

CASE 5946: AMOCO PRODUCTION COMPANY
FOR A DUAL COMPLETION AND A NON-STANDARD *ny*
PRORATION UNIT, ROOSEVELT COUNTY, NM

Case Number

5946

Application

Transcripts.

Small Exhibits

ETC.

BEFORE THE
NEW MEXICO OIL CONSERVATION COMMISSION
Santa Fe, New Mexico
8 June 1977

IN THE MATTER OF:

Application of Amoco Production Company)
for a dual completion and a non-standard)
proration unit, Roosevelt County, New)
Mexico.)

CASE
5946

BEFORE: Daniel S. Nutter

TRANSCRIPT OF HEARING

A P P E A R A N C E S

For the New Mexico Oil
Conservation Commission:

Lynn Teschendorf, Esq.
Legal Counsel for the Commission
State Land Office Building
Santa Fe, New Mexico

For Amoco Production
Company:

Antone L. Peterson, III, Esq.
Amoco Production Company
Post Office Box 3092
Houston, Texas 77001

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General Court Reporting Service
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Phone (505) 982-9212

I N D E X

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J. E. PEASE

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1 MR. NUTTER: Call Case Number 5946.

2 MS. TESCHENDORF: Case 5946. Application of
3 Amoco Production Company for a dual completion and a non-
4 standard proration unit, Roosevelt County, New Mexico.

5 MR. PETERSON: Mr. Examiner, an appearance by
6 Antone Peterson on behalf of Amoco Production Company and the
7 file should reflect an appearance by New Mexico counsel,
8 Atwood, Malone, Mann & Cooter on behalf of Amoco Production
9 Company.

10 MR. NUTTER: We have Mr. Cooter's appearance on
11 your behalf.

12 MR. PETERSON: Amoco will have one witness. If
13 there are no other appearances, I'd like to have him sworn
14 at this time.

15 (THEREUPON, the witness was duly sworn.)

16
17 J. E. PEASE

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

20
21 DIRECT EXAMINATION

22 BY MR. PETERSON:

23 Q Would you state your name, please, for the record?

24 A J. E. Pease.

25 Q And you've testified before the Commission or one

1 of its examiners previously?

2 A Yes, I have.

3 Q And your qualifications were found acceptable?

4 A Yes, they were.

5 Q For the record, what is your field of expertise,
6 Mr. Pease?

7 A I'm a Staff Engineer with Amoco Production in
8 Houston, Texas, in the Proration Department.

9 MR. PETERSON: Are the witness' qualifications
10 acceptable, Mr. Examiner?

11 MR. NUTTER: Yes, they are.

12 Q (Mr. Peterson continuing.) I'd like for you to
13 turn your attention now to what has been labeled Amoco's
14 Exhibit One, Mr. Pease, and explain to us generally what that
15 map shows and also, more specifically, the markings on that
16 map.

17 A This is a structure map of the Pennsylvanian Zone
18 of Peterson Field. It's contoured on top of the main porosity
19 interval, which most of the wells are completed.

20 Shown by the four green circles are the four oil
21 completions in this pool; shown by the two pink circles are
22 the two gas completions in this pool; and shown by the red
23 circle is the Swearingen C Number 1 well in which we're re-
24 questing approval to dually complete the Pennsylvanian Zone
25 with the current completion in the Fusselman Zone, and also

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1 the well for which we're requesting a non-standard 160-acre
2 unit.

3 MR. NUTTER: Mr. Pease, before you go any further,
4 now, you said the green is the oil completions, pink are the
5 gas completions, are those all in the Pennsylvanian?

6 A Yes, sir.

7 MR. NUTTER: And is the red well, then, the dual
8 completion, the only Fusselman well we've got?

9 A Yes, sir.

10 MR. NUTTER: Okay.

11 Q (Mr. Peterson continuing.) And, also, for the
12 record, Mr. Pease, the proposed non-standard proration unit
13 would be located in the southwest quarter of Section 18, is
14 that correct?

15 A Yes, sir.

16 MR. PETERSON: Mr. Examiner, Well Number 2 is a
17 salt water disposal well in the Fusselman, if you want to
18 consider it being a Fusselman completion.

19 MR. NUTTER: Okay, where is this, please?

20 MR. PETERSON: It's just to the west of the
21 Swearingen C - 1; it's there in the southwest of the southwest
22 of Section 18.

23 MR. NUTTER: Okay, that's your disposal well, then?

24 MR. PETERSON: Yes, sir. I have not --

25 MR. NUTTER: Thank you. And what formation is it

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1 in?

2 MR. PETERSON: It's in the Fusselman.

3 MR. NUTTER: Thank you.

4 Q (Mr. Peterson continuing.) Mr. Pease, you've also
5 I think denoted on the map all the dry holes which show the
6 extent of the productive limits of the field?

7 A Yes, I have, the wells which have penetrated the
8 Pennsylvanian Zone have been circled.

9 Q Redirecting your attention to the Swearingen C - 1,
10 the subject of today's application, I direct your attention
11 to what has been labeled Amoco's Exhibit Two. Would you
12 please explain that exhibit?

13 A This is a diagrammatic sketch of the wellbore for
14 the Swearingen C - 1. The well is located 554 feet from the
15 south line and 2,078 feet from the west line of Section 18,
16 Township 5 South, Range 33 East, Roosevelt County, New Mexico.

17 The well was drilled to a total depth of 7,989
18 feet. Eight and five-eighths inch surface casing was set in
19 the twelve and a quarter inch hole at 2,053 feet. This
20 casing was cemented with seven hundred sacks of Class C cement,
21 of which a hundred and twenty-five sacks were circulated back
22 to the surface. The weight of the surface casing is 24 pounds
23 per foot.

24 Five and a half inch production casing was set at
25 7,989 feet inside a seven and seven-eighths inch hole. This

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1 casing was cemented with seven hundred and fifty sacks of
2 Class H cement, which contained .75% of a friction reducer.
3 The weight of the five and a half inch casing varied from
4 fourteen pounds to seventeen pounds per foot.

5 The theoretical top of the cement in the -- behind
6 the production casing is at 6,000 feet.

7 Centralizers were placed on the production string
8 one on top of the casing shoe, one one joint above the casing
9 shoe, and then one centralizer every joint from 7600 feet
10 to 7800 feet.

11 The Fusselman was originally perforated from 7,841
12 feet to 7,849 feet with two jet shocks per foot. Because of
13 increasing water production, we recently set a cement retainer
14 at 7,840 feet and squeezed these perforations with seventy-five
15 sacks of cement.

16 The Fusselman is now perforated from 7,829 to
17 7,838 feet.

18 We propose to perforate the Pennsylvanian Zone,
19 7,684 to 87 feet, and 7,692 to 7,706 feet with two jet
20 shocks per foot. Two and three-eighths inch, 4.7 pounds per
21 foot, 1080 tubing will be run in the well set on a packer at
22 7,730 feet. Two joints of the tubing will extend below the
23 packer. A seating nipple and a sliding sleeve will be in-
24 stalled at 7,729 feet.

25 A If Amoco's application for a dual completion is

1 granted, how would you produce this dual completion?

2 A The Fusselman Zone would be produced up the two
3 units and oil completion. The Pennsylvanian Zone we believe
4 will be gas, due to the elevation that the well encountered
5 the Pennsylvanian, and it will be produced up the tubing
6 casing annulus.

7 Q To further illustrate the characteristics of the
8 Swearingen C - 1 well, I think you have an exhibit which has
9 been labeled Amoco's Exhibit Three. Would you tell us what
10 that exhibit shows, please?

11 A This is a portion of the Gamma Ray compensated
12 neutron, compensated density log that was run of the Swearingen
13 C - 1. On this exhibit we've labeled the top of the Pennsylv-
14 vanian (Main Pay) Zone; shown the perforations for the Penn-
15 sylvanian Zone. We've labeled the top of the Canyon Zone;
16 the top of the Fusselman Zone; the current perforations in
17 the Fusselman Zone; the location of the cement retainer, and
18 the perforations in the Fusselman Zone, which have been
19 squeezed off.

20 Q Do you have any further comments regarding Exhibit
21 Three?

22 A The neutron and density logs here indicate that
23 the lower portion of the Penn Zone is very low porosity,
24 probably has no permeability, and this is also true for the
25 Canyon Zone, so we believe that the Pennsylvanian and Fussel-

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1 man Zones are two separate zones. This is also supported by
2 recent pressure data which we obtained. The latest pressure
3 for the Swearingen C - 1 in the Fusselman is 2,749 pounds;
4 the Peterson Number 1 gas well, the latest pressure for it in
5 the Pennsylvanian was 1,565 pounds. These two zones currently
6 have over 1200 pounds pressure gradient between them.

7 Q All right, I'd like for you to regress for a moment
8 now and go back to Amoco's Exhibit One. Specifically, the
9 proposed non-standard proration unit in the southwest quarter
10 of Section 18. Why has Amoco applied for that non-standard
11 proration unit?

12 A We believe that only the south half of Section 18
13 is productive. The southeast quarter is assigned to the
14 Peterson C - 1, an oil well. You could see on the completions
15 that have been made to date, the lowest one on the map is
16 the Swearingen B - 4, which is Section 20, there in the north-
17 west quarter of that section, and it encountered its main
18 pay zone at minus 3324 feet. Anything below that depth we
19 would -- and I might add that this well made water initially
20 on completion; has produced about 5000 barrels of oil and is
21 currently making 87% salt water.

22 Q And you expect that the completion in the Penn
23 in the Swearingen C - 1 would be gas?

24 A Yes, I would. It is the highest well on the
25 structure.

1 Q In your opinion, Mr. Pease, will the granting of
2 this application, both for dual completion and a non-standard
3 proration unit, serve the interests of conservation, protect
4 correlative rights, and prevent waste?

5 A Yes, it would.

6 Q Were Amoco's Exhibits One through Three prepared
7 by you or under your supervision?

8 A They were.

9 MR. PETERSON: I'd like to move that Amoco's Ex-
10 hibits One through Three be admitted into evidence.

11 MR. NUTTER: Amoco Exhibits One through Three will
12 be admitted.

13
14 CROSS EXAMINATION

15 BY MR. NUTTER:

16 Q Mr. Pease, the pool rules here provide for 160-
17 acre spacing for the oil wells and 320 for the gas wells, do
18 they not?

19 A Yes, sir.

20 Q So you do have the 160-acres in the southeast
21 quarter dedicated to that oil well there.

22 A The oil well is in the Fusselman, which is 40 acres.

23 Q No, I'm talking about in the Pennsylvanian you've
24 got the 160 acres dedicated to that oil well, in the Penn-
25 sylvanian.

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1 A. That's correct.

2 Q. And then upon dual completion here, you presumably
3 would have a gas well in the Pennsylvanian and it would have
4 the southwest quarter dedicated to it and that's the need for
5 the non-standard unit?

6 A. That's correct.

7 Q. Now, you will be in trouble if you should get an
8 oil well rather than a gas well here. What is the classifi-
9 cation for the Peterson - Penn pool between oil wells and gas
10 wells, do you recall the GOR limit?

