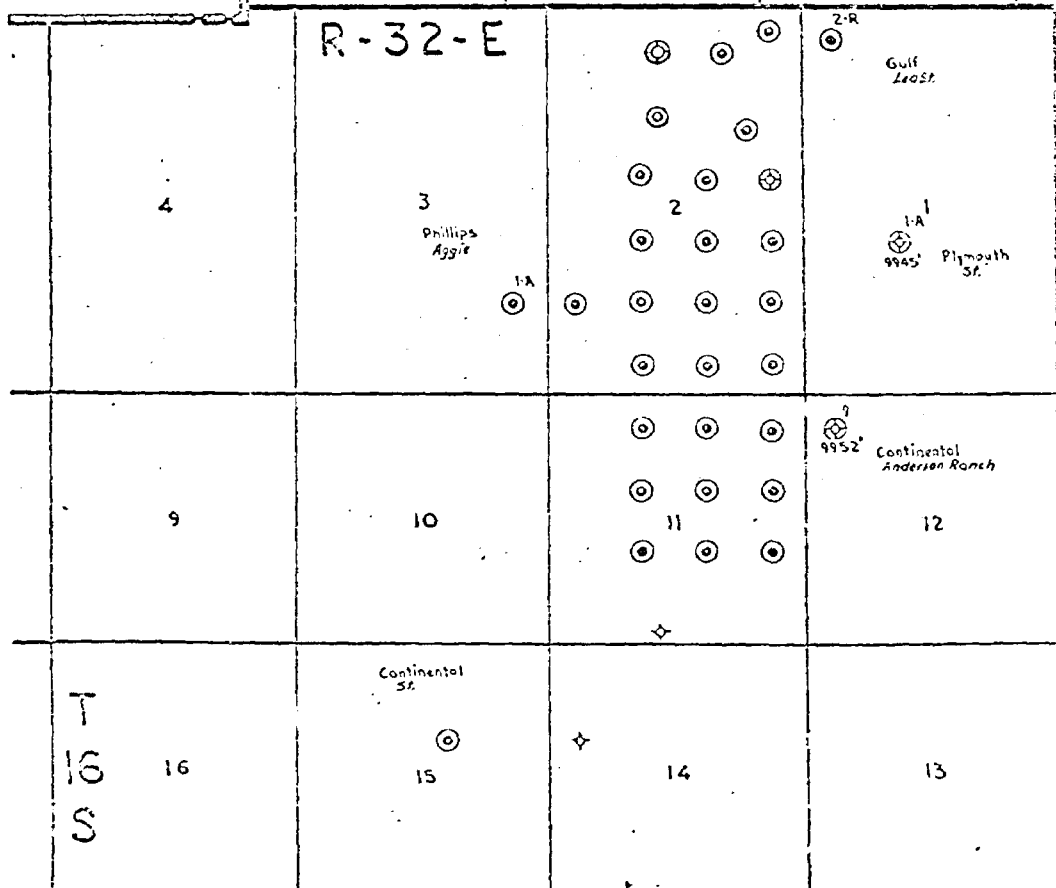
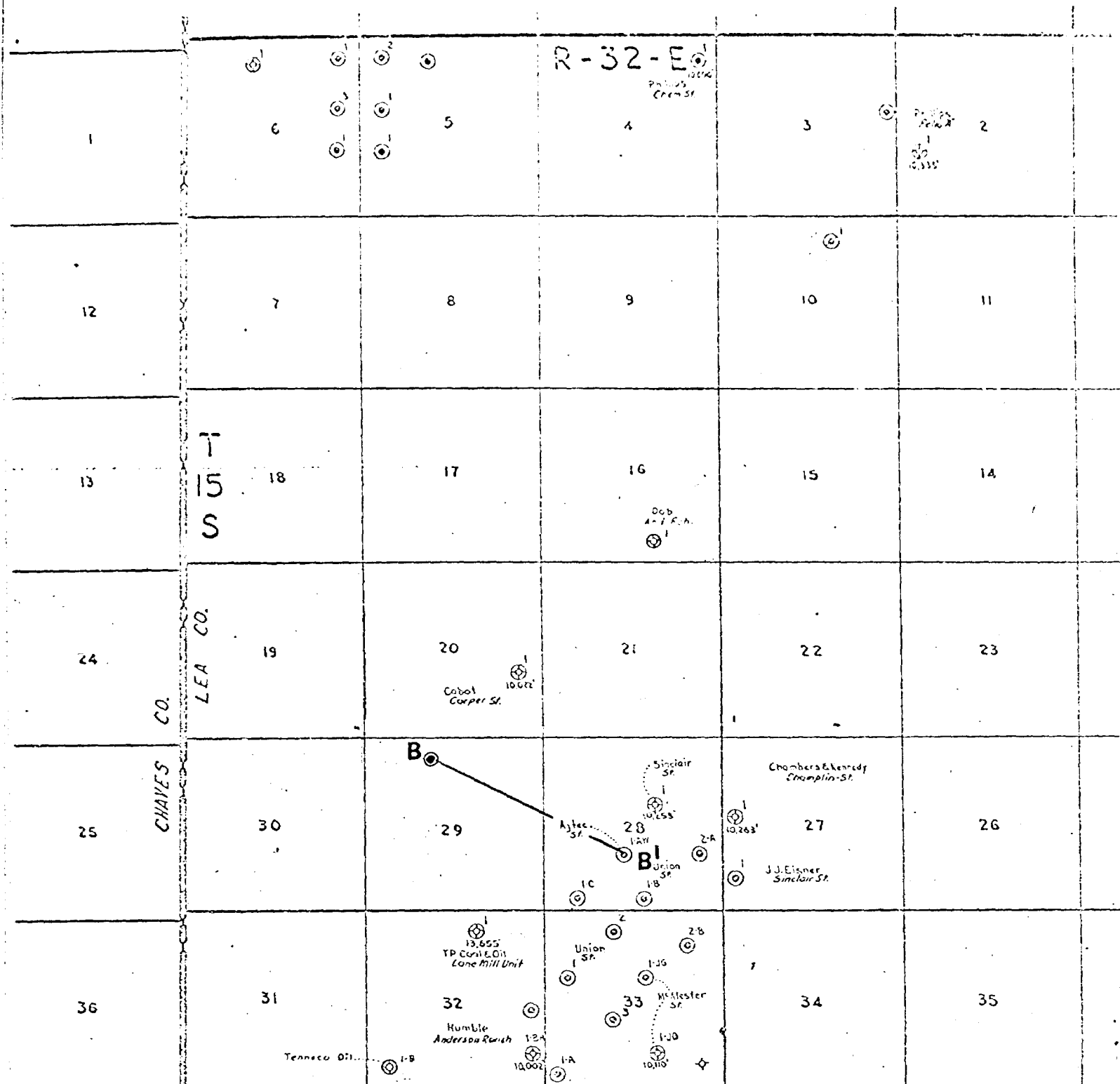
CHM/lba

