

NEW 6919: YATES PETROLEUM CORPORATION  
NEW OWNERSHIP COMBINING OR CONSOLIDATION  
OF TWO POOLS, EDDY COUNTY, NEW MEXICO

Case No.

6919

Application

Transcripts

Small Exhibits

ETC

STATE OF NEW MEXICO  
ENERGY AND MINERALS DEPARTMENT  
OIL CONSERVATION DIVISION  
STATE LAND OFFICE BLDG.  
SANTA FE, NEW MEXICO

4 June 1980

EXAMINER HEARING

IN THE MATTER OF:

Application of Yates Petroleum Corporation for downhole commingling or consolidation of two pools, Eddy County, New Mexico.

CASE  
6919

BEFORE: Daniel S. Nutter

TRANSCRIPT OF HEARING

A P P E A R A N C E S

For the Oil Conservation Division:

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Legal Counsel to the Division  
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For the Applicant:

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## I N D E X

EDDIE MAHFOOD

Direct Examination by Mr. Dickerson

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MR. NUTTER: Call Case Number 6919.

MR. PADILLA: Application of Yates Petroleum Corporation for downhole commingling or consolidation of two pools, Eddy County, New Mexico.

MR. DICKERSON: Chad Dickerson for the applicant, and Mr. Mahfood, the witness in the previous case is still our witness at this point.

MR. NUTTER: Is he still under oath?

MR. DICKERSON: Yes, sir.

EDDIE MAHFOOD

being called as a witness and having been previously sworn upon his oath, testified as follows, to-wit:

DIRECT EXAMINATION

BY MR. DICKERSON:

Q. Mr. Mahfood, are you familiar with the application of Yates in this proceeding under 6919?

A. Yes, sir, I am.

Q. Would you briefly describe the purpose?

A. We're seeking permission to downhole commingle in two wells or possibly extending -- these wells, there are two pools adjoining one another, and we could consolidate the two pools into one.

Q. Mr. Mahfood, refer for clarity to Exhibit

Number One and describe what it shows, please.

A Okay. Designated in red is the Penasco -- on the right side of the -- in 18, 25 is the Penasco Draw Permo-Penn Gas Pool.

On the left side is the 4-Dinkus Cisco Gas Pool. In yellow is our Cisco completions which have since been added to the Penasco Draw Permo-Penn, which brings the two pools abutting one another.

Q That's the acreage colored yellow?  
A That is correct, the acreage colored yellow.

Q Now point out for the Examiner the wells which are concerned in these applications today.

A Okay, in blue is the Anderson State "CS" No. 1, which is presently completed in the Wolfcamp and has been completed in the Cisco previously.

In green is the West 4-Dinkus "HZ" State No. 1, which is presently completed in the Wolfcamp, has been completed in the Cisco, has not been produced from either zone.

Q Now what purpose would be served by the consolidation of these two gas pools, Mr. Mahfood, into one Penasco Draw Permo-Penn Pool?

A Okay. The two pools have in common a reef buildup running from northeast to southwest and the Cisco and the Wolfcamp is presently in both pools. Additional

wells will be completed in the Permo-Penn and we feel like we need to establish a condition whereby this can be administratively in the future.

MR. NUTTER: Well, now, Mr. Mahfood, you've got the Penasco Draw Permo-Penn over here.

A Yes, sir.

MR. NUTTER: To the east. And I presume that this pool was created for the Lower Permian and the Upper part of the Pennsylvanian. Would it be the Wolfcamp and the Cisco if you could identify them that would be present in the Penasco Draw Permo-Penn?

A Yes, sir. At the moment I don't -- I'm not aware of any Wolfcamp completions in the Penasco Draw Permo-Penn but --

MR. NUTTER: There must have been some lower Permian completions in there when we created it, though, weren't they?

A Yeah, there's some Cisco completions, yes.

MR. NUTTER: Well, that would be Pennsylvanian. What about the Permo part of this? There must have been some lower Permian production of some sort. Wolfcamp or something else.

A Yes, sir, I -- right offhand -- yeah, I think the "AB" No. 5 there was a Wolfcamp -- that's a wildcat.

It says "WC" discovery. I don't know whether that's a Wolfcamp discovery or --

MR. NUTTER: It says it was a Wolfcamp discovery, doesn't it?

A. It could be a Wolfcamp discovery in the Federal "AB" No. 5 in Section 21 of 18, 25.

MR. NUTTER: And then down here in Section 31, this No. "IW" or whatever it is looks like a Wolfcamp well.

A. Yes, sir, that was a Wolfcamp well at one time. It is now plugged back.

MR. NUTTER: But now these wells over here in the 4-Dinkus Cisco, they were originally Cisco wells and two of them have been recompleted in the Wolfcamp now.

A. That is -- that is correct.

MR. NUTTER: So if we did have a consolidation of the two pools in a Permo-Penn type nomenclature, all of these zones could be commingled.

A. That is correct, yes, sir.

MR. NUTTER: It would be a common pool throughout. Apparently they can be in the east side here.

A. Yes, sir.

MR. NUTTER: Because it's called Permo-Penn.

A. That is correct, yes, sir.

MR. NUTTER: Do you have plans for any additional wells over here in the west side? Are these the only two wells in this pool?

A. The Spearman "KO" is presently completed in the Atoka and it has Permo-Penn possibilities.

MR. NUTTER: Where is it?

A. It is in the west half of Section 13 of

18, 24.

MR. NUTTER: Okay, so it's not in any pool right now, is it?

A. It's in -- I think it's in the Penasco Draw Atoka at the present time.

MR. NUTTER: Where is the Penasco Draw Atoka Gas Pool, then? Where does it go?

A. I think that is the only Atoka completion at the present time, Mr. Examiner. I do know that there are additional wells planned to be drilled in this area and I'm not sure that there are any other Atoka completions at this time.

MR. NUTTER: Well, do we have a pool called Penasco Draw Atoka?

A. I believe the Spearman was classified as Atoka. I cannot swear to it.

MR. NUTTER: Because if we have a Penasco Draw Atoka in between here, this might present a problem to

the combination of the two pools.