11 A. I believe it's 60,000.

12 Q. 60?

13 A. Yes.

14 Q. Are all of your gas wells pretty clear-cut gas
15 wells or do you have some rather marginal GOR's that the
16 wells might fluctuate between oil and gas?

17 A. They were clear-cut gas wells and the liquid pro-
18 duction on them has decreased since initial completion.

19 Q. I see. So, being at the top of the structure,
20 you really do expect to get a gas well here, then?

21 A. Yes, sir.

22 MR. NUTTER: Are there any further questions of
23 Mr. Pease?

24 He may be excused. Do you have anything further,
25 Mr. Peterson?

1 MR. PETERSON: I don't, Mr. Examiner.

2 MR. NUTTER: Does anyone have anything they wish
3 to offer in Case 5946?

4 We'll take the case under advisement and a fifteen
5 minute break.

6 (Hearing concluded.)
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REPORTER'S CERTIFICATE

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

Sally Walton Boyd
Sally Walton Boyd, C. S. R.

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I do hereby certify that the foregoing is
a complete record of the proceedings in
the Examiner hearing of case No. 5946
heard by me on 6-8, 1977.
[Signature], Examiner
New Mexico Oil Conservation Commission

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. 5946
Order No. R-5471

APPLICATION OF AMOCO PRODUCTION
COMPANY FOR A DUAL COMPLETION AND
A NON-STANDARD PRORATION UNIT,
ROOSEVELT COUNTY, NEW MEXICO.

ORDER OF THE COMMISSION

BY THE COMMISSION:

This cause came on for hearing at 9 a.m. on June 8, 1977,
at Santa Fe, New Mexico, before Examiner Daniel S. Nutter.

NOW, on this 21st day of June, 1977, 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, Amoco Production Company, seeks
approval of a 160-acre non-standard gas proration unit
comprising the SW/4 of Section 18, Township 5 South, Range 33
East, NMPM, Peterson-Pennsylvanian Associated Pool, Roosevelt
County, New Mexico, to be dedicated to its Swearingen "C"
Well No. 1, located in Unit N of said Section 18.

(3) That applicant further seeks approval for the dual
completion (conventional) of the above-described well to
produce gas from the Pennsylvanian formation and oil from
the Peterson-Fusselman Pool through the casing-tubing annulus
and 2 3/8-inch tubing, respectively, separation of the zones
to be achieved by means of a packer set at approximately
7,730 feet.

-2-

Case No. 5946
Order No. R-5471

(4) That the entire non-standard proration unit may reasonably be presumed productive of gas from the Pennsylvanian formation and that the entire non-standard gas proration unit can be efficiently and economically drained and developed by the aforesaid well.

(5) That the mechanics of the proposed dual completion are feasible and in accord with good conservation practices.

(6) That approval of the subject application will afford the applicant the opportunity to produce its just and equitable share of the oil and gas in the Peterson-Fusselman Pool and the Peterson-Pennsylvanian Associated Pool, will prevent the economic loss caused by the drilling of unnecessary wells, avoid the augmentation of risk arising from the drilling of an excessive number of wells, and will otherwise prevent waste and protect correlative rights.

IT IS THEREFORE ORDERED:

(1) That a 160-acre non-standard gas proration unit in the Peterson-Pennsylvanian Associated Pool comprising the SW/4 of Section 18, Township 5 South, Range 33 East, NMPM, Roosevelt County, New Mexico, is hereby established and dedicated to its Swearingen "C" Well No. 1, located in Unit N of said Section 18.

(2) That the applicant is hereby authorized to complete said well as a dual completion (conventional) to produce gas from the Peterson-Pennsylvanian Pool through the casing-tubing annulus and to produce oil from the Peterson-Fusselman Pool through 2 3/8-inch tubing, separating said zones by means of a packer set at approximately 7,730 feet.

PROVIDED HOWEVER, that the applicant shall complete, operate, and produce said well in accordance with the provisions of Rule 112-A of the Commission Rules and Regulations insofar as said rule is not inconsistent with this order;

PROVIDED FURTHER, that the applicant shall take packer-leakage tests upon completion and annually thereafter during the Annual Gas-Oil Ratio Test Period for the Peterson-Fusselman Pool.

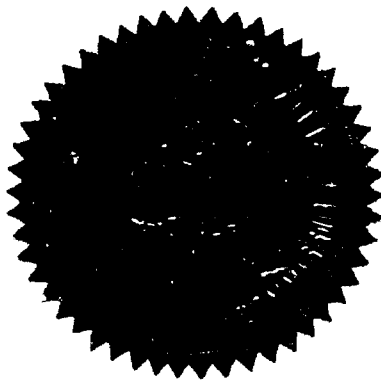
(3) That jurisdiction of this cause is retained for the entry of such further orders as the Commission may deem necessary.

-3-

Case No. 5946

Order No. R-5471

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



STATE OF NEW MEXICO
OIL CONSERVATION COMMISSION

Phil R. Lucero
PHIL R. LUCERO, Chairman

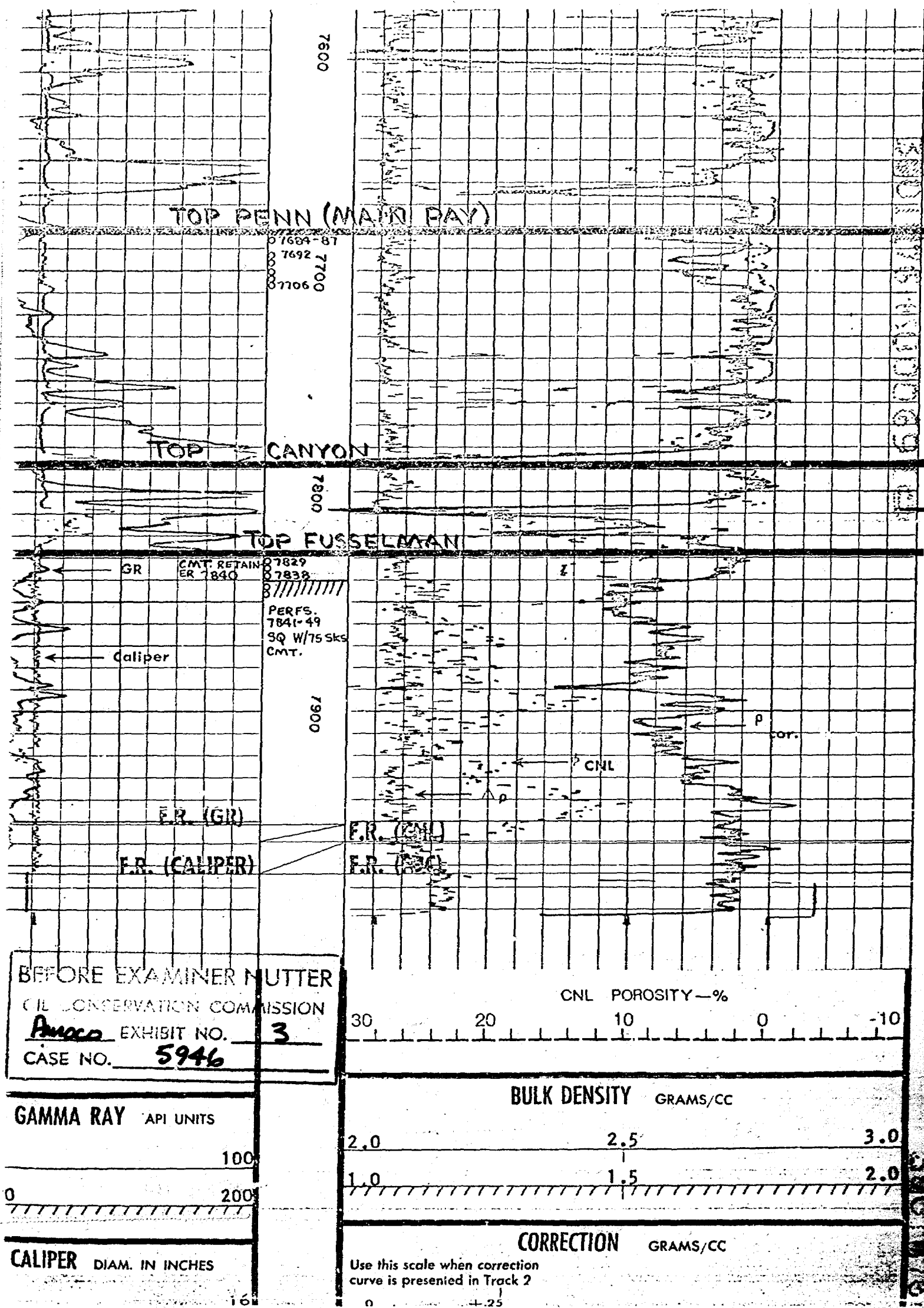
Emery C. Arnold
EMERY C. ARNOLD, Member

Joe D. Ramey
JOE D. RAMEY, Member & Secretary

S E A L

dr/

AMOCO PRODUCTION COMPANY SWEARINGEN C#1
PETERSON (PENN & FUSSELMAN) FIELD
Roosevelt County, New Mexico
Unit N 554' FSL & 2078' FWL Sec. 18, T-55, R-33-E
Elev. 4439'





Amoco Production Company

ENGINEERING CHART

SHEET NO. OF

FILE

APPN

DATE 5-2-77

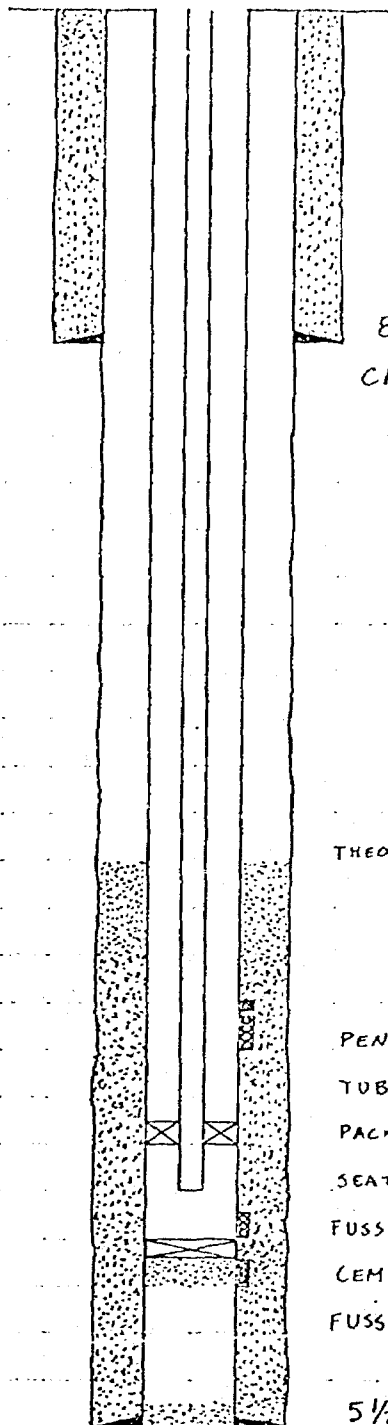
BY DJC

SUBJECT SWEARINGEN "C" NO. 1

PETERSON PENN & FUSSELMAN

554' FSL & 2078' FWL, SEC 18, T-5-S, R-33-E, ROOSEVELT COUNTY, NEW MEXICO

ELEV. 4429' GL
4439' RDB



8 5/8" CSA 2053' 12 1/4" H.S. 24 #/FT
CMT W/700SX CLASS "C" CIRC 125 SX

BEFORE EXAMINER NUTTER
OIL CONSERVATION COMMISSION
Amoco EXHIBIT NO. 2
CASE NO. 5946

CENTRALIZERS

THEO. CMT TOP \approx 6000'
1 ABOVE CSG. SHOE
1-1 JT. ABOVE CSG SHOE
1 EVERY JT. FROM 7800'-7600'