cc: Olen Featherstone
Roswell, New Mexico

William B. Barnhill
Roswell, New Mexico

<p>14</p> <p>15</p> <p>16</p> <p>17</p> <p>18</p> <p>19</p> <p>20</p> <p>21</p> <p>22</p> <p>23</p> <p>24</p> <p>25</p> <p>26</p> <p>27</p> <p>28</p> <p>29</p> <p>30</p> <p>31</p> <p>32</p> <p>33</p> <p>34</p> <p>35</p> <p>36</p> <p>37</p> <p>38</p> <p>39</p> <p>40</p> <p>41</p> <p>42</p> <p>43</p> <p>44</p> <p>45</p> <p>46</p> <p>47</p> <p>48</p> <p>49</p> <p>50</p> <p>51</p> <p>52</p> <p>53</p> <p>54</p> <p>55</p> <p>56</p> <p>57</p> <p>58</p> <p>59</p> <p>60</p> <p>61</p> <p>62</p> <p>63</p> <p>64</p> <p>65</p> <p>66</p> <p>67</p> <p>68</p> <p>69</p> <p>70</p> <p>71</p> <p>72</p> <p>73</p> <p>74</p> <p>75</p> <p>76</p> <p>77</p> <p>78</p> <p>79</p> <p>80</p> <p>81</p> <p>82</p> <p>83</p> <p>84</p> <p>85</p> <p>86</p> <p>87</p> <p>88</p> <p>89</p> <p>90</p> <p>91</p> <p>92</p> <p>93</p> <p>94</p> <p>95</p> <p>96</p> <p>97</p> <p>98</p> <p>99</p> <p>100</p>	<p>1</p> <p>2</p> <p>3</p> <p>4</p> <p>5</p> <p>6</p> <p>7</p> <p>8</p> <p>9</p> <p>10</p> <p>11</p> <p>12</p> <p>13</p> <p>14</p> <p>15</p> <p>16</p> <p>17</p> <p>18</p> <p>19</p> <p>20</p> <p>21</p> <p>22</p> <p>23</p> <p>24</p> <p>25</p> <p>26</p> <p>27</p> <p>28</p> <p>29</p> <p>30</p> <p>31</p> <p>32</p> <p>33</p> <p>34</p> <p>35</p> <p>36</p> <p>37</p> <p>38</p> <p>39</p> <p>40</p> <p>41</p> <p>42</p> <p>43</p> <p>44</p> <p>45</p> <p>46</p> <p>47</p> <p>48</p> <p>49</p> <p>50</p> <p>51</p> <p>52</p> <p>53</p> <p>54</p> <p>55</p> <p>56</p> <p>57</p> <p>58</p> <p>59</p> <p>60</p> <p>61</p> <p>62</p> <p>63</p> <p>64</p> <p>65</p> <p>66</p> <p>67</p> <p>68</p> <p>69</p> <p>70</p> <p>71</p> <p>72</p> <p>73</p> <p>74</p> <p>75</p> <p>76</p> <p>77</p> <p>78</p> <p>79</p> <p>80</p> <p>81</p> <p>82</p> <p>83</p> <p>84</p> <p>85</p> <p>86</p> <p>87</p> <p>88</p> <p>89</p> <p>90</p> <p>91</p> <p>92</p> <p>93</p> <p>94</p> <p>95</p> <p>96</p> <p>97</p> <p>98</p> <p>99</p> <p>100</p>	<p>1</p> <p>2</p> <p>3</p> <p>4</p> <p>5</p> <p>6</p> <p>7</p> <p>8</p> <p>9</p> <p>10</p> <p>11</p> <p>12</p> <p>13</p> <p>14</p> <p>15</p> <p>16</p> <p>17</p> <p>18</p> <p>19</p> <p>20</p> <p>21</p> <p>22</p> <p>23</p> <p>24</p> <p>25</p> <p>26</p> <p>27</p> <p>28</p> <p>29</p> <p>30</p> <p>31</p> <p>32</p> <p>33</p> <p>34</p> <p>35</p> <p>36</p> <p>37</p> <p>38</p> <p>39</p> <p>40</p> <p>41</p> <p>42</p> <p>43</p> <p>44</p> <p>45</p> <p>46</p> <p>47</p> <p>48</p> <p>49</p> <p>50</p> <p>51</p> <p>52</p> <p>53</p> <p>54</p> <p>55</p> <p>56</p> <p>57</p> <p>58</p> <p>59</p> <p>60</p> <p>61</p> <p>62</p> <p>63</p> <p>64</p> <p>65</p> <p>66</p> <p>67</p> <p>68</p> <p>69</p> <p>70</p> <p>71</p> <p>72</p> <p>73</p> <p>74</p> <p>75</p> <p>76</p> <p>77</p> <p>78</p> <p>79</p> <p>80</p> <p>81</p> <p>82</p> <p>83</p> <p>84</p> <p>85</p> <p>86</p> <p>87</p> <p>88</p> <p>89</p> <p>90</p> <p>91</p> <p>92</p> <p>93</p> <p>94</p> <p>95</p> <p>96</p> <p>97</p> <p>98</p> <p>99</p> <p>100</p>	<p>1</p> <p>2</p> <p>3</p> <p>4</p> <p>5</p> <p>6</p> <p>7</p> <p>8</p> <p>9</p> <p>10</p> <p>11</p> <p>12</p> <p>13</p> <p>14</p> <p>15</p> <p>16</p> <p>17</p> <p>18</p> <p>19</p> <p>20</p> <p>21</p> <p>22</p> <p>23</p> <p>24</p> <p>25</p> <p>26</p> <p>27</p> <p>28</p> <p>29</p> <p>30</p> <p>31</p> <p>32</p> <p>33</p> <p>34</p> <p>35</p> <p>36</p> <p>37</p> <p>38</p> <p>39</p> <p>40</p> <p>41</p> <p>42</p> <p>43</p> <p>44</p> <p>45</p> <p>46</p> <p>47</p> <p>48</p> <p>49</p> <p>50</p> <p>51</p> <p>52</p> <p>53</p> <p>54</p> <p>55</p> <p>56</p> <p>57</p> <p>58</p> <p>59</p> <p>60</p> <p>61</p> <p>62</p> <p>63</p> <p>64</p> <p>65</p> <p>66</p> <p>67</p> <p>68</p> <p>69</p> <p>70</p> <p>71</p> <p>72</p> <p>73</p> <p>74</p> <p>75</p> <p>76</p> <p>77</p> <p>78</p> <p>79</p> <p>80</p> <p>81</p> <p>82</p> <p>83</p> <p>84</p> <p>85</p> <p>86</p> <p>87</p> <p>88</p> <p>89</p> <p>90</p> <p>91</p> <p>92</p> <p>93</p> <p>94</p> <p>95</p> <p>96</p> <p>97</p> <p>98</p> <p>99</p> <p>100</p>
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Cross Section

B - B'

R-32-E

Phillips
Chem. St.

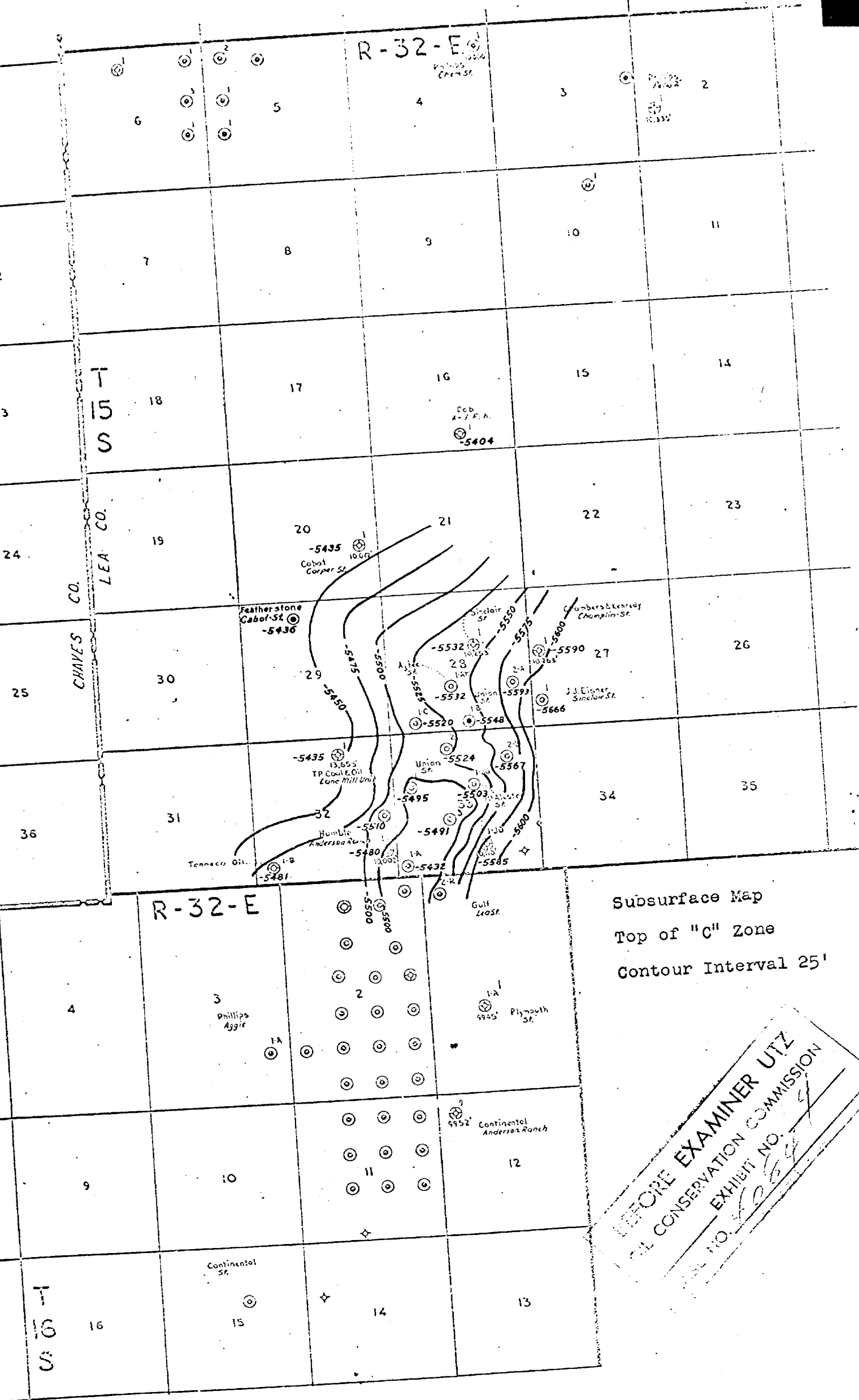
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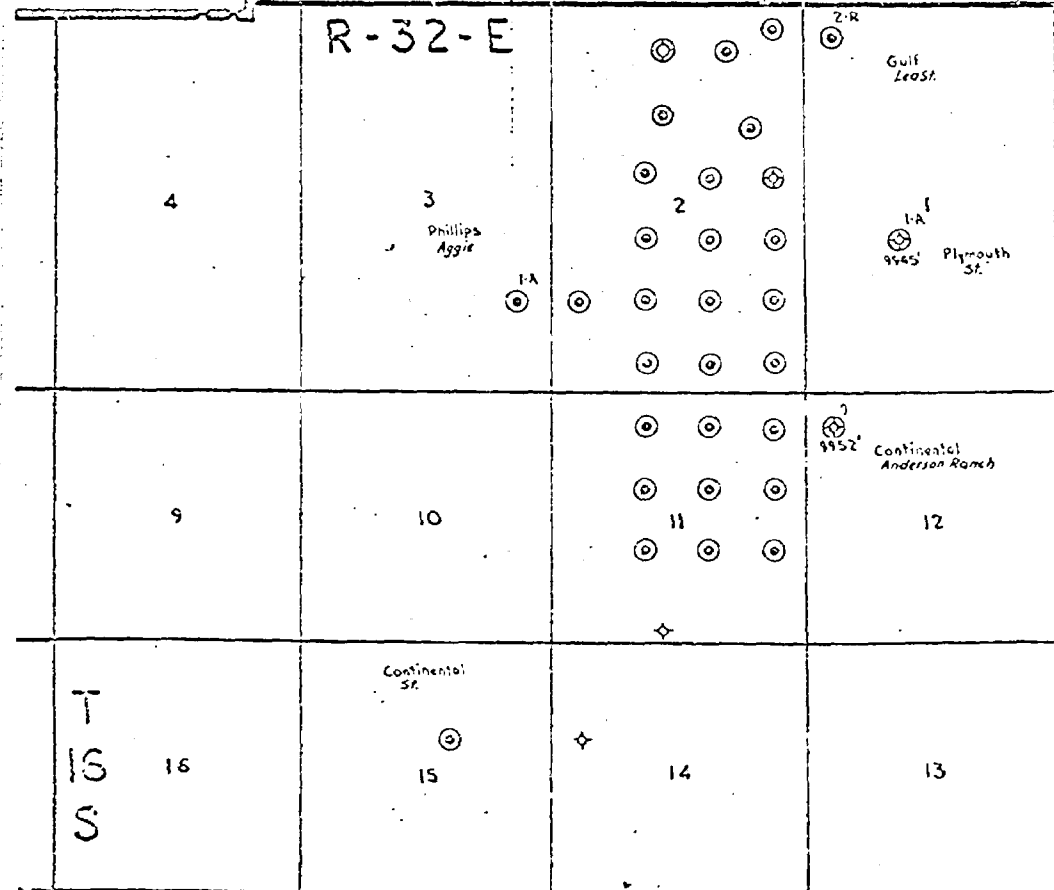
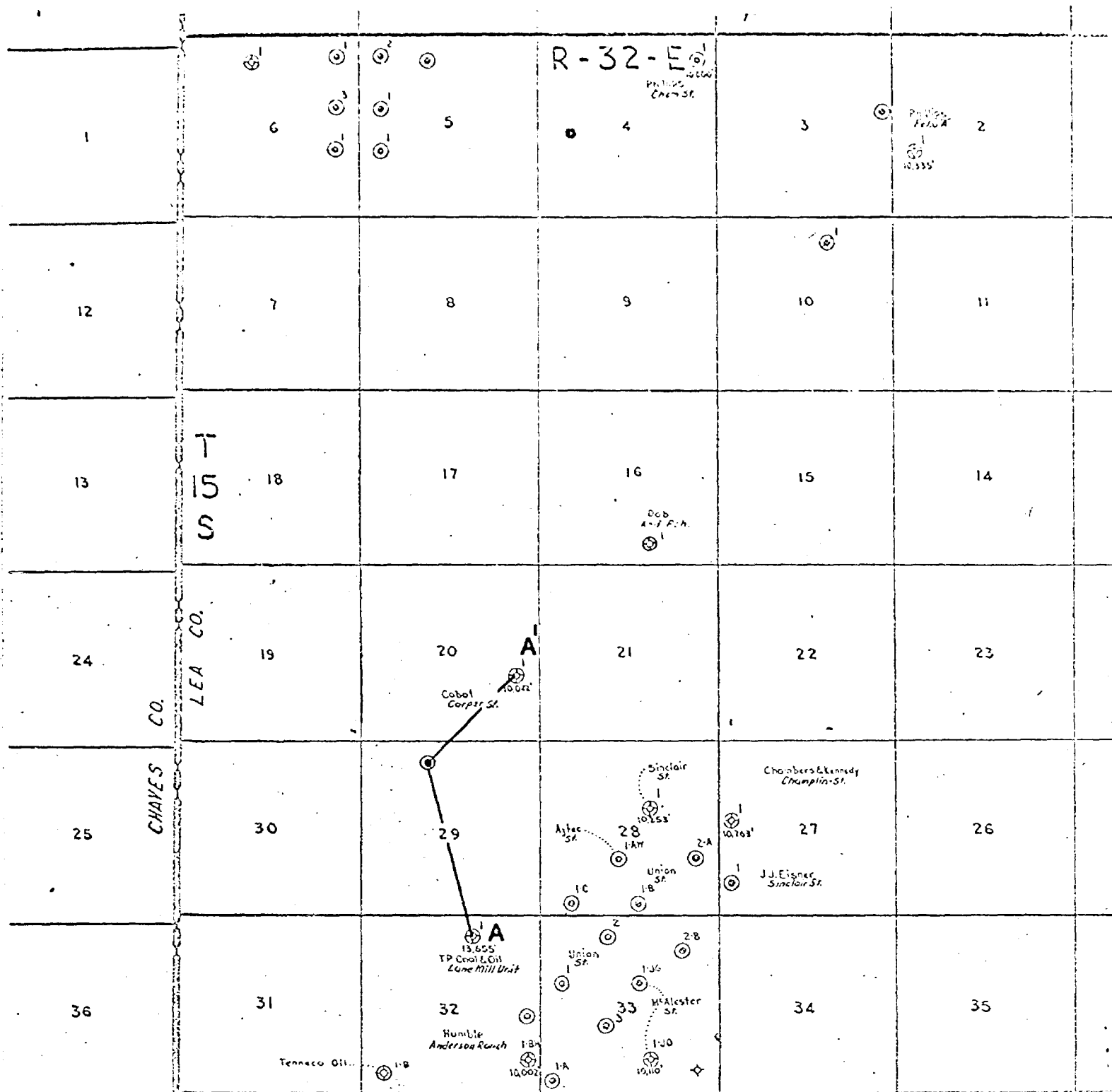
CHAYES CO.
LEA CO.