Now you did state that the two wells that are on the tracts colored yellow have been recently recom -- completed, and what are they?

A. They're now classified as Penasco Draw

Permo-Penn. They're both Cisco completions.

MR. NUTTER: They're Cisco completions in the Penasco Draw Permo-Penn and the pool has been extended to take them in?

A. Mr. Examiner, I don't know whether this-- I don't know whether the Commission has already done this officially or not, but I know it is planned to be done.

MR. NUTTER: Well, it wasn't on the docket for the nomenclature today, anyway.

Okay, go ahead with your testimony. I was just trying to see if it was logical to combine the pools and then we could dispense with the portion of the case that relates to the downhole commingling of the wells individually.

A. Mr. Examiner --

MR. NUTTER: You better present a case to the individual commingling. We might have problems with the consolidation of the pools.

A. Yes, sir. Mr. Examiner, may I mention that I have discussed this with the District Supervisor and he asked me to bring up this case.

MR. NUTTER: Did he seem to indicate a preference as to which way it ought to go?

A He thought there would be no problem consolidating them; but he didn't say whether or not he was for it.

MR. NUTTER: I see. Okay, go ahead.

Q Mr. Mahfood, refer to Exhibit Number Two and describe what it shows.

A Exhibit Number Two is a diagrammatic sketch of the proposed dual and downhole commingling of the Anderson "CS" State No. 1-Y. In yellow is the indication of the equipment in the hole at the present time. To commingle it we would have to remove that equipment, extend the tubing with the packer and the sliding sleeve in an open position so that the Wolfcamp can enter the tubing with the Cisco, thereby permitting downhole commingling.

The Wolfcamp gas was potentialized for 750 Mcf per day and at the present time I believe -- well, I have an exhibit that will tell us, at the present time the Wolfcamp zone is producing in the neighborhood of 190,000 a day. That's the Wolfcamp zone. And the Cisco zone is producing approximately 100,000 a day.

Q So Exhibit Number Two is your plan for the Anderson Well, Mr. Mahfood. What is Exhibit Number Three?

A Exhibit Number Three is a diagrammatic

sketch showing the proposed dual completion downhole commingling in the 4-Dinkus State "HC" Com No. 1.

Again in yellow is the present equipment in the hole. We propose to remove some of this to permit the downhole commingling. The packer at 5006 feet and the retrievable bridge plug at 5326 would have to be removed. The tubing will need to be extended with an open sliding sleeve and a packer. The packer will be set at approximately 6400 feet and the open sliding sleeve will permit the Wolfcamp and any condensate it produces to enter the tubing, to be assisted by the Cisco zone to keep the well unloaded, which will enhance production from both zones.

MR. NUTTER: What would be your plugback total depth on the well, then, Mr. Mahfood?

A. At the present time --

MR. NUTTER: No, I mean after you recomplete it.

A. Okay, after we recomplete the plugback will be 7855.

MR. NUTTER: So this blanking plug here in the Canyon would be removed or unplugged?

A. Yes.

MR. NUTTER: And those Canyon zone perfs down there would -- at 7523 to 7528 would be producing?

A. That is correct, yes, sir, providing --

MR. NUTTER: Everything above 7855 would produce, then.

A. No, sir. At this time we hadn't planned to produce the -- below the -- I'm sorry, could you repeat the question?

MR. NUTTER: Everything above 7855.

A. Yes, sir.

MR. NUTTER: Would be open to production?

A. Yes, sir.

MR. NUTTER: Okay. Go ahead.

Q. Now, Mr. Mahfood, do you intend to commingle Canyon production in this well?

A. I consider Canyon to be a part of the Upper Penn. Yes.

Q. Refer to Exhibit Number Four and describe what it shows, please.

A. Exhibit Number Four is a copy of our -- a reduced copy of the density log of the Anderson State "CS" No. 1. On the left side is the porosity log in yellow -- in orange is the indicated porosities for the Wolfcamp and the Upper Penn and in the center of the log is the perforations. On the right side colored orange is the separation of the induction logs and in yellow would be the separation of the focus log, which is an indication of filter cake.

Q. Mr. Mahfood, refer to Exhibit Number Five

and describe what it is.

A. Exhibit Number Five is a reduced copy of the log on the West 4-Dinkus State "HC". Again on the left we have the -- I believe that is the dual lateral log. No, I beg your pardon. On the left we have the porosity log. On the right we have the dual lateral log. The porosities again are shown on the left in orange. In the center is the indicated perforations, and on the right we show the separation of the dual lateral logs in orange and the separation of the RXO log in yellow.

Q. Mr. Mahfood, turn to Exhibit Number Six and describe what it shows.

A. Exhibit Number Six is the production history of the Anderson State "CS" No. 1. On the left side we see the tubing pressure decline and the production decline over a period of several months. At the time when the Cisco was temporarily abandoned cumulative production was 76,888 Mcf plus 319 barrels of condensate. On the right half is the tubing pressure decline and the production decline of the Wolfcamp zone and to date the cumulative production from the Wolfcamp zone is approximately 7,700 Mcf plus 200 barrels of condensate.

Q. What do you know about the production history of your 4-Dinkus Well?

A. Oh, both zones make condensate and

they're both in a reef, and any fluids produced will be compatible with one another. Both zones are very tight and by commingling the two zones they will enhance the production of each other. They will lighten the amount of fluid in the wellbore that is restricting the flow at the present time.

Q. Mr. Mahfood, turn to Exhibit Number Seven and tell the Examiner what that exhibit shows.

A. Exhibit Number Seven original bottom hole pressure on the Anderson State "CS" in the Cisco zone prior to putting the well on production. It shows a bottom hole pressure of 2288, which compares with a drill stem test of 2295, and that's it.

Q. And it's my understanding that you intend to not offer Exhibit Number Eight, is that correct.

A. Yes, we withdraw Exhibit Number Eight.

Q. Please refer to Exhibit Number Nine and tell us what it shows.

A. Exhibit Number Nine is the original pressure in the Anderson State "CS" Wolfcamp completion, showing a bottom hole pressure of 1922.