PENN PERFS: 7684'-87', 7692'-7706' W/2 JSPF
TUBING: 2 3/8" 47" N-80
PACKER SA 7730' (W/2 ; ts. 2 3/8" TAIL PIPE TO 7793)
SEATING NIPPLE AT 7729'

FUSSELMAN PERFS: 7829'-7836' W/2 JSPF
CEMENT RETAINER SA 7840'
FUSSELMAN PERFS: 7841'-7849' W/2 JSPF } *now squeezed*

5 1/2" CSA 7789' 7 7/8" H.S. 14, 15.5, 17 #/FT
CMT W/750SX CLASS "H" + 0.15% CFR-2

PBTD 7780'
TD 7789'

FLAC NO. 953745

API NO. 300.4120411



Amoco Production Company

ENGINEERING CHART

SHEET NO. OF

FILE

APPN

DATE 5-2-77

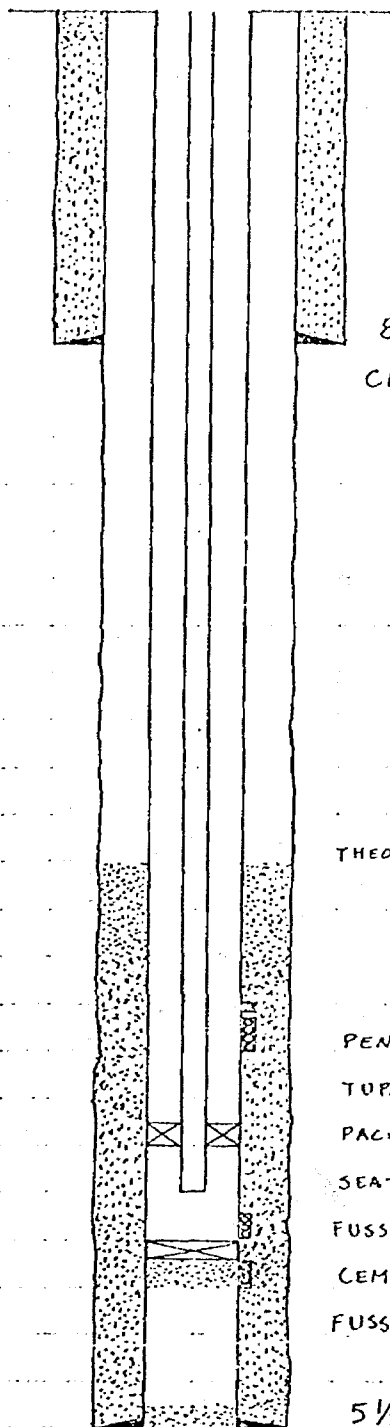
BY DJC

SUBJECT SWEARINGEN "C" NO. 1

PETERSON PENN & FUSSELMAN

554' FSL & 2078' FWL, SEC 18, T-5-S, R-33-E, ROOSEVELT COUNTY, NEW MEXICO

ELEV. 4429' GL
4439' RDB



8 5/8" CSA 2053' 12 1/4" H.S. 24#/FT
CMT W/ 700SX CLASS "C" CIP 125 SX

BEFORE EXAMINER NUTTER
OIL CONSERVATION COMMISSION
Amoco EXHIBIT NO. 2
CASE NO. 5946

CENTRALIZERS

THEO. CMT TOP 2600' 1 ABOVE CSG. SHOE
1-1 JT. ABOVE CSG SHOE
1 EVERY ST. FROM 7800' - 7600'

PENN PERFS: 7684-87', 7692-7706' W/2 JSPP
TUBING: 2 3/8" 47" N-80
PACKER SA 7730' (W/2 jts 2 3/8" TAIL PIPE TO 7793')
SEATING NIPPLE AT 7729'
FUSSELMAN PERFS: 7829-7838' W/2 JSPP
CEMENT RETAINER SA 7840'
FUSSELMAN PERFS: 7841-7849' W/2 JSPP

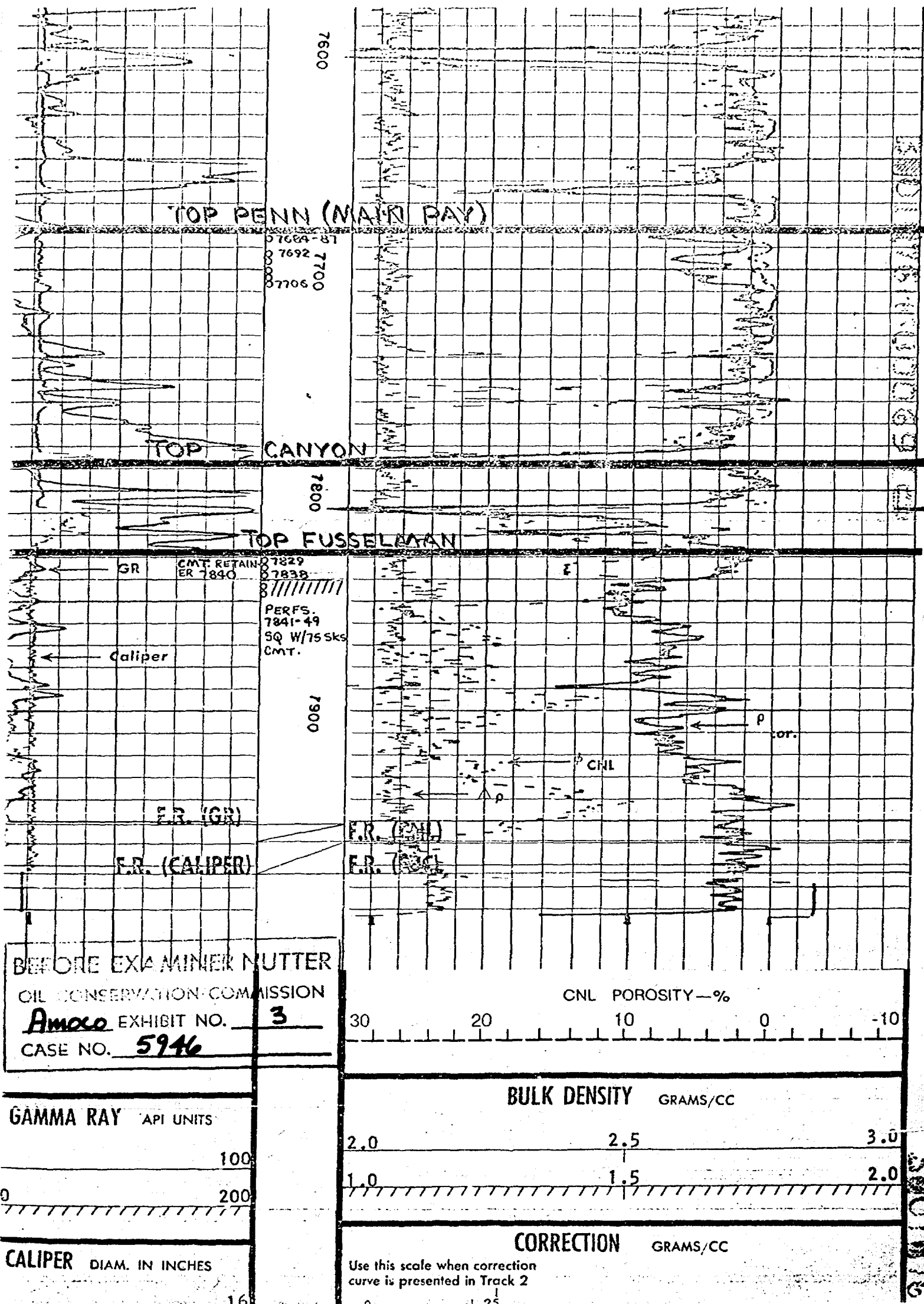
5 1/2" CSA 7989' 7 7/8" H.S. 14, 15.5, 17#/FT
CMT W/ 150SX CLASS "H" + 0.15% CIP-2

PBTD 7780'
TD 7989'

ELAC NO. 153745

API NO. 3004120411

AMOCO PRODUCTION COMPANY SWEARINGEN C#1
 PETERSON (PENN & FUSSELMAN) FIELD
 Roosevelt County, New Mexico
 Unit N 554' FSL & 2078' FWL Sec. 18, T-5-S, R-33-E
 Elev. 4439'



ATWOOD, MALONE, MANN & COOTER

A PROFESSIONAL ASSOCIATION
LAWYERS

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JOHN W. BASSETT
ROBERT E. SABIN
R. E. THOMPSON

RANDAL W. ROBERTS

June 3, 1977

Mr. Joe D. Ramey
Oil Conservation Commission
State Land Office Building
Santa Fe, New Mexico 87501

RE: No. 5946
Examiner Hearing for Wednesday, June 8, 1977

Dear Mr. Ramey:

Would you please file the enclosed Entry of Appearance in the captioned case. The presentation will be handled by Guy Buell or Antone Peterson of Amoco's Houston office.

Appreciating your courtesy, and with our kind regards, I am,

Very truly yours,

Paul Cooter

Paul Cooter

PC:sas
Encl.
cc: Guy Buell, Esquire

BEFORE THE OIL CONSERVATION COMMISSION

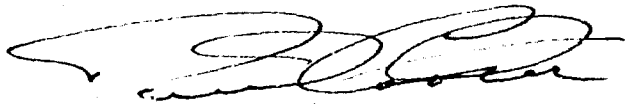
STATE OF NEW MEXICO

IN THE MATTER OF THE APPLICATION)
OF AMOCO PRODUCTION COMPANY FOR)
A DUAL COMPLETION AND A NON-) No. 5946
STANDARD PRORATION UNIT, ROOSEVELT)
COUNTY, NEW MEXICO.)

ENTRY OF APPEARANCE

The undersigned, Atwood, Malone, Mann & Cooter,
P.A., of Roswell, New Mexico, hereby enter their appearance
herein on behalf of Amoco Production Company, with Guy Buell,
Esquire, or Antone Peterson, Esquire, of Houston, Texas.

ATWOOD, MALONE, MANN & COOTER, P.A.



BY

P. O. Drawer 700
Roswell, New Mexico 88201

Attorneys for Amoco Production
Company

Dockets Nos. 21-77 and 22-77 are tentatively set for hearing on June 22 and July 6, 1977. Applications for hearing must be filed at least 22 days in advance of hearing date.