R-32-E

Subsurface Map
Top of "C" Zone
Contour Interval 25'

BEFORE EXAMINER UTZ
OIL CONSERVATION COMMISSION
EXHIBIT NO. 1064





Cross Section

A - A'

OLEN F. FEATHERSTONE
No. 1 Cabot State
Sec. 29, T. 15S, R. 32E, N.M.P.M.,
Lea County, New Mexico

DRILL STEM TEST

Jan. 30, 1969 DST #1 - 9475' - 9552' 77" No Water Blanket.
Opened tool at 10:10 P.M.
Halliburton tester.
IF 15 min. - opened with good blow - good blow
throughout.
ISI 1 hr.
FF 2 hrs. - gas to surface in 2 min. - good blow -
increased to strong blow - gas very wet.
FSI 2 hrs.

IH 4290#
FH 4290#

PRESSURES

IF 144#
ISI 3380#
FF 288#
FSI 3357#

Temperature - 138°
Oil Gravity - 39°

Recovered: 120' Gas Cut Mud
1000' oil = 10.8 barrels
No Water

Prep to drill ahead.

T. Pay 8497

BEFORE EXAMINER UTZ
OIL CONSERVATION COMMISSION
EXHIBIT NO. <i>5</i>
CASE NO. <i>4064</i>

OLEN F. FEATHERSTONE
NO. 1 CABOT STATE
Sec. 29, T 15S, R 32E, N.M.P.M.,
Lea County, New Mexico
Page Three

DAILY DRILLING REPORT

Feb. 1, 1969 Drilling - 9633' - lime.
Mud Wt. 8.7
Vis. 36
W.L. 11

Feb. 2, 1969 Drilling - 9745' - lime.
Mud Wt. 8.8
Vis. 40
W.L. 11

DST #2 - 9725' - 9778' 53' No Water Blanket
Open tool @ 9:50 P.M.
IF 15 min. - strong blow throughout
ISI 1 hr.
FF 1 hr. 30 min. - strong blow - GTS in 4 min.
FSI 2 hrs.
Recovery:
Oil - 5 barrels plus 120' O&GCM
Mud -
Water - None.
Temp.

IH 4548#
FH 4548#

Pressures

ISI 2395#
FSI 1649#

15 min.	1 hr. 30 min.
IF 115#	IF 207#
FF 138#	FF 277#

Feb. 3, 1969 Going back into hole to drill.
TD - 9778'.

Feb. 4, 1969 DST #3 - 9770' - 9869'. 99'
Tool open @ 11:40 P.M.
15 min. pre-flow.
1 hr. shut in - tool open 3 hrs.
Good blow throughout test - no gas.
Final shut in - 2 hrs.
Recovered 360' drilling mud.

IH - 4650#
FH - 4563#

IF 132#
FF 175#

ISI 833#
FSI 745#.

Feb. 5, 1969 Drilling - 9906' - lime and shale
Mud Wt. 8.9
Vis. 40
W.L. 10

OLEN F. FEATHERSTONE
NO. 1 CABOT STATE
Sec. 29, T 15S, R 32E, N.M.P.M.,
Lea County, New Mexico
Page Four

DAILY DRILLING REPORT

Feb. 6, 1969 DST #4 - 9940-10,030' - Failed to get test.

Feb. 7, 1969 DST #5 - 9940-10,030'
Open tool 8:45 P.M.
IF - 15"
ISI - 1'
FF - 1'
FSI - 1'

Recovered 90' drilling mud

Pressures:

IH - 4671#
FH - 4671#
IF - 65#
FF - 65#
ISI - 3069#
FSI - 1898#

Feb. 8, 1969 TD - 10,290' - circulating and running logs.

Feb. 9, 1969 DST #6 - 10,210' - 10,290' 80' No WB
Open tool @ 10:45 a.m.
IF - 15 min. - open weak - increased to good.
ISI - 1 hr.
FF - 1 hr. 15 min. - open strong; decreased to
end of test.
FSI - 1 hr.
Recovered: 8500' sulfur water.

Pressures:

IH 4822#
FH 4822#
15 min.
IF 548#
FF 2071

1 hr.

ISI 3850#
FSI 3850#

1 hr. 15 min.

IF 2136#
FF 3828#

Temp. - 140°

Feb. 10, 1969 Ran 9994' of 5-1/2" pipe - insert float @ 9961'
Plug down @ 6:00 P.M.
Cemented with 250 sxs 50-50- poz mix.

Feb. 11, 1969 WOC

OLEN F. FEATHERSTONE
NO. 1 CABOT STATE
Sec. 29, T 15S, R 32E, N.M.P.M.,
Lea County, New Mexico
Page Five

DAILY DRILLING REPORT

February 17, 1969 Running tubing today, will perf. and acidize tomorrow.