Q. Mr. Mahfood, in your opinion would the granting of these applications for downhole commingling result in the recovery of gas which would not otherwise be recovered?

A. I believe it would.

Q In your opinion is the plan for the method of accomplishing the purposes sought here adequate to prevent waste and prevent any damage to the reservoirs?

A Yes.

Q And in your opinion would the granting of these applications otherwise be in the interest of conservation and the protection of correlative rights?

A I believe it would.

Q Were Exhibits One through Seven and Nine either prepared -- compiled by you or you've studied them so you would know the matters shown there of your own knowledge?

A Yes.

MR. DICKERSON: Mr. Examiner, we'd move the admission of Exhibits One through Seven and Nine.

MR. NUTTER: Yates Exhibits One through Seven and Exhibit Nine will be admitted in evidence.

MR. DICKERSON: And that concludes our direct examination.

#### CROSS EXAMINATION

BY MR. NUTTER:

Q Now, Mr. Mahfood, these pressures you gave me here, Exhibit Number Seven is the original pressure in the Cisco and it's 2288. Exhibit Nine is the original pressure in the Wolfcamp and it's 1922. Do you have what

the current pressures would be, or an estimate thereof?

A No, sir, I don't have that information at this time. I could -- I could possibly -- I'm sure I could compute --

Q If you could give me an estimate of what the pressures are in the two zones.

Another question, is the ownership identical throughout the vertical limits here of these zones we're talking about?

A Yes, sir.

MR. NUTTER: Are there any further questions of Mr. Mahfood? He may be excused.

Do you have anything further, Mr. Dicker-  
son?

MR. DICKERSON: No, sir.

MR. NUTTER: Does anyone have anything they wish to offer in Case 6919?

We'll take the case under advisement.

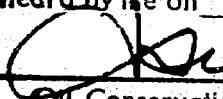
(Hearing concluded.)

1 C E R T I F I C A T E  
2

3 I, SALLY W. BOYD, C.S.R., DO HEREBY CERTIFY that  
4 the foregoing Transcript of Hearing before the Oil Conserva-  
5 tion Division was reported by me; that the said transcript  
6 is a full, true, and correct record of the hearing, prepared  
7 by me to the best of my ability.  
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SALLY W. BOYD, C.S.R.  
Rt. 1 Box 193-B  
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Phone (505) 455-7409

I do hereby certify that the foregoing is  
a complete record of the proceedings in  
the Examiner hearing of Case No. 6919,  
heard by me on 2/4 1985.

  
\_\_\_\_\_, Examiner  
Oil Conservation Division



STATE OF NEW MEXICO  
ENERGY AND MINERALS DEPARTMENT  
OIL CONSERVATION DIVISION

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August 6, 1980

Mr. Chad Dickerson  
Lessee, Carson & Dickerson  
Attorneys at Law  
Post Office Box 239  
Artesia, New Mexico 88210

Re: CASE NO. 6919  
ORDER NO. R-6418

Applicant:

Yates Petroleum Corporation

Dear Sir:

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

Yours very truly,

JOE D. RAMEY  
Director

JDR/fd

Copy of order also sent to:

Hobbs OCD x  
Artesia OCD x  
Aztec OCD \_\_\_\_\_

Other \_\_\_\_\_

STATE OF NEW MEXICO  
ENERGY AND MINERALS DEPARTMENT  
OIL CONSERVATION DIVISION

IN THE MATTER OF THE HEARING  
CALLED BY THE OIL CONSERVATION  
DIVISION FOR THE PURPOSE OF  
CONSIDERING:

CASE NO. 6919  
Order No. R-6418

(NOMENCLATURE)

APPLICATION OF YATES PETROLEUM  
CORPORATION FOR DOWNHOLE COMMINGLING  
OR CONSOLIDATION OF TWO POOLS,  
EDDY COUNTY, NEW MEXICO.

ORDER OF THE DIVISION

BY THE DIVISION:

This cause came on for hearing at 9 a.m. on June 4, 1980,  
at Santa Fe, New Mexico, before Examiner Daniel S. Nutter.

NOW, on this 4th day of August, 1980, the Division  
Director, 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 Division has jurisdiction of this cause and the subject matter thereof.
- (2) That the applicant, Yates Petroleum Corporation, seeks authority to commingle Wolfcamp and Cisco gas production in the wells of its Anderson State "CS" Com Well No. 1-Y, located 1980 feet from the North line and 1800 feet from the East line of Section 14, Township 18 South, Range 24 East, NMMP, Fordinkus-Cisco Gas Pool, Eddy County, New Mexico, or, in the alternative, seeks that said Fordinkus-Cisco Gas Pool be consolidated with the Penasco Draw Permo-Penn Gas Pool which lies approximately one mile to the East.
- (3) That said Penasco Draw Permo-Penn Gas Pool was created and defined by the Division to include wells such as the aforesaid Anderson State "CS" Com Well No. 1-Y which are capable of gas production from the Lower Permian (Wolfcamp) formation and from the Upper Pennsylvanian (Cisco) formation, both in marginal quantities and with similar reservoir pressures.

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Case No. 6919  
Order No. R-6418

(4) That the abolishment of the Fordinkus-Cisco Gas Pool and the concomitant extension of the Penasco Draw Permo-Penn Gas Pool to include, among other lands, the lands currently contained in said Fordinkus Pool is reasonable, may permit the completion in and production from marginal zones that would otherwise be uneconomical to produce, and otherwise prevent waste, and will not impair correlative rights, and should be approved.

(5) That the Fordinkus-Cisco Gas Pool should be abolished, and the Penasco Draw Permo-Penn Gas Pool as heretofore created, defined, and described, should be extended to include therein:

TOWNSHIP 18 SOUTH, RANGE 24 EAST, NMPM

Section 13: All  
Section 14: E/2  
Section 22: E/2  
Sections 23 and 24: All  
Section 25: N/2

IT IS THEREFORE ORDERED:

(1) That the Fordinkus-Cisco Gas Pool in Eddy County, New Mexico, as hereto created, defined, and described, is hereby abolished.