DOCKET: EXAMINER HEARING - WEDNESDAY - JUNE 8, 1977

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

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

CASE 5942: In the matter of the hearing called by the Oil Conservation Commission on its own motion to consider the amendment of Rule 1115 of the Commission Rules and Regulations to provide for the reporting of salt water disposal, secondary recovery, and other injection well volumes and pressures on Commission Form C-115, Operator's Monthly Report. Further to be considered will be the amendment of Form C-115 and the deletion of Rule 1120.

(Please see two potential configurations of Form C-115 enclosed)

CASE 5943: In the matter of the hearing called by the Oil Conservation Commission on its own motion to consider adoption of the following:

1. Rule 407, requiring notice to the Commission by the operator of the disconnection of any gas wells from intrastate transportation facilities.
2. Rule 1130, setting forth the requirements of the notice of disconnection.
3. Form C-130, NOTICE OF DISCONNECTION, requiring notice of the reason(s) for disconnection.

CASE 5920: (Continued from May 11, 1977 Examiner Hearing)

Application of New Mexico Salt Water Disposal Co., 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 Devonian formation through the perforated interval from approximately 13,000 feet to 13,500 feet in its Sinclair State Lea Well No. 1, located in Unit M of Section 1, Township 11 South, Range 34 East, Sand Springs-Devonian Pool, Lea County, New Mexico.

CASE 5944: Application of Read & Stevens, Inc., for an unorthodox gas well location, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks approval for the unorthodox location of its Hisson- State Com Well No. 1 located in Unit M of Section 23, Township 21 South, Range 27 East, Burton Flats-Morrow Gas Pool, Eddy County, New Mexico, the S/2 of said Section 23 to be dedicated to the well.

CASE 5945: Application of El Paso Natural Gas Company for downhole commingling, San Juan County, New Mexico. Applicant, in the above-styled cause, seeks approval for the downhole commingling of South Blanco-Pictured Cliffs and Blanco Mesaverde production in the wellbore of its Blanco Well No. 15 located in Unit K of Section 36, Township 28 North, Range 8 West, San Juan County, New Mexico.

CASE 5946: Application of Amoco Production Company for a dual completion and a non-standard proration unit, Roosevelt County, New Mexico. Applicant, in the above-styled cause, seeks approval for the dual completion of its Srearingen "C" Well No. 1 located in Unit N of Section 18, Township 5 South, Range 33 East, Roosevelt County, New Mexico, to produce gas from the Pennsylvanian and oil from the Fusselman formations. Applicant also seeks approval for a 160-acre non-standard Pennsylvanian gas proration unit comprising the SW/4 of said Section 18.

CASE 5947: Application of Texaco Inc., for a unit agreement, Lea County, New Mexico. Applicant, in the above-styled cause, seeks approval for its Central Vacuum Unit Area comprising 3046 acres, more or less, of State and fee lands in Sections 25, 30, 31 and 36, Township 17 South, Range 35 East, and Sections 5, 7, and 12, Township 18 South, Range 35 East, Lea County, New Mexico.

CASE 5948: Application of Texaco Inc., for a waterflood project, Lea County, New Mexico. Applicant, in the above-styled cause, seeks authority to institute a waterflood project on its Central Vacuum Unit Area by the injection of water into the Grayburg-San Andres formation through 54 wells, Vacuum Pool, Lea County, New Mexico.

CASE 5949: Application of Mesa Petroleum Company for compulsory pooling, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks an order pooling all mineral interests in the Pennsylvanian formation underlying Section 34, Township 24 South, Range 26 East, Eddy County, New Mexico, to be dedicated to a well to be drilled at a standard location thereon. Also to be considered will be the cost of drilling and completing said well and the allocation of the cost thereof, as well as actual operating costs and charges for supervision. Also to be considered will be the designation of applicant as operator of the well and a charge for risk involved in drilling said well.



Amoco Production Company

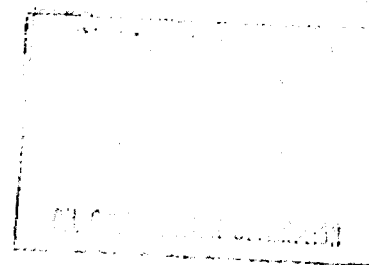
500 Jefferson Building
P.O. Box 3092
Houston, Texas 77001

J. M. Brown
Division Engineering
Manager

May 11, 1977

File: HHR-986.51NM-1793

Re: Application for Hearing
Peterson Field
Roosevelt County, New Mexico



New Mexico Oil Conservation Commission (3)
P. O. Box 2088
Santa Fe, New Mexico 87501

Attention: Mr. Joe D. Ramey

Gentlemen:

Amoco Production Company respectfully requests a hearing for obtaining approval of multiple completion of the Pennsylvanian and Fusselman zones in Swearingen "C" No. 1, Peterson Field, Roosevelt County, New Mexico. Attached are Form C-107, Application for Multiple Completion, Diagrammatic sketch of the proposed multiple completion, plat of the Peterson Field Area, and a Gamma Ray-Compensated Neutron-Compensated Density Log of Swearingen "C" No. 1 showing formation tops and the proposed completion intervals.

Rule 2 of the special rules for Peterson-Pennsylvanian Pool requires 160 acres for oil wells and 320 acres for gas wells. Swearingen "C" No. 1 was originally permitted for an oil well in the Peterson Penn Pool with the southwest quarter of Section 18, T-5-S, R-33-E assigned to the well. The well penetrated the Penn zone higher structurally than anticipated and we now believe that a completion in the Penn will be a gas well. Amoco also requests approval of a non-standard 160 acre unit for this well, being the southwest quarter of Section 18, T-5-S, R-33-E. Any questions on this request should be directed to Mr. J. E. Pease, phone (713) 652-5461.

Yours very truly,

A handwritten signature in dark ink, appearing to read "JMBrown", with a stylized flourish at the end.

JEP:sam
Attachments

NEW MEXICO OIL CONSERVATION COMMISSION
SANTA FE, NEW MEXICO
APPLICATION FOR MULTIPLE COMPLETION

Case 5946

Form C-107
5-1-61

Operator Amoco Production Company		County Roosevelt	Date 5-18-77
Address P. O. Drawer A, Levelland, Texas 79336		Lease Swearingen "C"	Well No. 1
Location of Well N	Section 18	Township 5 - South	Range 33 - East

1. Has the New Mexico Oil Conservation Commission heretofore authorized the multiple completion of a well in these same pools or in the same zones within one mile of the subject well? YES _____ NO X
2. If answer is yes, identify one such instance: Order No. _____; Operator Lease, and Well No.: _____

3. The following facts are submitted:	Upper Zone	Intermediate Zone	Lower Zone
a. Name of Pool and Formation	Penn		Fusselman
b. Top and Bottom of Pay Section (Perforations)	7684' - 7706'		7829' - 7838'
c. Type of production (Oil or Gas)	Gas		Oil
d. Method of Production (Flowing or Artificial Lift)	Flowing		Flowing

4. The following are attached. (Please check YES or NO)

- | Yes | No | |
|-------------------------------------|--------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | a. Diagrammatic Sketch of the Multiple Completion, showing all casing strings, including diameters and setting depths, centralizers and/or turbolizers and location thereof, quantities used and top of cement, perforated intervals, tubing strings, including diameters and setting depth, location and type of packers and side door chokes, and such other information as may be pertinent. |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | b. Plat showing the location of all wells on applicant's lease, all offset wells on offset leases, and the names and addresses of operators of all leases offsetting applicant's lease. |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | c. Waivers consenting to such multiple completion from each offset operator, or in lieu thereof, evidence that said offset operators have been furnished copies of the application.* |
| <input type="checkbox"/> | <input type="checkbox"/> | d. Electrical log of the well or other acceptable log with tops and bottoms of producing zones and intervals of perforation indicated thereon. (If such log is not available at the time application is filed it shall be submitted as provided by Rule 112A.) |

5. List all offset operators to the lease on which this well is located together with their correct mailing address.

No offset operators

6. Were all operators listed in Item 5 above notified and furnished a copy of this application? YES _____ NO X. If answer is yes, give date of such notification _____.

CERTIFICATE: I, the undersigned, state that I am the Administrative Assistant of the Amoco Production Company (company), and that I am authorized by said company to make this report; and that this report was prepared under my supervision and direction and that the facts stated therein are true, correct and complete to the best of my knowledge.

Ray W. Cox

Signature

*Should waivers from all offset operators not accompany an application for administrative approval, the New Mexico Oil Conservation Commission will hold the application for a period of twenty (20) days from date of receipt by the Commission's Santa Fe office. If, after said twenty-day period, no protest nor request for hearing is received by the Santa Fe office, the application will then be processed.

NOTE: If the proposed multiple completion will result in an unorthodox well location and/or a non-standard proration unit in one or more of the producing zones, then separate application for approval of the same should be filed simultaneously with this application.