February 18, 1969 Treatment: Bough C - 9902 - 04, 9917 - 23
(Log Measurements)
Bridge Plug set at 9932, pulled up to 9387 (bottom of packer).
Perforated .21", 1 shot per foot: Schlumberger HyperJet 9818' - 20'-22'
9902' - 03'-04'
9725' - 26'-27'
9499' - 9500' - 9501'
Ran tubing to 9918', spotted acid over perfs 9918' - 20' - 22, 9902' - 03' - 04'.
Raised tubing and set packer @ 9878'.
Injected 500 gallons BDA acid, pumped in with oil, 1 BO flush (used 2 BO in front of acid),
Max. pressure 6500#.
Average injection pressure 6300#.
Immediate shut in pressure 5500#.
Shut in pressure 15 min. - 1800#.
Average injection rate 8/10ths barrel per minute.
Shut down for darkness.

February 19, 1969 255# pressure on tubing, commenced swabbing @ 8:30 a.m.
Swabbed back 39 barrels oil, started swabbing back sulphur water.
Fluid level stood @ 2,000' while swabbing.
Shut down for lunch and fluid level rose to 1400' from surface.
Unseated packer, picked up bridge plug, moved up to 9735', and set bridge plug.

February 20, 1969 Treatment: Bough C 9725-27' (Log Measurements)
500 gallons BDA acid; plug set @ 9735'.
Spotted acid over perforations 9725-26-27'.
Raised tubing and set packer @ 9685', started injecting acid @ 8:15 A.M.
Formation broke @ 3000#; pressure continued to rise while pumping acid.
Maximum pressure 5400#.
Average pressure 5250#.
Final pressure 5400#.
Immediate shut in pressure 5400#.
15 min. shut in pressure 5000#.
Stopped pumping @ 9:51 A.M.
Total fluid injected 13 barrels.
Started swabbing 10:15, swabbed until 4:00 P.M., last swab pulled off bottom; recovered a total of 55 barrels oil with only a trace of acid water and very little acid gas.
39 barrels oil pumped behind acid.
55 barrels oil minus 39 barrels oil - 16 barrels oil in approx. 6 hours. 16 barrels new oil in 6 hours swabbing. This indicates formation gave up fluid at approximately 2-1/2 barrels per hour or 60 barrels per day. Well making fair amount of gas.

Second treatment - same zone: 500 gal. BDA acid.

OLEN F. FEATHERSTONE
NO. 1 CABOT STATE
Sec. 29, T 15S, R 32E, N.M.P.M.,
Lea County, New Mexico

February 20, 1969 TREATMENT: Bough C - 9725'-27' (log measurement)
500 gallons BDA; plug set @ 9735'.
Spotted acid over perforations 9725'-26'-27'.
Raised tubing and set packer @ 9685'.
Started injecting acid @ 8:15 a.m.
Formation broke @ 3000#.
Pressure continued to rise while pumping acid.
Maximum pressure 5400#.
Average pressure 5250#.
Final pressure 5400#.
Immediate shut in pressure 5400#.
15 min. shut in pressure 5000#.
Stopped pumping @ 9:51 a.m.
Total fluid injected 13 barrels.
Started swabbing 10:15 a.m., swabbed
until 4:00 p.m.
Last swab pulled off bottom.
Recovered a total of 55 barrels oil
with only a trace of acid water and
very little acid gas.
39 barrels oil pumped behind acid.
55 barrels oil minus 39 barrels oil - 16 barrels
oil in approx. 6 hours.
- 16 barrels new oil in 6 hours swabbing.
This indicates formation gave up fluid
at approximately 2-1/2 barrels per hour
or 60 barrels per day.
Well making fair amount of gas.

SECOND TREATMENT Same zone: 500 gal. BDA.
With packer set as above started injecting
500 gallons BDA followed by oil.
When 39 barrels total fluid injected,
well began to pressure up.
Formation broke at 3000#.
Average pressure 4400#.
Maximum pressure 4600#.
Final pressure 4600#.
Immediate shut in pressure 400#.
Average injection rate 1.7 barrels per min.
Total fluid injected - 12 barrels acid and
42 barrels oil.
Started swabbing back. Swabbed back 15
barrels and shut in due to darkness.

OLEN F. FEATHERSTONE
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Sec. 29, T 15S, R 32E, N.M.P.M.,
Lea County, New Mexico

February 21, 1969 Well on vacuum. Fluid level 6,000' to 6,500'
from surface. Swabbed until noon and recovered
— 31 barrels oil with no sign of acid water,
acid gas or gas. Fluid level at 8,000'.

At 12:00 noon had swabbed 31 BO - no sign
of acid water, acid gas and no gas.
Fluid standing at 7,000'.

Well beginning to make fluid.

4:45 p.m. swabbed back 50 BO.

Swabbing off bottom about 1" per swab.

Last three pulls had a little acid water.

Swab rates:

1:45 to 3:15 - 2" - 5.5 BO

3:15 to 4:30 - 2" - 5.5 BO

Total - 2-3/4 hr. - 11 BO

— Average 4 BO per hr = 96 BOPD rate.

OLEN F. FEATHERSTONE
NO. 1 CABOT STATE
Sec. 29, T 15S, R 32E, N.M.P.M.,
Lea County, New Mexico

February 22, 1969 Treatment - Bough 'B' (log measurement)
Perforations to treat - 9499'-9500'-01'
1 shot per foot .21" Hyperjet
Set BP at 9686'
Raised tubing to 9507'
Spotted acid - raised tubing to 9475'
and set packer.
Injected 500 gallons BDA -
Started taking acid at 2900#.
Maximum pressure 3150#.
Average pressure 3000#.
Final pressure 3000#.
Immediate shut in - 3000#.
15 min. shut in - 1400#.
Average injection rate - 6 GPM.
Injected fluids as follows:
2 BO
12 B Acid
38 BO
Started swabbing 12:00 noon.
At 4:15 p.m. had swabbed back 30 BO
followed by 12 barrels acid water.
At 4:55 p.m. had recovered 45.4 BO.
Shut in for darkness.

February 23, 1969 775 # tubing pressure.
Opened to flow on 14/64" choke @ 7:30 a.m.
7:30 a.m. to 9:15 a.m. - flowed 11 BO.
9:15 a.m. to 9:45 a.m. - flowed 5-1/2 BO.
9:45 a.m. to 10:15 a.m. - flowed 2-3/4 BO (240# TP)
10:15 a.m. to 11:45 a.m. - flowed
11:45 a.m. - 4:45 p.m. - flowed (5 hr) 16.55 BO -
(3.31 BOPH - 160# TP)
4:45 p.m. to 5:15 p.m. - approximately 3 BOPH rate.
Left well flowing overnight.

February 24, 1969 7:45 a.m. (22-1/2 hrs.) well flowed 23.44 BO.
Decided to re-treat with 1000 gallons
regular acid - 20%.

Field _____
 State _____ County _____
 Company _____
 Well No. _____
 Sec. _____ Blk. _____ Survey _____
 T. N. _____ S. _____ E. _____ W. _____
 Contractor _____
 Remarks _____
 Date Loc. _____ Comm. 9-12-62 Comp. 11-20-62
 Elev. _____ T. D. 10,020 P. B. _____
 Pay _____
 From _____ to _____ to _____
 Ack. _____
 Casing Record: 15-1/2" x 52' 7"
 20" 10" 5"
 16" 8" 15" 99' 6"

10-17 9575 15. DST 72: 9575-9575. 2-3/4".
 10-18 9575 15. DST 72: 9575-9575. 2-3/4".
 10-19 9575 15. DST 72: 9575-9575. 2-3/4".
 10-20 9575 15. DST 72: 9575-9575. 2-3/4".
 10-21 9575 15. DST 72: 9575-9575. 2-3/4".
 10-22 9575 15. DST 72: 9575-9575. 2-3/4".
 10-23 9575 15. DST 72: 9575-9575. 2-3/4".
 10-24 9575 15. DST 72: 9575-9575. 2-3/4".
 10-25 9575 15. DST 72: 9575-9575. 2-3/4".
 10-26 9575 15. DST 72: 9575-9575. 2-3/4".
 10-27 9575 15. DST 72: 9575-9575. 2-3/4".
 10-28 9575 15. DST 72: 9575-9575. 2-3/4".
 10-29 9575 15. DST 72: 9575-9575. 2-3/4".
 10-30 9575 15. DST 72: 9575-9575. 2-3/4".
 10-31 9575 15. DST 72: 9575-9575. 2-3/4".

11-1 no report
 11-2 Tearing down derrick.
 11-3 Moving in completion rig.
 11-4 Moved in and rigged up pulling unit. Picked
 up 2" log, displaced hole w/oil. Now prep
 to log and perf.
 11-5 Log correlation log, perf 9879'-9886' (u.s.)
 w/2 holes per foot. Are they any packer, swab
 down to 6500', well began flowing and unloaded
 tubing. Went back to bottom w/swab, getting
 good gas blow, very little fluid, no water,
 prep to work w/mud acid.
 11-6 Treated w/500 gal. mud acid. Max. press.
 5600, broke to 1300. Swabbed to flowing.
 All flowed 56 bbls. and died. Now swab,
 11-7 Swab and flowed 60 bbls. Fluid in 10 hrs.
 10% w/oil. Swab too dry, left shut in overnight.
 11-8 WTP 1500 today. prep to acidize.

BEFORE EXAMINER UTZ
 OIL CONSERVATION COMMISSION
 EXHIBIT NO. 5
 CASE NO. 4084

11-10. ... 11-11. ... 11-12. ... 11-13. ... 11-14. ... 11-15. ... 11-16. ... 11-17. ... 11-18. ... 11-19. ... 11-20. ... 11-21. ... 11-22. ... 11-23. ... 11-24. ... 11-25. ... 11-26. ... 11-27. ... 11-28.