(2) That the Penasco Draw Permo-Penn Gas Pool in Eddy County, New Mexico, as heretofore created, defined, and described, is hereby extended to include therein:

TOWNSHIP 18 SOUTH, RANGE 24 EAST, NMPM

Section 13: All  
Section 14: E/2  
Section 22: E/2  
Sections 23 and 24: All  
Section 25: N/2

That that portion of the application in this case relating to downhole commingling in applicant's Anderson State "C5" Well No. 1-Y is hereby dismissed.

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

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Case No. 6919  
Order No. R-6418

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

STATE OF NEW MEXICO  
OIL CONSERVATION DIVISION

*Joe D. Ramey*  
JOE D. RAMEY,  
Director

S E A L

dr/

Docket No. 17-80

Dockets Nos. 19-80 and 20-80 are tentatively set for June 25 and July 9, 1980. Applications for hearing must be filed at least 22 days in advance of hearing date.

DOCKET: COMMISSION HEARING - THURSDAY - JUNE 5, 1980

OIL CONSERVATION COMMISSION - 9 A.M. - ROOM 205  
STATE LAND OFFICE BUILDING, SANTA FE, NEW MEXICO

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- CASE 6927: Application of Doyle Hartman for compulsory pooling and an unorthodox location, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks an order pooling all mineral interests in the Pennsylvanian formation underlying the S/2 of Section 24, Township 17 South, Range 28 East, to be dedicated to a well to be drilled at an unorthodox location 660 feet from the South and West lines of said Section 24. 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, designation of applicant as operator of the well, and a charge for risk involved in drilling said well.
- CASE 6928: Application of ARCO Oil and Gas 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 the S/2 of Section 24, Township 17 South, Range 28 East, 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, designation of applicant as operator of the well, and a charge for risk involved in drilling said well.
- \*\*\*\*\*

Docket No. 16-80

DOCKET: EXAMINER HEARING - WEDNESDAY - JUNE 4, 1980

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

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

CASE 6803: (Continued from April 23, 1980, Examiner Hearing)

In the matter of the hearing called by the Oil Conservation Division on its own motion to permit EPROC Associates, Hartford Accident and Indemnity Company, and all other interested parties to appear and show cause why its Monsanto State H Well No. 1 located in Unit E of Section 2, Township 30 North, Range 16 West, San Juan County, should not be plugged and abandoned in accordance with a Division-approved plugging program.

CASE 6906: Application of Amoco Production Company for a dual completion, Lea County, New Mexico. Applicant, in the above-styled cause, seeks approval for the dual completion (conventional) of its South Mattix Unit Well No. 39 located in Unit G of Section 15, Township 24 South, Range 37 East, to produce oil from the Fowler-Upper Yeso and Fowler-Drinkard Pools thru parallel strings of tubing.

CASE 6907: Application of Amoco Production Company for a dual completion, Lea County, New Mexico. Applicant, in the above-styled cause, seeks approval for the dual completion (conventional) of its Myers B Federal Well No. 28 located in Unit M of Section 9, Township 24 South, Range 37 East, to produce gas from the Jalmat and Langlie Mattix Pools thru parallel strings of tubing.

CASE 6908: Application of Estoril Producing Corporation for an unorthodox gas well location, Lea County, New Mexico. Applicant, in the above-styled cause, seeks approval for the unorthodox location of its Curry State Well No. 1, a Pennsylvanian test to be drilled 660 feet from the North and East lines of Section 22, Township 23 South, Range 34 East, Antelope Ridge Field, the N/2 of said Section 22 to be dedicated to the well.

CASE 6909: Application of El Paso Natural Gas Company for downhole commingling, Rio Arriba County, New Mexico. Applicant, in the above-styled cause, seeks approval for the downhole commingling of Basin-Dakota and Largo-Gallup production in the wellbore of its Rincon Unit Well No. 164 located in Unit L of Section 2, Township 26 North, Range 7 West.

CASE 6886: (Continued from May 21, 1980, Examiner Hearing)

Application of Aminoil USA, Inc. for compulsory pooling and an unorthodox location, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks an order pooling all mineral interests in the Wolfcamp and Pennsylvanian formations underlying the S/2 of Section 10, Township 24 South, Range 28 East, to be dedicated to a well to be drilled at an unorthodox location 2080 feet from the South line and 1773 feet from the East line of said Section 10. 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.

CASE 6910: Application of Grace Petroleum Corporation for four compulsory poolings, Rio Arriba County, New Mexico. Applicant, in the above-styled cause, seeks an order pooling all mineral interests in the Gallup formation underlying four 40-acre proration units, being the SE/4 NE/4, the SE/4 NW/4, and the NW/4 NW/4 of Section 28, and the SW/4 SE/4 of Section 29, all in Township 24 North, Range 7 West, each 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 wells and the allocation of the cost thereof as well as actual operating costs and charges for supervision, designation of applicant as operator of the wells, and a charge for risk involved in drilling said wells.

CASE 6911: Application of Grace Petroleum Corporation for compulsory pooling, Rio Arriba County, New Mexico. Applicant, in the above-styled cause, seeks an order pooling all mineral interests in the Gallup formation underlying the NE/4 NW/4 of Section 11, Township 23 North, Range 7 West, 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, designation of applicant as operator of the well, and a charge for risk involved in drilling said well.

CASE 6912: Application of Southland Royalty Company for a dual completion, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks approval for the dual completion of its State "14" Comm. Well No. 1 located in Unit E of Section 14, Township 19 South, Range 29 East, Turkey Track Field, to produce gas from the Morrow and Atoka formations thru tubing and the casing-tubing annulus, respectively.

CASE 6913: Application of Kerr-McGee Corporation for an unorthodox well location, Chaves County, New Mexico. Applicant, in the above-styled cause, seeks approval for the unorthodox location of its State F Well No. 14 to be drilled 1310 feet from the North line and 1330 feet from the West line of Section 2, Township 8 South, Range 33 East, Chaverro-San Andres Pool.

CASE 6914: Application of Wilson Oil Company for a non-standard proration unit and unorthodox location, Lea County, New Mexico. Applicant, in the above-styled cause, seeks approval of a 320-acre non-standard gas proration unit comprising the S/2 of Section 29, Township 20 South, Range 36 East, North Osudo-Morrow Gas Pool, to be dedicated to its State JD Well No. 1 at an unorthodox location 1650 feet from the South line and 1980 feet from the West line of said Section 29.