Amoco Production Company

ENGINEERING CHART

Case 5946

SHEET NO. OF

FILE

APPN

DATE 5-2-77

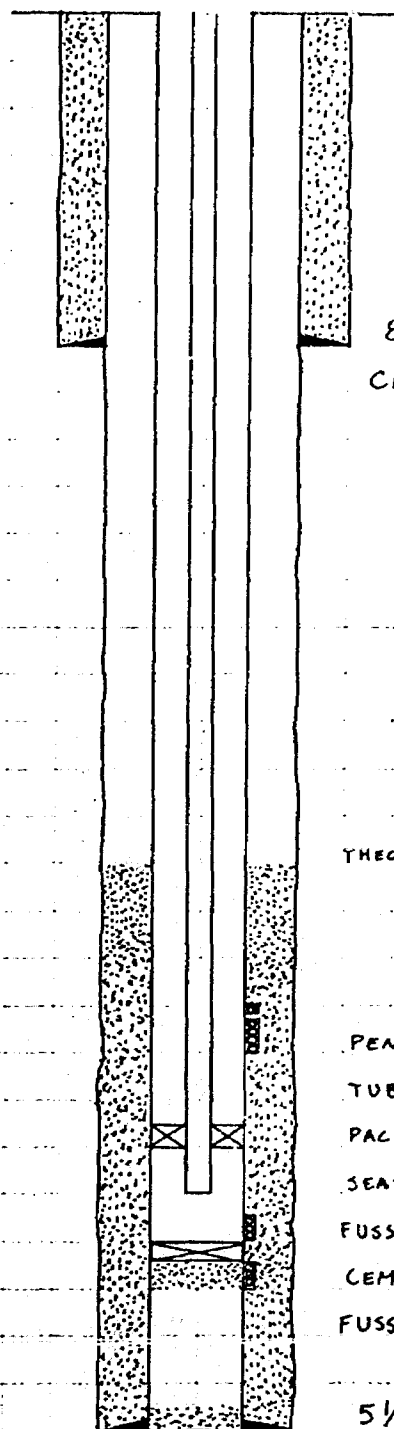
BY DJC

SUBJECT SWEARINGEN "C" NO. 1

PETERSON PENN & FUSSELMAN

554' FSL & 2078' FWL, SEC 18, T-5-S, R-33-E, ROOSEVELT COUNTY, NEW MEXICO

ELEV. 4429' GL
4439' RDB



8 5/8" CSA 2053' 12 1/4" H.S. 24#/FT
CMT W/700SX CLASS "C" CIRC 125 SX

CENTRALIZERS

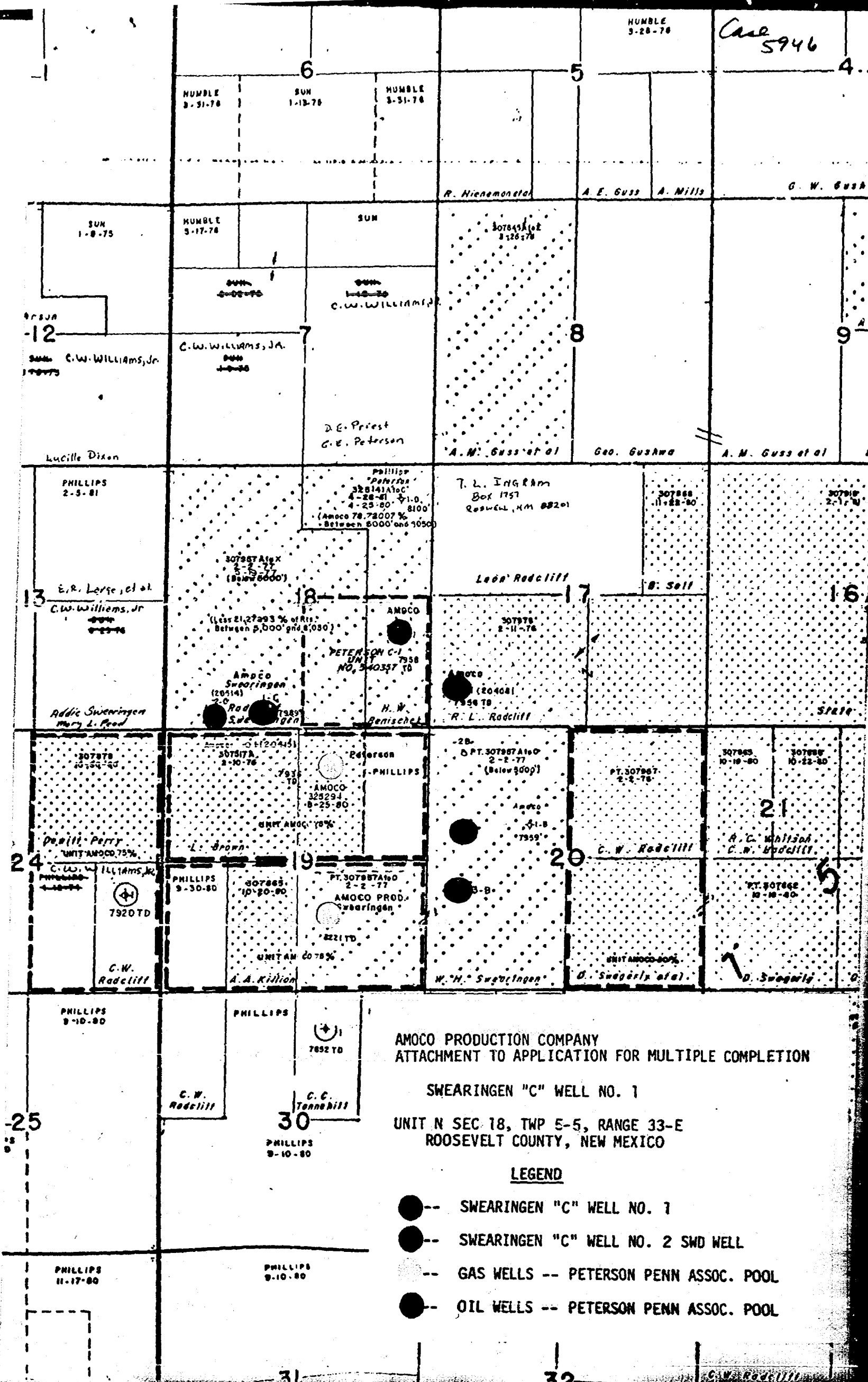
THEO. CMT TOP 26000' 1 ABOVE CSG. SHOE
1 -1 JT. ABOVE CSG SHOE
1 EVERY ST. FROM 7800'-7600'

PENN PERFS: 7684'-87', 7692'-7706' W/2 JSPP
TUBING: 2 3/8" 47" N-80
PACKER SA 7730' (W/2 jts 2 3/8" TAIL PIPE TO 7793')
SEATING NIPPLE AT 7729'
FUSSELMAN PERFS: 7829'-7836' W/2 JSPP
CEMENT RETAINER SA 7840'
FUSSELMAN PERFS: 7841'-7849' W/2 JSPP

PBTD 7980'
TD 7989'

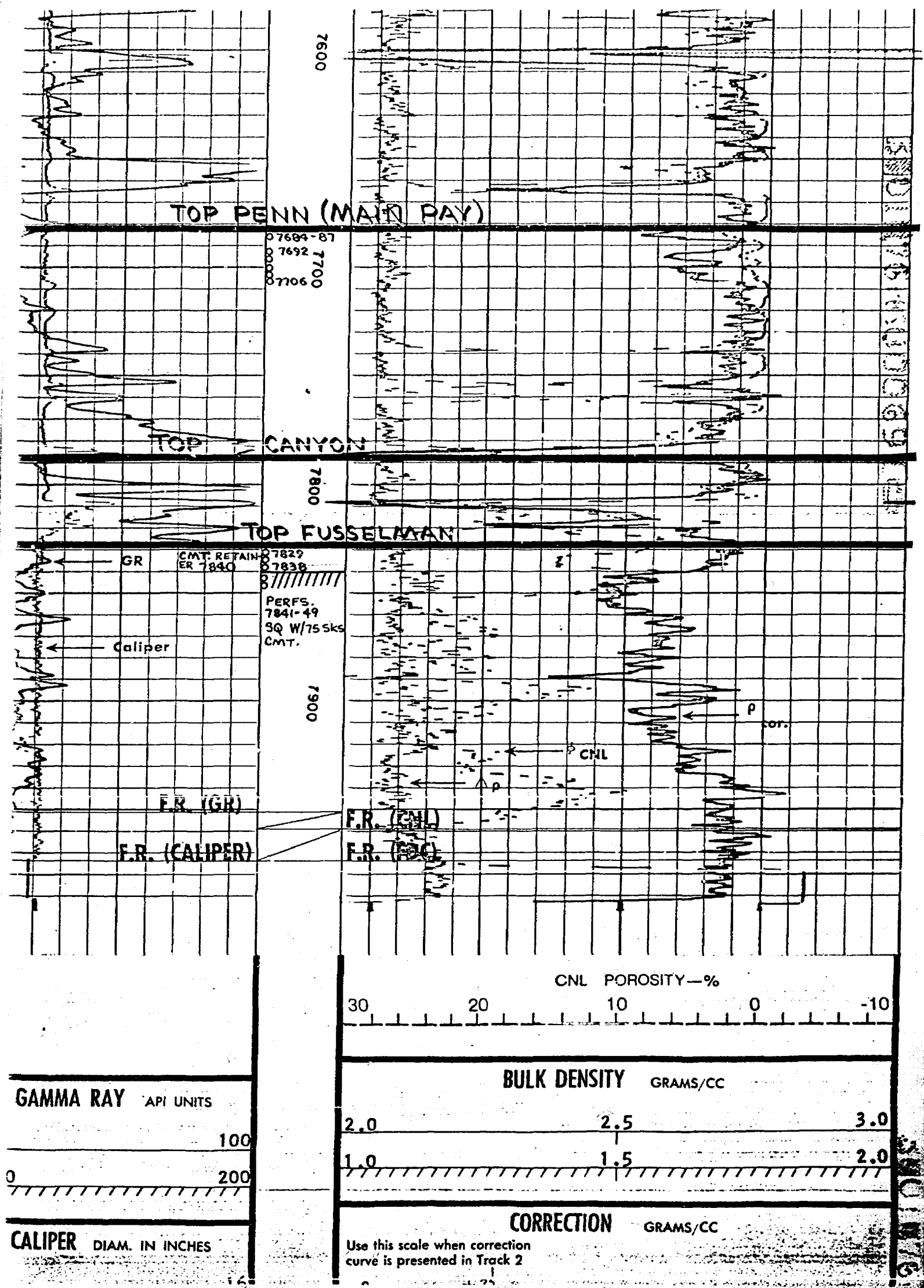
5 1/2" CSA 7989' 7 7/8" H.S. 14, 15.5, 17#/FT
CMT W/750SX CLASS "H" + 0.15% CFR-2

FLAC NO. 953745 API NO. 3004120411



Case 5946

AMOCO PRODUCTION COMPANY SWEARINGEN C#1
PETERSON (PENN & FUSSELMAN) FIELD
Roosevelt County, New Mexico
Unit N 554' FSL & 2078' FWL Sec. 18, T-5-S, R-33-E
Elev. 4439'





RECEIVED
Case
FILED 5/11/77 5946

OIL CONSERVATION COMMISSION

Amoco Production Company

500 Jefferson Building
P.O. Box 3092
Houston, Texas 77001

J. M. Brown
District Engineering
Manager

May 11, 1977

File: HHR-986.51NM-1793

Re: Application for Hearing
Peterson Field
Roosevelt County, New Mexico

New Mexico Oil Conservation Commission (3)
P. O. Box 2088
Santa Fe, New Mexico 87501

Attention: Mr. Joe D. Ramey

Gentlemen:

Amoco Production Company respectfully requests a hearing for obtaining approval of multiple completion of the Pennsylvanian and Fusselman zones in Swearingen "C" No. 1, Peterson Field, Roosevelt County, New Mexico. Attached are Form C-107, Application for Multiple Completion, Diagrammatic sketch of the proposed multiple completion, plat of the Peterson Field Area, and a Gamma Ray-Compensated Neutron-Compensated Density Log of Swearingen "C" No. 1 showing formation tops and the proposed completion intervals.

Rule 2 of the special rules for Peterson-Pennsylvanian Pool requires 160 acres for oil wells and 320 acres for gas wells. Swearingen "C" No. 1 was originally permitted for an oil well in the Peterson Penn Pool with the southwest quarter of Section 18, T-5-S, R-33-E assigned to the well. The well penetrated the Penn zone higher structurally than anticipated and we now believe that a completion in the Penn will be a gas well. Amoco also requests approval of a non-standard 160 acre unit for this well, being the southwest quarter of Section 18, T-5-S, R-33-E. Any questions on this request should be directed to Mr. J. E. Pease, phone (713) 652-5461.