Wildcat, UNION OIL CO. OF CALIF. #1-33 Union-State **NEW OIL DISCOVERY**
Location: NW/part county, 7 mi NE/Maljammar; Sec 33-15S-32E, 1980' ENL 66C' FWL Sec; 5 mi W of S/Saunders Fld, 1/2 mi SE of 13,655' dry hole, 1-1/2 mi N of Anderson Ranch Fld
Spud: 3-26-60; **Comp:** 7-16-60; **Elev:** 4325' DF; **ID:** 13,502; **PB:** 10,227
Casing: 12-3/8" 801/700 sx, 9-5/8" 4175/700 sx, 5-1/2" 10,227/390 sx
Prod. Zone: (Wolfcamp) T/Pay 9823, Prod thru perms 9952-80
IPF: 1,223.7 BOPD thru 30/64" ch, Grav 40, GOR 1550-1, TP 800#, CP pkr
Comp. Info: DST 9482-9555, op 2 hrs, rec 180' OSGCM, 240' MCO, FP 90-165#, SIP 1930#/30 min; DST 9742-80, op 30 min, rec 10' mud, FP 25#, SIP 40#/30 min; DST 9798-9856, op 2 hrs & 10 min, gas in 5 min, mud in 51 min oil in 53 min, flwd est 20 BOPH/1 hr & 20 min, rev out full string oil, FP 435-1305#, SIP 3315#/90 min; Crd 9856-9903' rec 38-1/2' li; Crd 9910-45' rec 21' white poro li, bldg O&G; DST 9862-9945, op 95 min, gas in 5 min, est 6,000,000 CFGPD, flwd 18 BO/30 min, rev out 98 BO, FP 2670-3320#, SIP 3590#/90 min; Crd 9945-88 rec 42-1/2' li, bldg O&G; DST 9948-88, op 2-1/2 hrs, flwd 64 BO/1 hr & 55 min thru 24/64" ch, rev out full string oil, rec 90' MCO, FP 1000-1135#, SIP 3640#/30 min; Crd 9988-10,039 rec 19' li & 30' dark gray sh; DST 9988-10,039, op 2 hrs, rev out 36 BO & 12 BSW, FP 1344-2444#, SIP 2747#/90 min; DST 10,148-161, op 2 hrs, rec 150' muddy SW, FP 100#, SIP 160#/90 min; DST 10,906-11,012, op 2 hrs, rec 40' HO&GCM, FP 715#, SIP 1285#/30 min; DST 11,276-312, op 2 hrs, rec 10' mud, FP 620-1000#, SIP 1000#/90 min; Crd 13,470-502, rec 15' sh & 13' dolo; DST 13,482-502, op 4 hrs, rec 250' G&SWCM & 6600' SW, FP 1249-3000#, SIP 4623#/1 hr; A/1,000 gals
Tops: (El) Anhy. 1320, Yates 2505, Queen 3345, San And. 4093, Glor. 4692, Clrk 6269, Tubb 6928, Abo 7635, Hueco 8966, Canyon 10,594, Chester 12,328, Miss. 12,710, Wdld. 13,402, Dev. 13,480.

[illegible]

COPY
CABOT CORPORATION
BOX 1101
PAMPA, TEXAS

March 21, 1969

New Mexico Oil Conservation Commission
P. O. Box 2002
Santa Fe, New Mexico 87501

Attention Mr. A. L. Dorsey

Gentlemen:

Case 4034 - Application of Olen F. Featherstone
for Oil and Gas Lease

Cabot Corporation, as majority owner in Olen F. Featherstone's Cabot-State Well No. 1, Section 29-15-32, Lea County, New Mexico, and as lease owner in the immediate area, hereby wishes to express its support of the application of Olen F. Featherstone in Case 4034. We understand Mr. Featherstone is requesting provisions for 160-acre spacing and proration units and the assignment of 80-acre allowables. It is our belief these rules are required to provide orderly and economic development of the Holcomb formation in this area.

Yours very truly,

W. H. Sargent, Jr.
W. H. Sargent, Jr.
Chief Petroleum Engineer

WMSJ:am

cc: Olen F. Featherstone

BEFORE EXAMINER UTZ	
OIL CONSERVATION COMMISSION	
EXHIBIT NO.	7
CASE NO.	4034



TENNECO OIL COMPANY • P. O. BOX 1031 • 1800 WILCO BUILDING • MIDDLAND, TEXAS 79701

March 11, 1969

C
Mr. A. L. Porter
Oil Conservation Commission
Box 2088
Santa Fe, New Mexico 87501

Dear Mr. Porter:

O
The application of Olen Featherstone for the formation of a new pool, and adoption of a 160 acre proration unit surrounding their recent discovery, NE NW Section 29, T-15-S, R-32-E, will be heard March 26, 1969.

Tenneco Oil Company has no objection to this spacing unit.

Sincerely,

P
TENNECO OIL COMPANY.

C. H. Madsen
Geologist

CHM/lba

cc: Olen Featherstone
Roswell, New Mexico

Y
William B. Barnhill
Roswell, New Mexico

NEW MEXICO
OIL CONSERVATION COMMISSION

BOX 1980
HOBBS, NEW MEXICO

March 1969
147

NO. _____

SUPPLEMENT TO THE OIL PRORATION SCHEDULE

DATE March 17, 1969

PURPOSE: ALLOWABLE ASSIGNMENT FOR A NEW WELL

Effective March 1, 1969, an allowable of 168 barrels of oil per day
or a total of 5208 barrels for the month is hereby assigned to the
Olen F. Featherstone, Cabot State, 1-C, 29-15-32, Undesignated Lea.
Group 6-A.

NORTH ANDERSON RANCH WOLFCAMP EXTENSION.

BOA c.

JDR/eb

Olen F. Featherstone

Permian

OIL CONSERVATION COMMISSION

SUPERVISOR, DISTRICT NO. 1

OPERATOR'S COPY

DST 9475-9552'
Liquid Production

Olen F. Featherstone
No. 1 Cabot State

B.T. Gauge Numbers		89	91	Ticket Number	149830
Initial Hydrostatic		4328	4338	Elevation	-
Final Hydrostatic		4323	4329	Indicated Production	-
1st Flow	Initial	147	125	1st Flow	-
	Final	147	158	Total Flow	55.0
Initial Closed In Pressure		3390	3394	Drill Collar Length	569
2nd Flow	Initial	216	175	Drill Collar I.D.	2.5
	Final	337	350	Drill Pipe Factor	0.01422
Final Closed In Pressure		3348	3349	Hole Size	7.875
Extrapolated Static Pressure	Initial	-	-	Footage Tested	77
	Final	3474	3480	Mud Weight	8.7
Slope $\frac{dp}{dr}$ cycle P-10	Initial	-	-	Viscosity, Oil or Water	1.8
	Final	3080	3086	Oil API Gravity	40°
				Water Specific Gravity	-

Remarks: RESULTS AS SHOWN ARE COMPUTER CALCULATED...

SUMMARY		Gauge No. 91/ Depth 9542'	Gauge No. 89/ Depth 9549'
Product	Equation	Initial	Final
Production	$Q = \frac{1440 R}{t}$		52.
Transmissability	$\frac{Kh}{\mu} = \frac{162.6 Q}{m}$		21.55
Indicated Flow Capacity	$Kh = \frac{Kh}{\mu} \mu$		38.79
Average Effective Permeability	$K = \frac{Kh}{h} \quad h = 4'$		9.698
	$K_i = \frac{Kh}{h_i}$		0.504
Damage Ratio	$DR = .183 \frac{P_s - P_f}{m}$		1.46
Theoretical Potential w/Damage Removed	$Q_1 = Q DR$		76.0
Approx. Radius of Investigation	$b \approx \sqrt{Kt} \text{ or } \sqrt{Kt_0}$		8.25
	$b_1 \approx \sqrt{K_1 t} \text{ or } \sqrt{K_1 t_0}$		-
Potentiometric Surface	$Pot. = EI - CD + 2.319 P_s$		-1486

NOTICE: These calculations are based upon information furnished by you and taken from Drill Stem Test pressure charts, and are furnished you for your information. In furnishing such calculations and evaluations based thereon, Halliburton is merely expressing its opinion. You agree that Halliburton makes no warranty express or implied as to the accuracy of such calculations or opinions, and that Halliburton shall not be liable for any loss or damage, whether due to negligence or otherwise, in connection with such calculations and opinions.

INTERPRETATIONS AND CALCULATIONS

DST 9725-9778'
Liquid Production

Olen F. Featherstone
No. 1 Cabot State

B.T. Gauge Numbers			1516	1496	Ticket Number	060190	
Initial Hydrostatic			4525	4529	Elevation	4326 ft.	
Final Hydrostatic			4513	4520	Indicated Production	1st Flow - bbls. day	
1st Flow	Initial	Time -----	104	104	Total Flow	35 bbls. day	
	Final	15	141	169	Drill Collar Length	590 ft.	
Initial Closed In Pressure			60	2379	2386	Drill Collar I.D.	2.75 in.
2nd Flow	Initial	-----	126	134	Drill Pipe Factor	0.01084 bbls. ft.	
	Final	90	259	266	Hole Size	7.875 in.	
Final Closed In Pressure			120	1636	1642	Footage Tested	4** ft.
Extrapolated Static Pressure	Initial	-	-	-	Mud Weight	8.8 lbs. gal.	
	Final	-	2020	2028	Viscosity, Oil or Water	1.5 cp	
Slope XXXXX P10	Initial	-	-	-	Oil API Gravity	41°*	
	Final	-	606	614	Water Specific Gravity	-	

Remarks: *This gravity was reported when calculation service was requested.
**4' Net pay as reported by Mr. Hicks in Roswell, New Mexico.