CASE 6915: Application of Jake L. Hamon for a non-standard gas proration unit and an unorthodox well location, Lea County, New Mexico. Applicant, in the above-styled cause, seeks approval of a 320-acre non-standard gas proration unit comprising the S/2 of Section 8, Township 20 South, Range 36 East, North Osudo-Morrow Gas Pool, to be dedicated to a well to be drilled at an unorthodox location 660 feet from the South line and 1980 feet from the West line of said Section 8.

CASE 6916: Application of Petro-Lewis Corporation for downhole commingling, Lea County, New Mexico. Applicant, in the above-styled cause, seeks approval for the downhole commingling of the Drinkard and Blinebry production in the wellbore of its State DC Well No. 1, a quadruple completion located in Unit F of Section 19, Township 21 South, Range 37 East.

CASE 6917: Application of Yates Petroleum Corporation for an NGPA determination, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks a new onshore reservoir determination for its Goat Roper "LP" Com. Well No. 1 located in Unit F of Section 30, Township 17 South, Range 26 East.

CASE 6918: Application of Yates Petroleum Corporation for downhole commingling, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks authority to commingle Upper Penn and Morrow gas production in the wellbore of its Kennedy "JQ" Com. Well No. 1 located in Unit H of Section 33, Township 17 South, Range 26 East, Kennedy Farms Field.

CASE 6919: Application of Yates Petroleum Corporation for downhole commingling or consolidation of two pools, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks approval for the downhole commingling of Wolfcamp and Penn gas production in the wellbore of its Anderson State "CS" Com. Well No. 1-Y located in Unit G of Section 14, and its Fordinkus State "HZ" Com. Well No. 1 located in Unit G of Section 22, both in Township 18 South, Range 24 East, or, in the alternative, the consolidation of the Fordinkus-Cisco Gas Pool and the Penasco Draw Permo-Penn Gas Pool into one Permo-Penn gas pool to include the above-described wells.

CASE 6920: Application of Yates Petroleum Corporation for a dual completion and unorthodox well location, Chaves County, New Mexico. Applicant, in the above-styled cause, seeks approval for the dual completion (conventional) of its 5 Mile Draw Federal Well No. 1 to produce from the Pennsylvanian and Abo formations thru the tubing and casing-tubing annulus, respectively; applicant also seeks approval for the unorthodox location of said well in the Abo formation 800 feet from the South line and 2100 feet from the East line of Section 34, Township 6 South, Range 25 East, the SE/4 of the section to be dedicated to the well.

CASE 6903: (Continued from May 21, 1980, Examiner Hearing)

Application of Harvey E. Yates Company for an unorthodox gas well location, Lea County, New Mexico. Applicant, in the above-styled cause, seeks approval for the unorthodox location of a Pennsylvanian-Mississippian test well to be drilled 660 feet from the South line and 990 feet from the East line of Section 33, Township 13 South, Range 36 East, the S/2 of said Section 33 to be dedicated to the well.

CASE 6904: (Continued from May 21, 1980, Examiner Hearing)

Application of Harvey E. Yates Company for a unit agreement, Lea County, New Mexico. Applicant, in the above-styled cause, seeks approval for the McDonald Unit Area, comprising 1,440 acres, more or less, of fee lands in Townships 13 and 14 South, Range 36 East.

CASE 6921: Application of Harvey E. Yates Company for compulsory pooling, Lea County, New Mexico. Applicant, in the above-styled cause, seeks an order pooling all mineral interests in the Wolfcamp-Mississippian formations underlying the S/2 of Section 33, Township 13 South, Range 36 East, to be dedicated to a well to be drilled at an unorthodox location 660 feet from the South and East lines of Section 33. 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, designation of applicant as operator of the well, and a charge for risk involved in drilling said well.

CASE 6922: Application of Harvey E. Yates Company for compulsory pooling, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks an order pooling all mineral interests in the Wolfcamp-Pennsylvanian formations underlying the E/2 of Section 24, Township 18 South, Range 28 East, 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, designation of applicant as operator of the well and a charge for risk involved in drilling said well.

CASE 6923: Application of Harvey E. Yates Company for a unit agreement, Lea County, New Mexico. Applicant, in the above-styled cause, seeks approval for the Clayton-Austin Unit Area, comprising 960 acres, more or less, of State and fee lands in Township 14 South, Range 36 East.

CASE 6924: Application of Caribou Four Corners, Inc. for two unorthodox oil well locations, San Juan County, New Mexico. Applicant, in the above-styled cause, seeks approval for the unorthodox location of two wells to be drilled, the first being 860 feet from the North line and 2090 feet from the West line, and the second being 910 feet from the North line and 395 feet from the West line, both in Section 13, Township 29 North, Range 15 West, Cha Cha-Gallup Oil Pool, the E/2 and the W/2, respectively, of the NW/4 of said Section 13 to be dedicated to the wells.

CASE 6925: Application of Caribou Four Corners, Inc. for two exceptions to Rule 306, San Juan County, New Mexico. Applicant, in the above-styled cause, seeks an exception to Rule 306 of the Division Rules and Regulations to permit the permanent flaring of gas from its Kirtland Wells Nos. 1 and 2, located in Units A and B, respectively, of Section 13, Township 29 North, Range 15 West.

CASE 6889: (Readvertised)

Application of Belco Petroleum Corporation for directional drilling, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks authority to directionally drill a well, the surface location of which is 1980 feet from the North line and 920 feet from the West line of Section 36, Township 22 South, Range 30 East, in such a manner as to bottom it at an unorthodox location within 660 feet of a point 1320 feet from the North line and 2640 feet from the West line of said Section 36 in the Morrow formation, the N/2 of said Section 36 to be dedicated to the well.