Yours very truly,

J M Brown

JEP:sam
Attachments

NEW MEXICO OIL CONSERVATION COMMISSION
SANTA FE, NEW MEXICO
APPLICATION FOR MULTIPLE COMPLETION

Form C-07
5-1-61

Case 5946

Operator Amoco Production Company		County Roosevelt	Date 5-6-77
Address P. O. Drawer A, Levelland, Texas 79336		Lease Swearingen "C"	Well No. 1
Location of Well N	Unit 18	Township 5 - South	Range 33 - East

1. Has the New Mexico Oil Conservation Commission heretofore authorized the multiple completion of a well in these same pools or in the same zones within one mile of the subject well? YES _____ NO X
2. If answer is yes, identify one such instance: Order No. _____; Operator Lease, and Well No.: _____

3. The following facts are submitted:	Upper Zone	Intermediate Zone	Lower Zone
a. Name of Pool and Formation	Penn		Fusselman
b. Top and Bottom of Pay Section (Perforations)	7684' - 7706'		7829' - 7838'
c. Type of production (Oil or Gas)	Gas		Oil
d. Method of Production (Flowing or Artificial Lift)	Flowing		Flowing

4. The following are attached. (Please check YES or NO)

- | Yes | No | |
|-------------------------------------|--------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | a. Diagrammatic Sketch of the Multiple Completion, showing all casing strings, including diameters and setting depths, centralizers and/or turbolizers and location thereof, quantities used and top of cement, perforated intervals, tubing strings, including diameters and setting depth, location and type of packers and side door chokes, and such other information as may be pertinent. |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | b. Plat showing the location of all wells on applicant's lease, all offset wells on offset leases, and the names and addresses of operators of all leases offsetting applicant's lease. |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | c. Waivers consenting to such multiple completion from each offset operator, or in lieu thereof, evidence that said offset operators have been furnished copies of the application.* |
| <input type="checkbox"/> | <input type="checkbox"/> | d. Electrical log of the well or other acceptable log with tops and bottoms of producing zones and intervals of perforation indicated thereon. (If such log is not available at the time application is filed it shall be submitted as provided by Rule 112-A.) |

5. List all offset operators to the lease on which this well is located together with their correct mailing address.

No offset operators

6. Were all operators listed in Item 5 above notified and furnished a copy of this application? YES _____ NO X. If answer is yes, give date of such notification _____.

CERTIFICATE: I, the undersigned, state that I am the Administrative Assistant of the Amoco Production Company (company), and that I am authorized by said company to make this report; and that this report was prepared under my supervision and direction and that the facts stated therein are true, correct and complete to the best of my knowledge.

Ray W. Cox

Signature

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Amoco Production Company

ENGINEERING CHART

SUBJECT SWEARINGEN "C" NO. 1

PETERSON PENN & FUSSELMAN

554' FSL ; 2078' FWL, SEC 18, T-5-S, R-33-E, ROOSEVELT COUNTY, NEW MEXICO

Case 5946

SHEET NO. OF

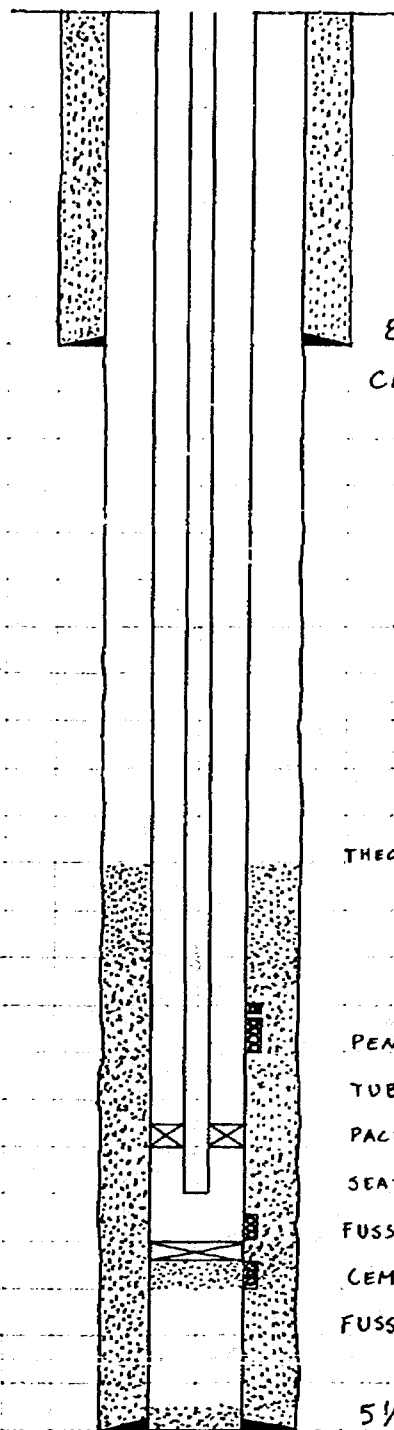
FILE

APPN

DATE 5-2-77

BY DJC

ELEV. 4429' GL
4439' RDB



8 5/8" CSA 2053' 12 1/4" H.S. 24#/FT
CMT W/ 700SX CLASS "C" CIRC 125 SX

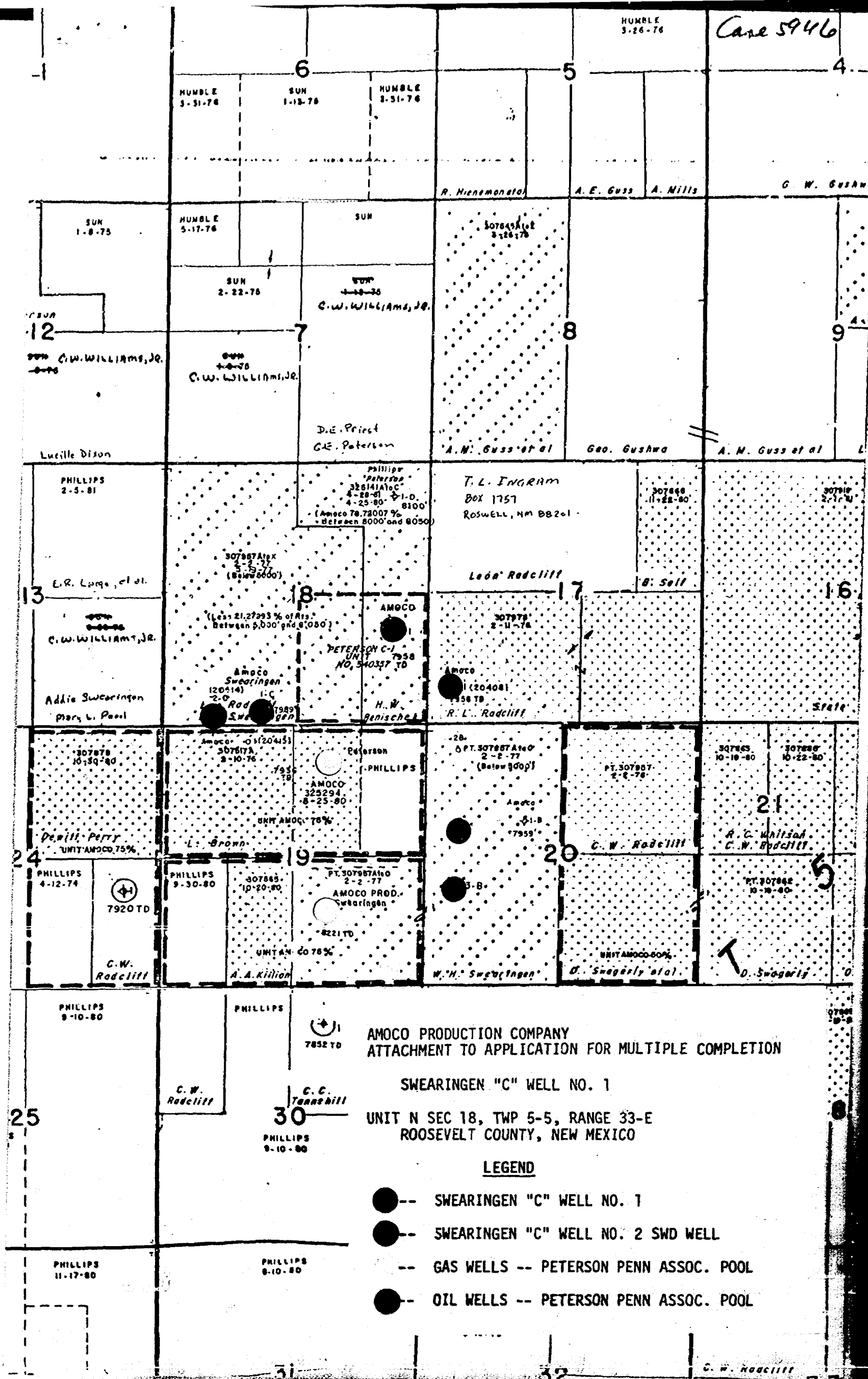
CENTRALIZERS

THEO. CMT TOP 26000' 1 ABOVE CSG. SHOE
1 - 1 JT. ABOVE CSG SHOE
1 EVERY JT. FROM 7800' - 7600'

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PBTD 7980' CMT W/ 750SX CLASS "H" + 0.15% CFB-2
TD 7989'

FLAC NO. 953745 API NO. 3004120411



AMOCO PRODUCTION COMPANY
ATTACHMENT TO APPLICATION FOR MULTIPLE COMPLETION

SWEARINGEN "C" WELL NO. 1

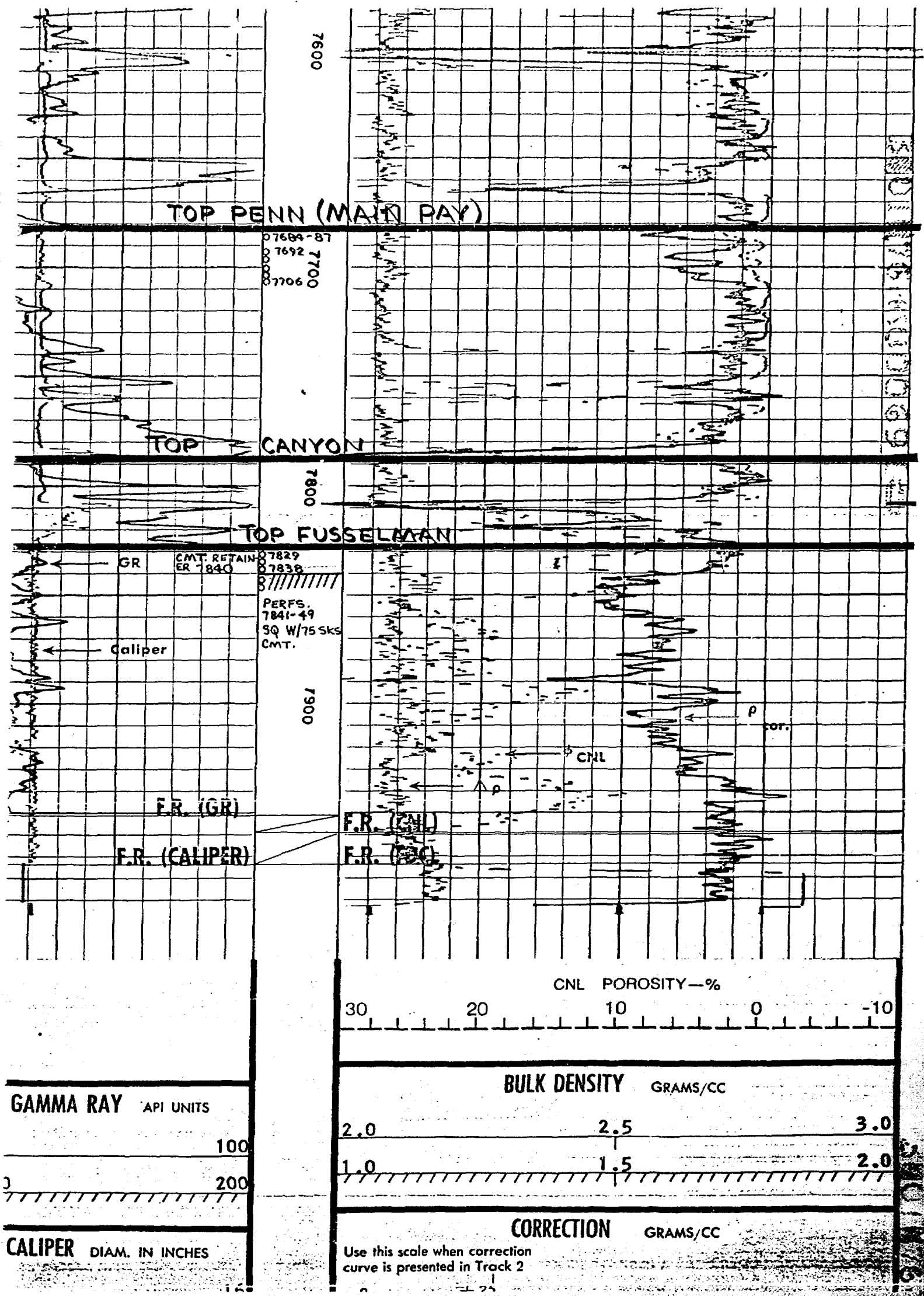
UNIT N SEC 18, TWP 5-S, RANGE 33-E
ROOSEVELT COUNTY, NEW MEXICO