SUMMARY		Gauge No. 1516/9770'		Gauge No. 1496/9774'		Units
Product	Equation	Initial	Final	Initial	Final	
Production	$Q = \frac{1440 R}{t}$		34		35	bbls. day
Transmissability	$\frac{Kh}{\mu} = \frac{162.6 Q}{m}$		3.91		4.03	md. ft. cp
Indicated Flow Capacity	$Kh = \frac{Kh}{\mu} \mu$		5.86		6.04	md. ft.
Average Effective	$K = \frac{Kh}{h}$		-		-	md.
Permeability	$K_r = \frac{Kh}{h_i}$		1.465		1.511	md.
Damage Ratio	$DR = .183 \frac{P_s - P_f}{m}$		0.3		0.3	-
Theoretical Potential w/Damage Removed	$Q_1 = Q DR$		34		35	bbls. day
Approx. Radius of Investigation	$b \approx \sqrt{Kt}$ or $\sqrt{Kt_0}$		-		-	ft.
	$b_1 \approx \sqrt{K_1 t}$ or $\sqrt{K_1 t_0}$		12.4		12.6	ft.
Potentiometric Surface *	$Pot. = EI - GD + 2.319 P_s$		-759		-745	ft.

NOTICE. These calculations are based upon information furnished by you and taken from Drill Stem Test pressure charts, and are furnished you for your information. In furnishing such calculations and evaluations based thereon, Halliburton is merely expressing its opinion. You agree that Halliburton makes no warranty express or implied as to the accuracy of such calculations or opinions, and that Halliburton shall not be liable for any loss or damage, whether due to negligence or otherwise, in connection with such calculations and opinions.

OLEN F. FEATHERSTONE
CABOT STATE NO. 1
Sec. 29, T15S-R32E - NMPM
Lea County, New Mexico

RESERVE CALCULATIONS

I. Zone 1. - 9498' - 9502'

h: 5' Microlog Oil Gr.: 39° API measured
Ø: 12% Neutron GOR: 600 assumed
SW: 25% Dual Induction Gas Gr.: 0.95 assumed
BHT: 128°F measured FVF: 1.375 calculated

Stock Tank Oil-in-place is:

$$N = 7758 \cdot 0.12 \cdot \frac{(1.00 - 0.25)}{1.375} \cdot 5$$

= 2,539 bbls/acre

Assuming a recovery factor of 25% for this reservoir,
recoveries for various spacings will be:

a) At 40 acres: 25,388 bbls.
b) At 80 acres: 50,776 bbls.
c) At 160 acres: 101,552 bbls. @ 1.60

II. Zone 2. - 9726' - 9728'

h: 2' Microlog Oil Gr.: 39° API measured
Ø: 7% Neutron GOR: 600 assumed
SW: 26% Dual Induction Gas Gr.: 0.95 assumed
BHT: 129°F measured FVF: 1.375 calculated

Stock Tank Oil-in-place is:

$$N = 7758 \cdot 0.07 \cdot \frac{(1.00 - 0.26)}{1.375} \cdot 2' = 585 \text{ bbls/acre}$$

Assuming recovery factor of 25%, recoveries will be:

a) At 40 acres: 5,850 bbls.
b) At 80 acres: 11,700 bbls.
c) At 160 acres: 23,400 bbls. @ 1.60

BEFORE THE
OIL CONSERVATION COMMISSION OF NEW MEXICO

APPLICATION OF OLEN F. FEATHERSTONE
FOR FORMATION OF A NEW POOL, ADOPTION
OF POOL RULES INCLUDING 160-ACRE
SPACING, LEA COUNTY, NEW MEXICO

Case 4084

A P P L I C A T I O N

Comes now OLEN F. FEATHERSTONE and applies to the Oil Conservation Commission of New Mexico for an order creating a new pool for the production of oil from the Wolfcamp Formation, and for the adoption of pool rules for the development and operation of said pool, and in support thereof would show the Commission:

1. Olen F. Featherstone has completed his No. 1 Cabot State Well for production from the Wolfcamp Formation, said well being located 660 feet from the North line and 1980 feet from the West line of Section 29, Township 15 South, Range 32 East, N.M.P.M., Lea County, New Mexico. The perforated interval in said well is from 9725 feet to 9727 feet, and from 9499 feet to 9501 feet.

2. Applicant proposes that said pool be drilled, spaced and developed on the basis of 160-acre spacing and proration units, with a flexible well location, but with allowables to be assigned on the basis of 80 acres.

3. Information presently available indicates that one well will efficiently and economically drain and develop not less than 160 acres in the Wolfcamp Formation in the area surrounding the above-described well. In order to prevent waste and prevent the drilling of unnecessary wells, 160-acre spacing and proration units should be approved for this pool on a temporary basis, until further information is available. The adoption of said order will prevent waste, and will not

DOCKET MAILED

3-14-69
DEN

impair the correlative rights of owners in the pool.

Attached hereto and made a part of this application is a plat showing the proposed unit to be dedicated to the discovery well, information on the completion of the well, and a microlog of the Wolfcamp Formation in the subject well.

WHEREFORE, applicant prays that this application be set for hearing before the Commission or the Commission's duly appointed examiner, and that after notice and hearing as required by law, the Commission enter its order approving this application as prayed for.

Respectfully submitted,

OLEN F. FEATHERSTONE

BY: James W. Kellahin
KELLAHIN & FOX
POST OFFICE BOX 1769
SANTA FE, NEW MEXICO

ATTORNEYS FOR APPLICANT

OLEN F. FEATHERSTONE
NO. 1 CABOT STATE
Sec. 29, T. 15S, R. 32E, N.M.P.M.,
Lea County, New Mexico

February 20, 1969 TREATMENT: Bough C - 9725'-27' (log measurement)
500 gallons BDA; plug set @ 9735'.
Spotted acid over perforations 9725'-26'-27'.
Raised tubing and set packer @ 9685'.
Started injecting acid @ 8:15 a.m.
Formation broke @ 3000#.
Pressure continued to rise while pumping acid.
Maximum pressure 5400#.
Average pressure 5250#.
Final pressure 5400#.
Immediate shut in pressure 5400#.
15 min. shut in pressure 5000#.
Stopped pumping @ 9:51 a.m.
Total fluid injected 13 barrels.
Started swabbing 10:15 a.m., swabbed
until 4:00 p.m.
Last swab pulled off bottom.
Recovered a total of 55 barrels oil
with only a trace of acid water and
very little acid gas.
39 barrels oil pumped behind acid.
55 barrels oil minus 39 barrels oil - 16 barrels
oil in approx. 6 hours.
16 barrels new oil in 6 hours swabbing.
This indicates formation gave up fluid
at approximately 2-1/2 barrels per hour
or 60 barrels per day.
Well making fair amount of gas.

SECOND TREATMENT

Same zone: 500 gal. BDA.
With packer set as above started injecting
500 gallons BDA followed by oil.
When 39 barrels total fluid injected,
well began to pressure up.
Formation broke at 3000#.
Average pressure 4400#.
Maximum pressure 4600#.
Final pressure 4600#.
Immediate shut in pressure 400#.
Average injection rate 1.7 barrels per min.
Total fluid injected - 12 barrels acid and
42 barrels oil.
Started swabbing back. Swabbed back 15
barrels and shut in due to darkness.

OLEN F. FEATHERSTONE
NO. 1 CABOT STATE
Sec. 29, T.15S, R 32E, N.M.P.M.,
Lea County, New Mexico

February 21, 1969 Well on vacuum. Fluid level 6,000' to 6,500'.
from surface. Swabbed until noon and recovered
31 barrels oil with no sign of acid water,
acid gas or gas. Fluid level at 8,000'.

At 12:00 noon had swabbed 31 BO - no sign
of acid water, acid gas and no gas. ,
Fluid standing at 7,000'.

Well beginning to make fluid.

4:45 p.m. swabbed back 50 BO.

Swabbing off bottom about 1" per swab.
Last three pulls had a little acid water.

Swab rates:

1:45 to 3:15 - 2" - 5.5 BO

3:15 to 4:30 - 2" - 5.5 BO

Total - 2-3/4 hr. - 11 BO

Average 4 BO per hr = 96 BOPD rate.

Case 4084

OLEN F. FEATHERSTONE
NO. 1 CABOT STATE
Sec. 29, T 15S, R 32E, N.M.P.M.,
Lea County, New Mexico

February 22, 1969 Treatment - Bough 'B' (log measurement)
Perforations to treat - 9499'-9500'-01'
1 shot per foot .21" Hyperjet
Set BP at 9686'
Raised tubing to 9507'
Spotted acid - raised tubing to 9475'
and set packer.
Injected 500 gallons BDA -
Started taking acid at 2900#.
Maximum pressure 3150#.
Average pressure 3000#.
Final pressure 3000#.
Immediate shut in - 3000#.
15 min. shut in - 1400#.
Average injection rate - 6 GPM.
Injected fluids as follows:
2 BO
12 B Acid
38 BO
Started swabbing 12:00 noon.
At 4:15 p.m. had swabbed back 30 BO
followed by 12 barrels acid water.
At 4:55 p.m. had recovered 45.4 BO.
Shut in for darkness.

February 23, 1969 775 # tubing pressure.
Opened to flow on 14/64" choke @ 7:30 a.m.
7:30 a.m. to 9:15 a.m. - flowed 11 BO.
9:15 a.m. to 9:45 a.m. - flowed 5-1/2 BO.
9:45 a.m. to 10:15 a.m. - flowed 2-3/4 BO (240# TP)
10:15 a.m. to 11:45 a.m. - flowed
11:45 a.m. - 4:45 p.m. - flowed (5 hr) 16.55 BO -
(3.31 BOPH - 160# TP)
4:45 p.m. to 5:15 p.m. - approximately 3 BOPH rate.
Left well flowing overnight.

February 24, 1969 7:45 a.m. (22-1/2 hrs.) well flowed 23.44 BO.
Decided to re-treat with 1000 gallons
regular acid - 20%.