CASE 6896: (Continued from May 21, 1980, Examiner Hearing)

Application of John E. Schalk for a non-standard gas proration unit and an unorthodox gas well location, Rio Arriba County, New Mexico. Applicant, in the above-styled cause, seeks approval of a 160-acre non-standard Blanco Mesaverde gas proration unit comprising the NE/4 of Section 8, Township 25 North, Range 3 West, to be dedicated to his Gulf Well No. 2 to be drilled at an unorthodox location 1925 feet from the North line and 790 feet from the East line of said Section 8.

CASE 6926: In the matter of the hearing called by the Oil Conservation Division on its own motion for an order creating, contracting vertical limits, and extending horizontal limits of certain pools in Chaves, Eddy, and Lea Counties, New Mexico:

(a) CREATE a new pool in Lea County, New Mexico, classified as an oil pool for Pennsylvanian production and designated as the Arkansas Junction-Pennsylvanian Pool. The discovery well is Rex Alcorn Bobbi Well No. 1Y located in Unit J of Section 20, Township 18 South, Range 36 East, NMPM. Said pool would comprise:

TOWNSHIP 18 SOUTH, RANGE 36 EAST, NMPM  
Section 20: SE/4

(b) CREATE a new pool in Eddy County, New Mexico, classified as an oil pool for Delaware production and designated as the Avalon-Delaware Pool. The discovery well is MWJ Producing Company State GW Well No. 1 located in Unit K of Section 36, Township 20 South, Range 27 East, NMPM. Said pool would comprise:

TOWNSHIP 20 SOUTH, RANGE 27 EAST, NMPM  
Section 36: SW/4

(c) CREATE a new pool in Eddy County, New Mexico, classified as an oil pool for Delaware production and designated as the East Burton-Delaware Pool. The discovery well is J. C. Williamson TOG Federal Well No. 1 located in Unit F of Section 16, Township 20 South, Range 29 East, NMPM. Said pool would comprise:

TOWNSHIP 20 SOUTH, RANGE 29 EAST, NMPM  
Section 16: NW/4

(d) CREATE a new pool in Eddy County, New Mexico, classified as a gas pool for Strawn production and designated as the Dog Canyon-Strawn Gas Pool. The discovery well is Harvey E. Yates Company Gates Federal Deep Well No. 1 located in Unit P of Section 6, Township 17 South, Range 28 East, NMPM. Said pool would comprise:

TOWNSHIP 17 SOUTH, RANGE 28 EAST, NMPM  
Section 6: S/2

(e) CREATE a new pool in Chaves County, New Mexico, classified as an oil pool for San Andres production and designated as the South Double L-San Andres Pool. The discovery well is McClellan Oil Corporation Mark Federal Well No. 1 located in Unit I of Section 30, Township 15 South, Range 30 East, NMPM. Said pool would comprise:

TOWNSHIP 15 SOUTH, RANGE 30 EAST, NMPM  
Section 30: SF/4

(f) CREATE a new pool in Eddy County, New Mexico, classified as a gas pool for Grayburg production and designated as the Empire-Grayburg Gas Pool. The discovery well is Carl A. Schellinger West Federal Well No. 1 located in Unit G of Section 14, Township 17 South, Range 27 East, NMPM. Said pool would comprise:

TOWNSHIP 17 SOUTH, RANGE 27 EAST, NMPM  
Section 14: NE/4

(g) CREATE a new pool in Lea County, New Mexico, classified as a gas pool for Morrow production and designated as the North Hume-Morrow Gas Pool. The discovery well is Bass Enterprises Production Company Bass 36 State Well No. 1 located in Unit E of Section 36, Township 15 South, Range 34 East, NMPM. Said pool would comprise:

TOWNSHIP 15 SOUTH, RANGE 34 EAST, NMPM  
Section 36: W/2

(h) CREATE a new pool in Lea County, New Mexico, classified as a gas pool for Atoka production and designated as the Lusk-Atoka Gas Pool. The discovery well is Phillips Petroleum Company Lusk Deep Unit A Com Well No. 13 located in Unit K of Section 18, Township 19 South, Range 32 East, NMPM. Said pool would comprise:

TOWNSHIP 19 SOUTH, RANGE 32 EAST, NMPM  
Section 18: S/2

Page 5 of 7  
Examiner Hearing - Wednesday - June 4, 1980

Docket No. 16-80

(i) CREATE a new pool in Eddy County, New Mexico, classified as a gas pool for Morrow production and designated as the Milepost-Morrow Gas Pool. The discovery well is Exxon Corporation Scheidt Federal Well No. 1 located in Unit L of Section 30, Township 26 South, Range 26 East, NMPM. Said pool would comprise:

TOWNSHIP 26 SOUTH, RANGE 25 EAST, NMPM  
Section 36: N/2 N/2 and Lots, 1, 2,  
3, and 4

TOWNSHIP 26 SOUTH, RANGE 26 EAST, NMPM  
Section 30: S/2  
Section 31: N/2 NW/4 and Lots 3 and 4

(j) CREATE a new pool in Eddy County, New Mexico, classified as a gas pool for Atoka production and designated as the Turkey Track-Atoka Gas Pool. The discovery well is Tenneco Oil Company State HL 11 Well No. 1 located in Unit N of Section 11, Township 19 South, Range 29 East, NMPM. Said pool would comprise:

TOWNSHIP 19 SOUTH, RANGE 29 EAST, NMPM  
Section 10: E/2  
Section 11: S/2

(k) CONTRACT the vertical limits of the East Grama Ridge-Bone Springs Pool to the interval from 10,472 feet to 10,900 feet as found on the type log for the Getty Oil Company State 35 Well No. 1 located in Unit K of Section 35, Township 21 South, Range 34 East, NMPM, and redesignate said pool as the East Grama Ridge-Lower Bone Springs Pool.