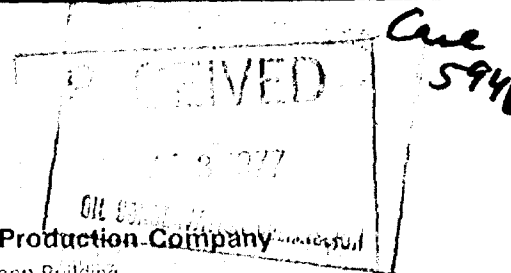
LEGEND

- SWEARINGEN "C" WELL NO. 1
- SWEARINGEN "C" WELL NO. 2 SWD WELL
- GAS WELLS -- PETERSON PENN ASSOC. POOL
- OIL WELLS -- PETERSON PENN ASSOC. POOL

Core 5946

AMOCO PRODUCTION COMPANY SWEARINGEN C#1
PETERSON (PENN & FUSSELMAN) FIELD
Roosevelt County, New Mexico
Unit N 554' FSL & 2078' FWL Sec. 18, T-5-S, R-33-E
Elev. 4439'





Amoco Production Company
500 Jefferson Building
P.O. Box 3092
Houston, Texas 77001

J. M. Brown
Division Engineering
Manager

May 11, 1977

File: HHR-986.51NM-1793

Re: Application for Hearing
Peterson Field
Roosevelt County, New Mexico

New Mexico Oil Conservation Commission (3)
P. O. Box 2088
Santa Fe, New Mexico 87501

Attention: Mr. Joe D. Ramey

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Yours very truly,

JEP:sam
Attachments

NEW MEXICO OIL CONSERVATION COMMISSION
SANTA FE, NEW MEXICO
APPLICATION FOR MULTIPLE COMPLETION

Form C-107
5-1-61

Case 5946

Operator Amoco Production Company		County Roosevelt	Date 5-6-77
Address P. O. Drawer A, Loveland, Texas 79336		Lease Swearingen "C"	Well No. 1
Location of Well N	Unit 18	Township 5 - South	Range 33 - East

1. Has the New Mexico Oil Conservation Commission heretofore authorized the multiple completion of a well in these same pools or in the same zones within one mile of the subject well? YES _____ NO X
2. If answer is yes, identify one such instance: Order No. _____; Operator Lease, and Well No.: _____

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b. Top and Bottom of Pay Section (Perforations)	7684' - 7706'		7829' - 7838'
c. Type of production (Oil or Gas)	Gas		Oil
d. Method of Production (Flowing or Artificial Lift)	Flowing		Flowing

4. The following are attached. (Please check YES or NO)

- | Yes | No | |
|-------------------------------------|--------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | a. Diagrammatic Sketch of the Multiple Completion, showing all casing strings, including diameters and setting depths, centralizers and/or turbolizers and location thereof, quantities used and top of cement, perforated intervals, tubing strings, including diameters and setting depth, location and type of packers and side door chokes, and such other information as may be pertinent. |
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| <input type="checkbox"/> | <input type="checkbox"/> | d. Electrical log of the well or other acceptable log with tops and bottoms of producing zones and intervals of perforation indicated thereon. (If such log is not available at the time application is filed it shall be submitted as provided by Rule 112-A.) |

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No offset operators

6. Were all operators listed in Item 5 above notified and furnished a copy of this application? YES _____ NO X. If answer is yes, give date of such notification _____.

CERTIFICATE: I, the undersigned, state that I am the Administrative Assistant of the Amoco Production Company (company), and that I am authorized by said company to make this report; and that this report was prepared under my supervision and direction and that the facts stated therein are true, correct and complete to the best of my knowledge.

Ray W. Cox

Signature

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Amoco Production Company
ENGINEERING CHART

Case 5946

SHEET NO. OF

FILE

APPN

DATE 5-2-77

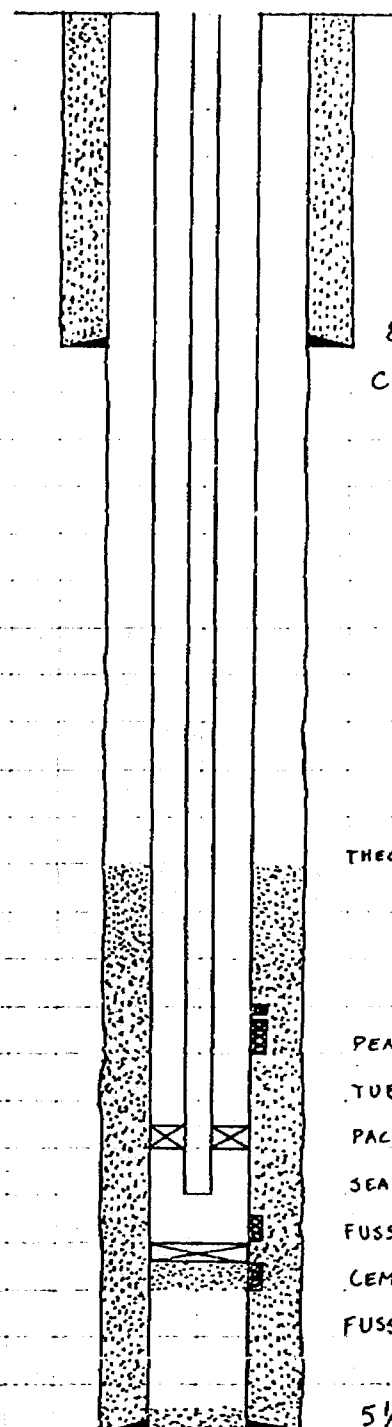
BY DJC

SUBJECT SWEARINGEN "C" NO.1

PETERSON PENN & FUSSELMAN

554' FSL & 2078' FWL, SEC. 18, T-5-S, R-33-E, ROOSEVELT COUNTY, NEW MEXICO

ELEV. 4429' GL
4439' RDB



8 5/8" CSA 2053' 12 1/4" H.S. 24 #/FT
CMT W/ 700SX CLASS "C" CIRC 125 SX

CENTRALIZERS

THEO. CMT TOP 26000' 1 ABOVE CSG. SHOE
1 -1 JT. ABOVE CSG SHOE
1 EVERY JT. FROM 7800'-7600'

PENN PERFS: 7684'-87' 7692'-7706' W/2 JSPP

TUBING: 2 7/8" 47# N-80

PACKER SA 7730' (W/2 jts. 2 7/8" TAIL PIPE TO 7793')

SEATING NIPPLE AT 7729'

FUSSELMAN PERFS: 7829'-7836' W/2 JSPP

CEMENT RETAINER SA 7840'

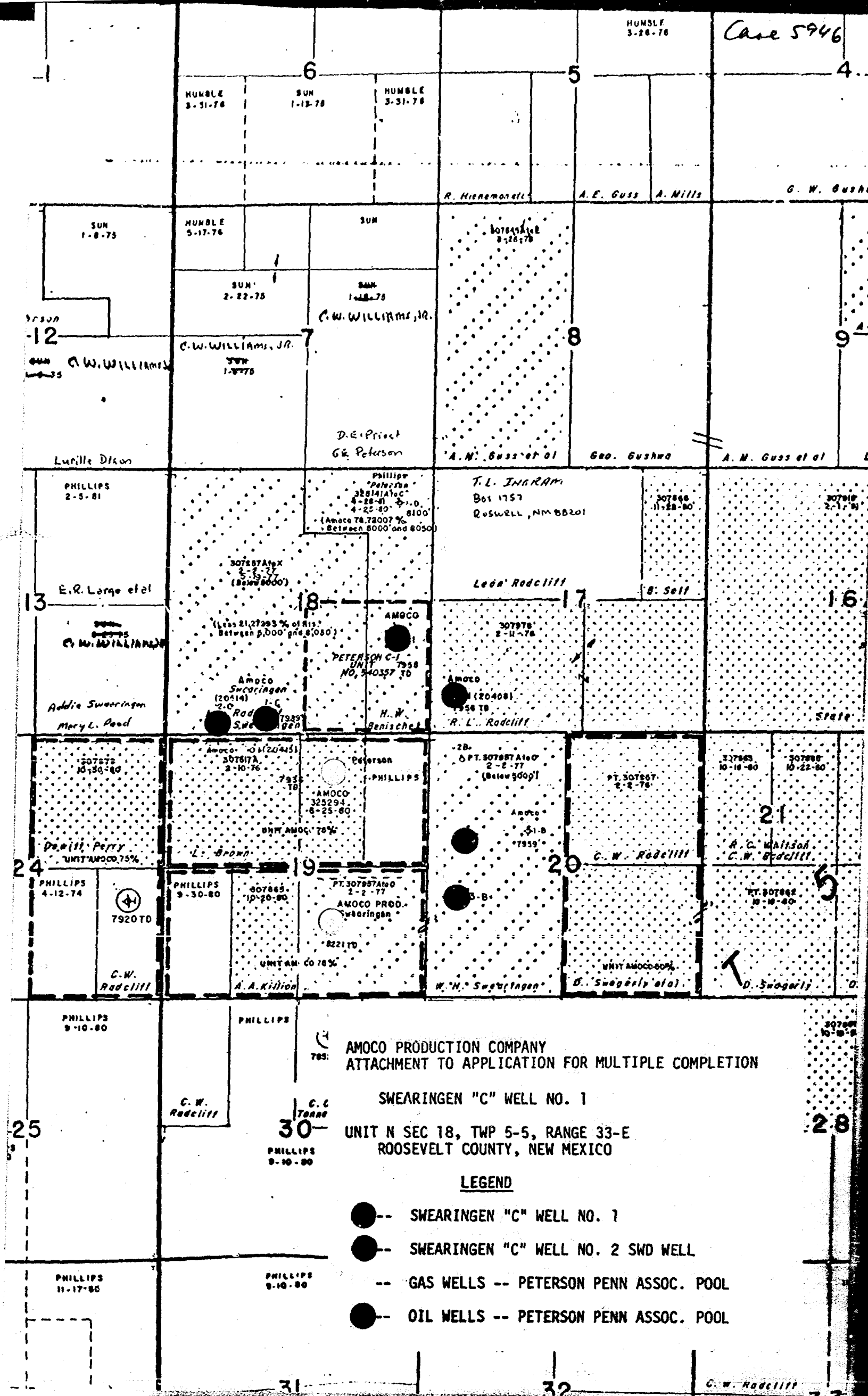
FUSSELMAN PERFS: 7841'-7849' W/2 JSPP

5 1/2" CSA 7989' 7 7/8" H.S. 14, 15.5, 17 #/FT

PBTD 7980' CMT W/ 750SX CLASS "H" + 0.75% CFR-2
TD 7989'