SCHLUMBERGER

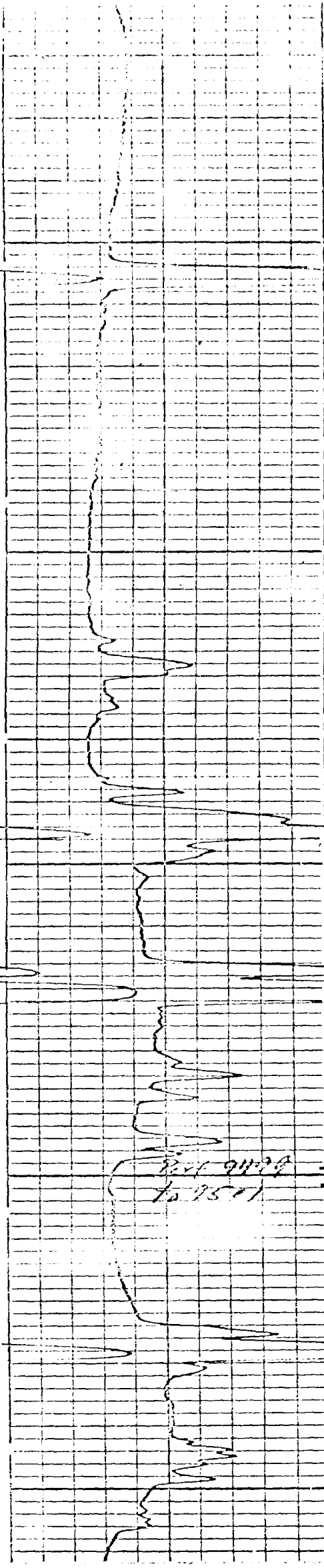
MINERALS
WELL SERVICES

SCHLUMBERGER WELL SURVEYING CORPORATION
HOUSTON, TEXAS

COUNTY FIELD or LOCATION WELL COMPANY	COMPANY	OLEN FEATHERSTONE	OFF			
	WELL	CAROT STATE #1				
	FIELD	ANDERSON (PENN.)				
	COUNTY	LEA	STATE NEW MEXICO			
	LOCATION	1980 FWL + 660 FNL	Other Services: SNP-CR DIL			
	Sec.	29	Twp.	158	Rge.	32 E

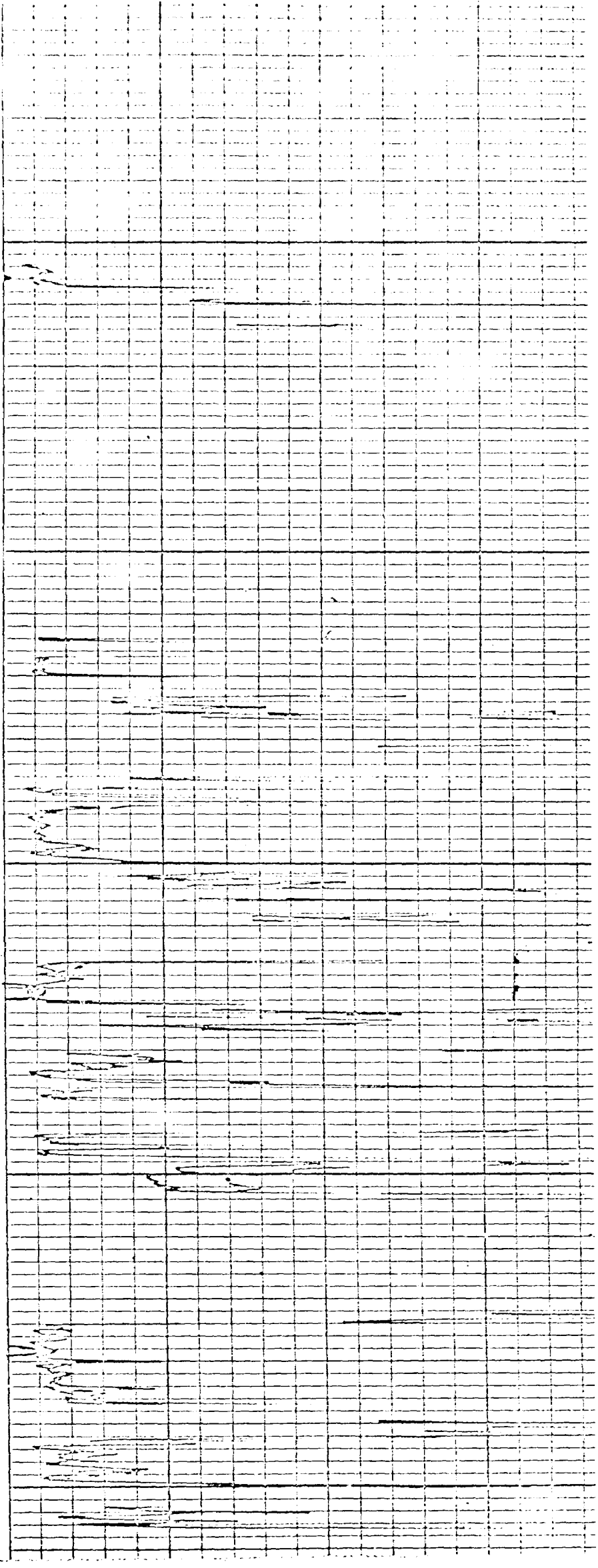
Permanent Datum:	G.L.	Elev.		Elev.: K.B.	4337
Log Measured From	K.B.	Ft. Above Perm. Datum		D.F.	
Drilling Measured From	K.B.			G.L.	

Date	2/9/69			
Run No.	ONE			
Depth—Driller	10290			
Depth—Logger	10291			
Btm. Log Interval	10289			
Top Log Interval	8800			
Casing—Driller	8 5/8 @ 4105	@	@	@
Casing—Logger	4105			
Bit Size	7 7/8			
Type Fluid in Hole	FRESH GEL			
Dens.	9.0	52		
pH	7.5	8.2 ml	ml	ml
Source of Sample	CIRCULATED			
R _m @ Meas. Temp.	1.14 @ 61 °F	@ °F	@ °F	@ °F
R _{mf} @ Meas. Temp.	.88 @ 61 °F	@ °F	@ °F	@ °F
R _{mc} @ Meas. Temp.	1.43 @ 61 °F	@ °F	@ °F	@ °F
Source: R _{mf} R _{mc}	m m			
R _m @ BHT	.56 @ 132 °F	@ °F	@ °F	@ °F
Time Since Circ.	7 HR			
Max. Rec. Temp.	132 °F	°F	°F	°F
Equip. Location	3722 HOODS			
Recorded By	BECK			
Witnessed By	MR. BRINHILL & MR. HILLS			