(l) EXTEND the Airstrip-Upper Bone Springs Pool in Lea County, New Mexico, to include therein:

TOWNSHIP 18 SOUTH, RANGE 34 EAST, NMPM  
Section 25: W/2 SW/4  
Section 26: SE/4

(m) EXTEND the Atoka-Yeso Pool in Eddy County, New Mexico, to include therein:

TOWNSHIP 18 SOUTH, RANGE 26 EAST, NMPM  
Section 33: NW/4 and N/2 S/2

(n) EXTEND the Brunson-Fusselman Pool in Lea County, New Mexico, to include therein:

TOWNSHIP 22 SOUTH, RANGE 37 EAST, NMPM  
Section 8: SE/4

(o) EXTEND the Buckeye-Abo Pool in Lea County, New Mexico, to include therein:

TOWNSHIP 18 SOUTH, RANGE 35 EAST, NMPM  
Section 9: NW/4

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

TOWNSHIP 21 SOUTH, RANGE 26 EAST, NMPM  
Section 13: W/2  
Section 14: E/2

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

TOWNSHIP 20 SOUTH, RANGE 26 EAST, NMPM  
Section 34: S/2

TOWNSHIP 21 SOUTH, RANGE 25 EAST, NMPM  
Section 2: Lots 1 through 8

(r) EXTEND the Chaverroo-San Andres Pool in Chaves County, New Mexico, to include therein:

TOWNSHIP 7 SOUTH, RANGE 32 EAST, NMPM  
Section 34: NE/4

TOWNSHIP 8 SOUTH, RANGE 32 EAST, NMPM  
Section 3: SW/4

(a) EXTEND the Cinta Roja-Morrow Gas Pool in Lea County, New Mexico, to include therein:

TOWNSHIP 24 SOUTH, RANGE 35 EAST, NMPM  
Section 4: All

(b) EXTEND the South Corbin-Strayn Pool in Lea County, New Mexico, to include therein:

TOWNSHIP 18 SOUTH, RANGE 33 EAST, NMPM  
Section 29: N/2  
Section 30: N/2

(c) EXTEND the South Corbin-Wolfcamp Pool in Lea County, New Mexico, to include therein:

TOWNSHIP 18 SOUTH, RANGE 33 EAST, NMPM  
Section 28: W/2

(d) EXTEND the Crooked Creek-Morrow Gas Pool in Eddy County, New Mexico, to include therein:

TOWNSHIP 24 SOUTH, RANGE 24 EAST, NMPM  
Section 8: S/2

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

TOWNSHIP 18 SOUTH, RANGE 29 EAST, NMPM  
Section 17: All

(f) EXTEND the East Grama Ridge-Morrow Gas Pool in Lea County, New Mexico, to include therein:

TOWNSHIP 22 SOUTH, RANGE 34 EAST, NMPM  
Section 12: W/2

(g) EXTEND the Hat Mesa-Morrow Gas Pool in Lea County, New Mexico, to include therein:

TOWNSHIP 21 SOUTH, RANGE 32 EAST, NMPM  
Section 10: W/2

(h) EXTEND the Henshaw Queen-Grayburg-San Andres Pool in Eddy County, New Mexico, to include therein:

TOWNSHIP 16 SOUTH, RANGE 30 EAST, NMPM  
Section 11: SW/4 SW/4  
Section 14: S/2 and W/2 NW/4  
Section 15: E/2 SE/4

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

TOWNSHIP 19 SOUTH, RANGE 38 EAST, NMPM  
Section 4: SE/4

(j) EXTEND the Indian Flats-Delaware Pool in Eddy County, New Mexico, to include therein:

TOWNSHIP 22 SOUTH, RANGE 28 EAST, NMPM  
Section 2: N/2 NE/4

(k) EXTEND the South Kennitz Atoka-Morrow Gas Pool in Lea County, New Mexico, to include therein:

TOWNSHIP 16 SOUTH, RANGE 34 EAST, NMPM  
Section 29: W/2

(l) EXTEND the Logan Draw-San Andres Pool in Eddy County, New Mexico, to include therein:

TOWNSHIP 17 SOUTH, RANGE 27 EAST, NMPM  
Section 19: N/2 NE/4 and SE/4 NE/4

(m) EXTEND the Middle Lynch Yates-Seven Rivers Pool in Lea County, New Mexico, to include therein:

TOWNSHIP 20 SOUTH, RANGE 34 EAST, NMPM  
Section 21: E/2 SW/4

Page 7 of 7  
Examiner Hearing - Wednesday - June 4, 1980

Docket No. 16-80

(ff) EXTEND the Penasco Draw San Andres-Yeso Associated Pool in Eddy County, New Mexico, to include therein:

TOWNSHIP 18 SOUTH, RANGE 25 EAST, NMMP  
Section 31: SW/4

(gg) EXTEND the East Red Lake Queen-Grayburg Pool in Eddy County, New Mexico, to include therein:

TOWNSHIP 16 SOUTH, RANGE 26 EAST, NMMP  
Section 25: S/2 S/2  
Section 26: S/2 SE/4 and SE/4 SW/4  
Section 36: N/2 NW/4

(hh) EXTEND the North Shugart-Morrow Gas Pool in Eddy County, New Mexico, to include therein:

TOWNSHIP 18 SOUTH, RANGE 31 EAST, NMMP  
Section 17: S/2

(ii) EXTEND the Tomahawk-San Andres Pool in Chaves County, New Mexico, to include therein:

TOWNSHIP 7 SOUTH, RANGE 31 EAST, NMMP  
Section 25: SF/4

(jj) EXTEND the Turkey Track Seven Rivers-Queen-Grayburg Pool in Eddy County, New Mexico, to include therein:

TOWNSHIP 19 SOUTH, RANGE 29 EAST, NMMP  
Section 9: E/2 NE/4

(kk) EXTEND the North Vacuum-Abo Pool in Lea County, New Mexico, to include therein:

TOWNSHIP 17 SOUTH, RANGE 35 EAST, NMMP  
Section 17: NW/4

(ll) EXTEND the Winchester-Morrow Gas Pool in Eddy County, New Mexico, to include therein:

TOWNSHIP 20 SOUTH, RANGE 28 EAST, NMMP  
Section 3: All

(mm) EXTEND the Winchester-Upper Pennsylvanian Gas Pool in Eddy County, New Mexico, to include therein:

TOWNSHIP 19 SOUTH, RANGE 29 EAST, NMMP  
Section 30: W/2

\*\*\*\*\*  
Docket No. 18-80

DOCKET: EXAMINER HEARING - THURSDAY - JUNE 19, 1980

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

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

- ALLOWABLE: (1) Consideration of the allowable production of gas for July, 1980, from fifteen prorated pools in Lea, Eddy, and Chaves Counties, New Mexico.  
(2) Consideration of the allowable production of gas for July, 1980, from four prorated pools in San Juan, Rio Arriba, and Sandoval Counties, New Mexico.