FLAC NO. 953745

API NO. 3004120411



HUMBLE
3-28-76

Case 5946

HUMBLE
3-31-76

SUN
1-12-78

HUMBLE
3-31-76

R. Hiermonell

A. E. Guss
A. Mills

G. W. Gushwa

SUN
1-8-75

HUMBLE
5-17-76

SUN

307844
8-26-78

SUN
2-22-75

BANK
1-18-78

C. W. Williams, Jr.

C. W. Williams, Jr.

SUN
1-8-75

C. W. Williams, Jr.

D. E. Priest
G. E. Peterson

A. M. Guss et al

Geo. Gushwa

A. M. Guss et al

Lurille Dixon

PHILLIPS
2-5-81

Phillips
Peterson
328141A/C
4-28-81
4-22-80
8100'
(Amoco 78.72007 %
Between 8000' and 8050')

T. L. INGRAM
B61 1757
RUSWELL, NM 88201

307848
11-22-80

307818
2-17-81

E. R. Large et al

307871A/C
5-19-77
(Below 8000')

Lea Radcliff

B. Self

C. W. Williams, Jr.

Addie Swearingen
Mary L. Reed

Amoco
Swearingen
(20414) 1-C
2-C
Radcliff
7925
Swearingen

AMOCO
UNIT
NO. 340357 TD
H. W.
Benischel

Amoco
(20408)
7926 TD
R. L. Radcliff

D. A. Perry
UNIT AMOCO 75%

Amoco
(20414)
307817A
2-10-76
7925
TD

Peterson
PHILLIPS
AMOCO
325294
8-25-80
UNIT AMOCO 78%

2B
PT. 307871A/C
2-2-77
(Below 8000')

PT. 307867
2-2-78

307863
10-18-80

307868
10-22-80

PHILLIPS
4-12-74

PHILLIPS
9-30-80

PT. 307871A/C
2-2-77

AMOCO PROD.
Swearingen

3-B

C. W. Radcliff

A. C. Whitson
C. W. Radcliff

C. W.
Radcliff

A. A. Kilian

W. H. Swearingen

UNIT AMOCO 60%
D. Swearingen et al

D. Swearingen

PHILLIPS
9-10-80

PHILLIPS

AMOCO PRODUCTION COMPANY
ATTACHMENT TO APPLICATION FOR MULTIPLE COMPLETION

SWEARINGEN "C" WELL NO. 1

UNIT N SEC 18, TWP 5-5, RANGE 33-E
ROOSEVELT COUNTY, NEW MEXICO

LEGEND

- -- SWEARINGEN "C" WELL NO. 1
- -- SWEARINGEN "C" WELL NO. 2 SWD WELL
- GAS WELLS -- PETERSON PENN ASSOC. POOL
- -- OIL WELLS -- PETERSON PENN ASSOC. POOL

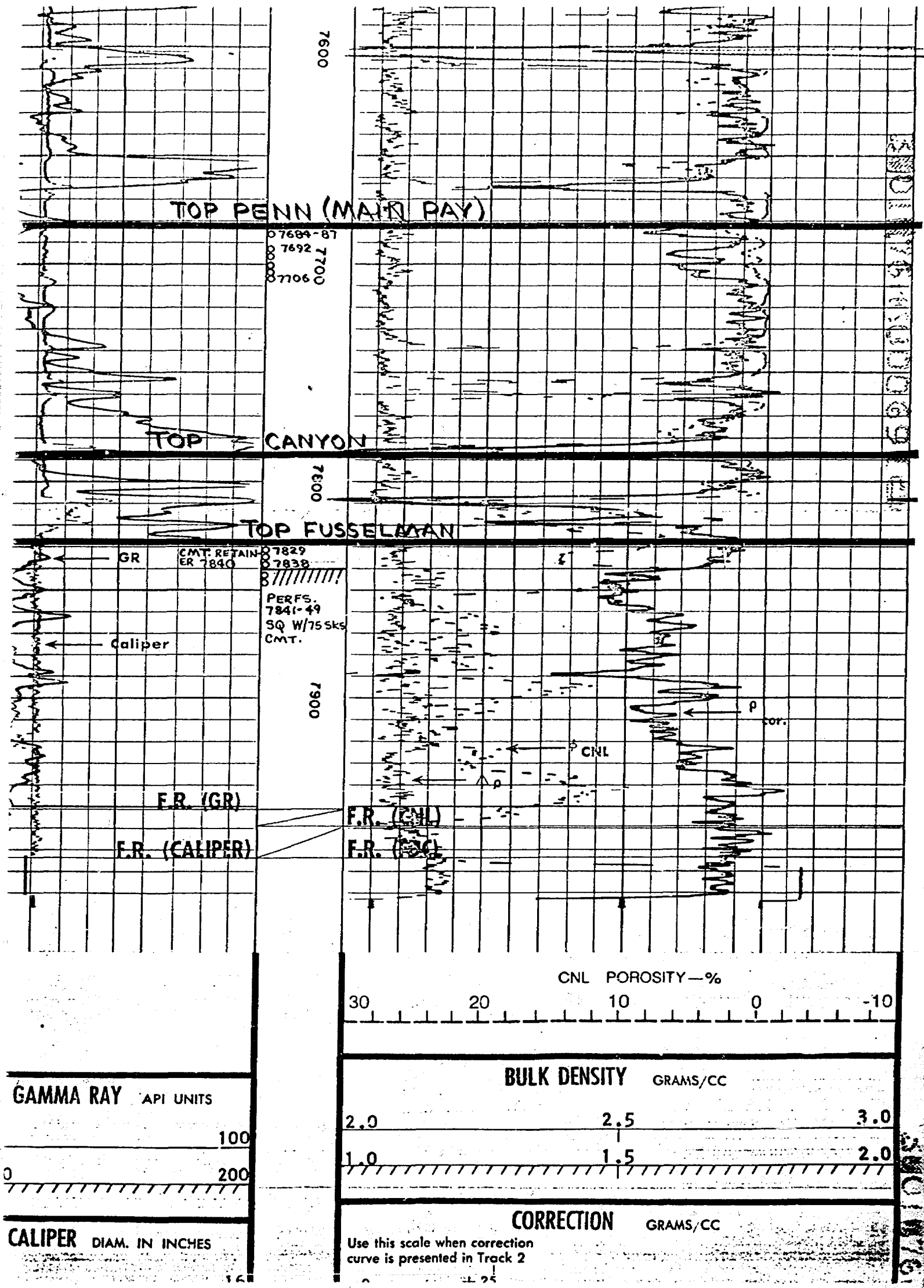
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PHILLIPS
9-10-80

G. W. Radcliff

Case 5946

AMOCO PRODUCTION COMPANY SWEARINGEN C#1
PETERSON (PENN & FUSSELMAN) FIELD
Roosevelt County, New Mexico
Unit N 554' FSL & 2078' FWL Sec. 18, T-5-S, R-33-E
Elev. 4439'



ROUGH

dr/

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:

JSU
CASE NO. 5946
Order No. R- 5471

APPLICATION OF AMOCO PRODUCTION
COMPANY FOR A DUAL COMPLETION AND A
NON-STANDARD PRORATION UNIT,
ROOSEVELT COUNTY, NEW MEXICO.

ORDER OF THE COMMISSION

BY THE COMMISSION:

This cause came on for hearing at 9 a.m. on June 8, 1977,
at Santa Fe, New Mexico, before Examiner Daniel S. Nutter.

NOW, on this _____ day of June, 1977, 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, Amoco Production Company, seeks
approval of a 160-acre non-standard gas proration unit comprising
the SW/4 of Section 18, Township 5 South, Range 33 East, NMPM, to
be dedicated to its Swearingen "C" Well No. 1, located in Unit N of
said Section 18.

(3) That applicant further seeks approval for the dual
completion of the above-described well to produce gas from the
Pennsylvanian formation and oil from the Fusselman formation through
(conventional) *Peterson-Pennsylvanian Associated Pool*

(4) That the entire non-standard proration unit may reasonably
be presumed productive of gas from the Pennsylvanian formation and
~~oil from the Fusselman formation~~ and that the entire non-standard
gas proration unit can be efficiently and economically drained
and developed by the aforesaid well.

*the casing-tubing annulus and 2 3/8-inch tubing, respectively,
separation of the zones to be achieved by means of a
packer set at approximately 7730 feet.*

(5) That the mechanics of the proposed dual completion
are feasible and in accord with good conservation practices.

Roosevelt County, New Mexico

(6) That approval of the subject application will afford the applicant the opportunity to produce ^{its} just and equitable share of the ^{oil and} gas in the Peterson-Fusselman Pool and the Peterson-Pennsylvanian Associated Pool, will prevent the economic loss caused by the drilling of unnecessary wells, avoid the augmentation of risk arising from the drilling of an excessive number of wells, and will otherwise prevent waste and protect correlative rights.

IT IS THEREFORE ORDERED:

(1) That a 160-acre non-standard gas proration unit in the Peterson-Pennsylvanian Associated Pool comprising the SW/4 of Section 18, Township 5 South, Range 33 East, NMPM, Roosevelt County, New Mexico, is hereby established and dedicated to its Swearingen "C" Well No. 1, located in Unit N of said Section 18.

(2) That the applicant is hereby authorized to ~~completely~~ ^{completely} complete ^{said well as a} ~~Mexico, as a~~ ^A ~~dual~~ completion ^(conventional) ~~(combination)~~ ^{fit} to produce gas ~~(tubingless)~~ from the Peterson-Pennsylvanian Pool through the casing-tubing annulus and to produce oil from the Peterson-Fusselman Pool through 2 3/8-inch tubing, separating said zones by means of a packer set at approximately 7,730 feet.

PROVIDED HOWEVER, that the applicant shall complete, operate, and produce said well in accordance with the provisions of Rule 112-A of the Commission Rules and Regulations insofar as said rule is not inconsistent with this order;

PROVIDED FURTHER, that the applicant shall ~~take~~ ^{conduct} packer-leakage tests upon completion and annually thereafter during the Annual Gas-Oil Ratio Test Period for the Peterson-Fusselman Pool. ~~in its entirety~~

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

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