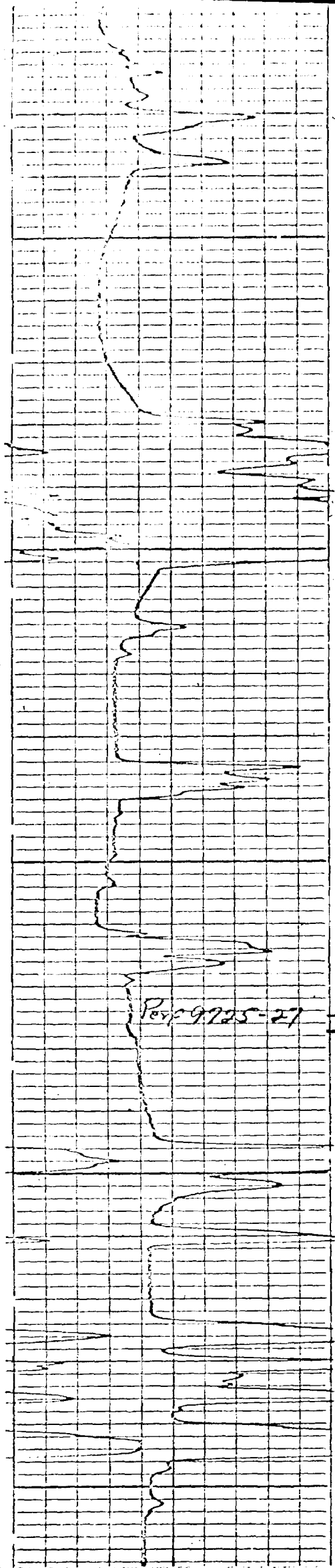


9400

9500



Case 4084

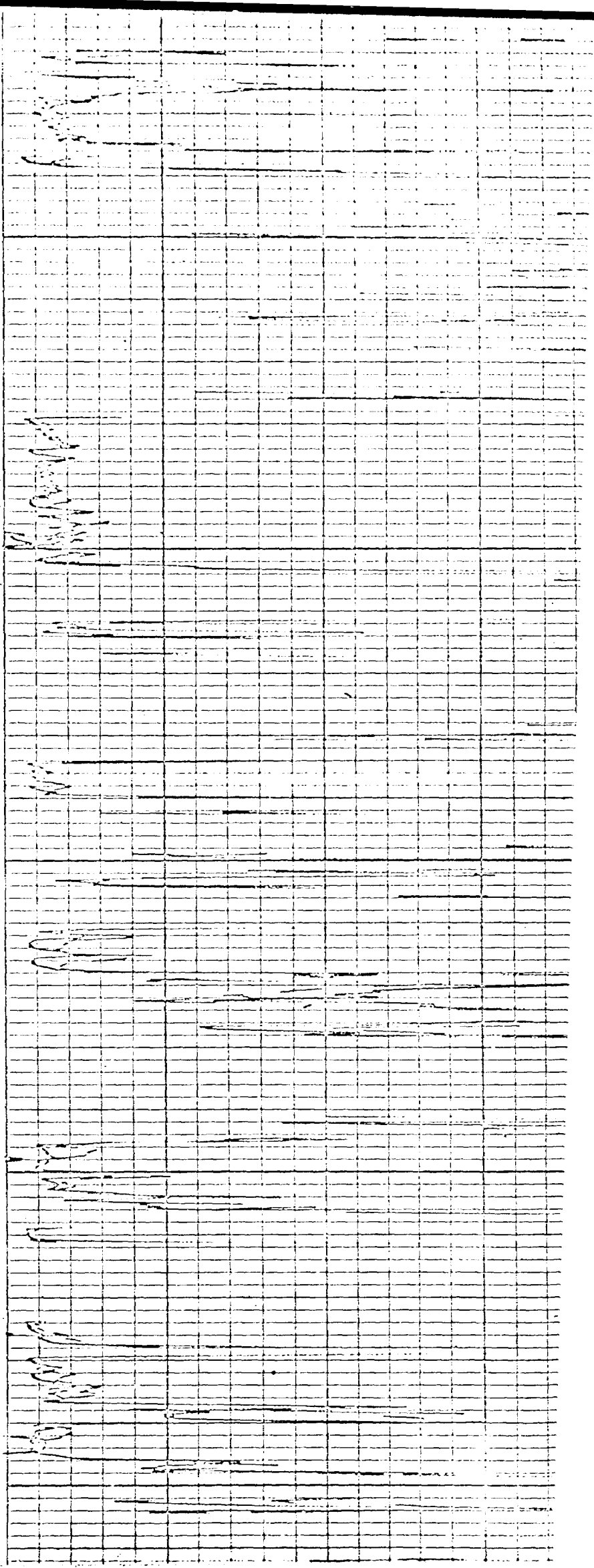


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Pap 9725-27



Case 4084

DRAFT

GMH/esr

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:

RECORDS CENTER & LAW LIBRARY

CASE No. 4084

Order No. R- 3732
NOMENCLATURE

APPLICATION OF OLEN F. FEATHERSTONE
FOR THE CREATION OF A NEW POOL AND
FOR SPECIAL POOL RULES, LEA COUNTY,
NEW MEXICO.

ORDER OF THE COMMISSION

BY THE COMMISSION:

This cause came on for hearing at 9 a.m. on March 26, 1969,
at Santa Fe, New Mexico, before Examiner Elvis A. Utz.

NOW, on this _____ day of _____, 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, Olen F. Featherstone, seeks the
creation of a new oil pool for Wolfcamp production in Lea County,
New Mexico, including a provision for 160-acre spacing units
and the assignment of 80-acre allowables.

(3) That the evidence presently available indicates that
the Olen F. Featherstone Cabot State Well No. 1, located in the
NE/4 NW/4 of Section 29, Township 15 South, Range 32 East, NMPM,
Lea County, New Mexico, *having its top perforations at 9499 feet,* has discovered a separate common source
of supply which should be designated the Feather -
Wolfcamp Pool; that the vertical limits of said pool should be
the Wolfcamp formation as found in the interval from 9499

feet to 9630 feet on the log of the aforesaid Olen F. Featherstone Cabot State Well No. 1; and that the horizontal limits of said pool should be the NW/4 of said Section 29.

(4) That in order to prevent the economic loss caused by the drilling of unnecessary wells, to avoid the augmentation of risk arising from the drilling of an excessive number of wells, to prevent reduced recovery which might result from the drilling of too few wells, and to otherwise prevent waste and protect correlative rights, temporary special rules and regulations providing for 160-acre spacing units and the assignment of 80-acre proportional factor of 4.77 should be promulgated for the Feather-Wolfcamp Pool.

(5) That the temporary special rules and regulations should provide for limited well locations in order to assure orderly development of the pool and protect correlative rights.

(6) That the temporary special rules and regulations should be established for a one-year period in order to allow the operators in the subject pool to gather reservoir information to establish the area that can be efficiently and economically drained and developed by one well.

(7) That this case should be reopened at an examiner hearing in April, 1970, at which time the operators in the subject pool should be prepared to appear and show cause why the Feather-Wolfcamp Pool should not be developed on less than 160-acre spacing units and to show cause why the 80-acre proportional factor of 4.77 assigned to the subject pool should or should not be retained.

IT IS THEREFORE ORDERED:

(1) That a new pool in Lea County, New Mexico, classified as an oil pool for Wolfcamp production, is hereby created and

designated the Feather -Wolfcamp Pool, with vertical limits comprising the Wolfcamp formation as found in the interval from 9400 feet to 9630 feet on the log of the discovery well, Olen F. Featherstone's Cabot State Well No. 1, located in the NE/4 NW/4 of Section 29, Township 15 South, Range 32 East, NMPM, Lea County, New Mexico, and horizontal limits comprising the following-described area:

TOWNSHIP 15 SOUTH, RANGE 32 EAST, NMPM
Section 29: NW/4

(2) That temporary Special Rules and Regulations for the Feather -Wolfcamp Pool, Lea County, New Mexico, are hereby promulgated as follows:

SPECIAL RULES AND REGULATIONS
FOR THE

Feather -WOLFCAMP POOL

RULE 1. Each well completed or recompleted in the Feather -Wolfcamp Pool or in the Wolfcamp formation within one mile thereof, and not nearer to or within the limits of another designated Wolfcamp oil pool, shall be spaced, drilled, operated, and produced in accordance with the Special Rules and Regulations hereinafter set forth.

RULE 2. Each well shall be located on a standard unit containing 160 acres, more or less, substantially in the form of a square, which is a quarter section being a legal subdivision of the United States Public Land Surveys.

RULE 3. The Secretary-Director of the Commission may grant an exception to the requirements of Rule 2 without notice and hearing when an application has been filed for a non-standard unit consisting of less than 160 acres or the unorthodox size or shape of the tract is due to a variation in the legal subdivision of the United States Public Land Surveys. All operators offsetting

the proposed non-standard unit shall be notified of the application by registered or certified mail, and the application shall state that such notice has been furnished. The Secretary-Director may approve the application upon receipt of written waivers from all offset operators or if no offset operator has entered an objection to the formation of the non-standard unit within 30 days after the Secretary-Director has received the application.

RULE 4. *Each well shall be located within 150 feet of the center of a governmental quarter-quarter section or lot.*

RULE 5. The Secretary-Director may grant an exception to the requirements of Rule 4 without notice and hearing when an application has been filed for an unorthodox location necessitated by topographical conditions or the recompletion of a well previously drilled to another horizon. All operators offsetting the proposed location shall be notified of the application by registered or certified mail, and the application shall state that such notice has been furnished. The Secretary-Director may approve the application upon receipt of written waivers from all operators offsetting the proposed location or if no objection to the unorthodox location has been entered within 20 days after the Secretary-Director has received the application.

RULE 6. A standard proration unit (158 through 162 acres) shall be assigned an 80-acre proportional factor of 4.77 for allowable purposes, and in the event there is more than one well on a 160-acre proration unit, the operator may produce the allowable assigned to the unit from the wells on the unit in any proportion.

The allowable assigned to a non-standard proration unit shall bear the same ratio to a standard allowable as the acreage in such non-standard unit bears to 160 acres.

IT IS FURTHER ORDERED:

(1) That the locations of all wells presently drilling to or completed in the Feather-Wolfcamp Pool or in the Wolfcamp formation within one mile thereof are hereby approved; that the operator of any well having an unorthodox location shall notify the Hobbs District Office of the Commission in writing of the name and location of the well on or before

May 1, 1969.

(2) That each well presently drilling to or completed in the Feather-Wolfcamp Pool or in the Wolfcamp formation within one mile thereof shall receive a 40-acre allowable until a Form C-102 dedicating 160 acres to the well has been filed with the Commission, *as required by the Commission's order in this case.*

(3) That this case shall be reopened at an examiner hearing in April, 1970, at which time the operators in the subject pool may appear and show cause why the Feather-Wolfcamp Pool should not be developed on less than 160-acre spacing units and to show cause why the 80-acre proportional factor of 4.77 assigned to the subject pool should or should not be retained.

(4) 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.

DRAFT

GMH/esr

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:

RECORDS CENTER

CASE No. 4084

Order No. R-3732-A

APPLICATION OF OLEN F. FEATHERSTONE
FOR THE CREATION OF A NEW POOL AND
FOR SPECIAL POOL RULES, LEA COUNTY,
NEW MEXICO.

ORDER OF THE COMMISSION

BY THE COMMISSION:

This cause came on for hearing at 9 a.m. on May 13, 19670,
at Santa Fe, New Mexico, before Examiner Daniel S. Nutter.

NOW, on this _____ day of May, 19670, 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 by Order No. R-3732, dated April 18, 1969,
temporary Special Rules and Regulations were promulgated for
the Feather-Wolfcamp Pool, Lea County, New Mexico, establishing
160-acre spacing units and an 80-acre proportional factor of
4.77 for allowable purposes for a period of one year.

(3) That pursuant to the provisions of Order No. R-3732,
this case was reopened to allow the operators in the subject pool
to appear and show cause why the Feather-Wolfcamp Pool should not
be developed on less than 160-acre spacing units and to show
cause why the 80-acre proportional factor of 4.77 should or
should not be retained.

(4) That no operator in the subject pool appeared to show cause why the Feather-Wolfcamp Pool should not be developed on less than 160-acre spacing units and to show cause why the 80-acre proportional factor of 4.77 should or should not be retained.

(5) That only one well is presently producing from the subject pool.

(6) That it is not anticipated that additional wells will be drilled in the subject pool.

(7) That the operators in the subject pool have not established that one well can efficiently and economically drain and develop 160 acres.

(8) That no necessity exists for the continuation of the Special Rules and Regulations promulgated by Order No. R-3732 and that said rules should therefore be abolished.

IT IS THEREFORE ORDERED:

(1) That the Special Rules and Regulations governing the Feather-Wolfcamp Pool, Lea County, New Mexico, promulgated by Order No. R-3732, are hereby abolished.

(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.