207 SOUTH FOURTH STREET  
ARTESIA, NEW MEXICO 88210

TELEPHONE (505) 746-3558

RECEIVED  
JUN 15 1980

OIL CONSERVATION DIVISION  
SANTA FE

S. P. YATES  
PRESIDENT  
MARTIN YATES, III  
VICE PRESIDENT  
JOHN A. YATES  
VICE PRESIDENT  
B. W. HARPER  
SEC. TREAS.

June 16, 1980

New Mexico Oil Conservation Division  
Attention: Mr. Dan Nutter  
P.O. Box 2088  
Santa Fe, New Mexico 87501

Gentlemen:

Enclosed are three copies each of documents labeled Exhibit 10 (a) and Exhibit 10 (b) for OCC Case No. 6919.

Exhibit 10 (a) reflects the calculated bottom hole pressure of the Cisco interval 6351 feet to 6488 feet in Yates Petroleum Corporation's Anderson State "CS" No. 1-y well in SW<sub>1/4</sub> NE<sub>1/4</sub> Section 14, T18S, R24E, NMPM, Eddy County, New Mexico, when the interval was temporarily abandoned in September 1979.

Exhibit 10 (b) shows the results of a bottom hole pressure survey ran on June 12, 1980, for the Wolfcamp interval 5051 feet to 5218 feet. Please advise if any additional information is required.

Sincerely yours,

YATES PETROLEUM CORPORATION

*Eddie M. Mahfood*  
Eddie M. Mahfood  
Engineer

EMM/ob

JUN 1 2 1980

U.L.O.C.C.

NATIONA

L DIVISION

YPC - Anderson State CS #1 Y, G-14-985428 E

Calculations of BHP when Cisco completion 6351-6483 was  
temp abandoned in September 1979.

$$G H = 4406$$

Orig RHP 6/11/73
9/27/79 BHP

$$P_c = 692.5 \text{ psia}$$

$$T_w = 522^{\circ}\text{R}$$

$$510^{\circ}\text{R}$$

$$T_c = 385^{\circ}\text{R}$$

$$T_s = 580^{\circ}\text{R}$$

$$580^{\circ}\text{R}$$

$$T_{avg} = 551^{\circ}\text{R}$$

$$545^{\circ}\text{R}$$

$$Z_{avg} = 0.7315$$

$$0.732$$

$$T_2 = 402.505$$

$$398.94$$

$$GA/T_2 = 10.947$$

$$11.044$$

$$S = 0.0375 \frac{GH}{T_2} = 0.41050$$

$$0.41416$$

$$e^s = 1.50757$$

$$1.5131$$

$$WHP = P_g = 1874.2 \text{ psia}$$

$$1643.2 \text{ psia}$$

$$P_{\text{total}} = 3512626$$

$$2700106$$

$$P_g^2 = e^s P_{\text{total}}^2 = 5295529$$

$$4085531$$

$$P_g = 2301.2 \text{ psia}$$

$$2021.3 \text{ psia}$$

$$P_{\text{avg}} = 2089.2 \text{ psia}$$

$$1832.3 \text{ psia}$$

$$P_c = 3.015 \text{ psig}$$

$$3.646$$

$$T_r = 1.4631$$

$$1.4155$$

$$Z = 0.7315$$

$$0.732$$

Calculated BHP = 2008 psig

*Yates Petroleum Corp.  
Eddies in handwritten Q.C.*

OCC Case 6910 Docket 690 June 1980

Exhibit 210(a)

JUN 1 1980

YPC - Anderson State CS #1 Y, G-14-188+24E SR,  
SA 1700Calculation of BHP when Cisco completion 6351-6483 was  
temp abandoned in September 1979.

$GH = 4406$

Orig BHP 6/11/729/27/79 BHP

$P_c = 692.5 \text{ psia}$

$T_w = 522^\circ R$

$510^\circ R$

$T_c = 385^\circ R$

$T_s = 580^\circ R$

$580^\circ R$

$T_{avg} = 551^\circ R$

$545^\circ R$

$Z_{avg} = 0.7315$

$0.732$

$T_2 = 402.505$

$398.94$

$GH/T_2 = 10.947$

$11.044$

$S = 0.0315 \frac{G^4}{T_2} = 0.41050$

$0.41416$

$e^S = 1.50757$

$1.5131$

$WHP = P_c = 1874.2 \text{ psia}$

$1643.2 \text{ psia}$

$T_w^2 = 3512626$

$2700106$

$P_s^2 = e^S P_w^2 = 5395529$

$4085531$

$P_s = 2301.2 \text{ psia}$

$2021.3 \text{ psia}$

$P_{avg} = 2087.2 \text{ psia}$

$1832.3 \text{ psia}$

$P_c = 3.015 \text{ psig}$

$2.641$

$T_c = 1.4131$

$1.4155$

$Z = 0.7315$

$0.732$

Calculated BHP = 2008 psig

Yates Petroleum Co.  
Claim by Plaintiff Q.C.

OCC Case 6919 Docket # 70 June 4, 1980

Exhibit #10(a)

JUN 1 1980

OCC DIVISION  
SANTA FE

YPC - Anderson State CS #1 Y, G-14-185-24E.

Calculation of BHP when casing completion 6351-6483 was  
temp abandoned in September 1979.Orig BHP 6/11/739/27/79 BHP

G H = 4406

Pc = 692.5 psia

Tc = 385 °R

Tw	522 °R	510 °R
Ts	580 °R	580 °R
Tavg	551 °R	545 °R
Zavg	0.7315	0.732
Tz	402.505	398.94
G4/Tz	10.947	11.044
S = 0.315 $\frac{G4}{Tz}$	0.41050	0.41416
es	1.50757	1.5131
WHP = P <sub>w</sub>	1874.2 psia	1643.2 psia
P <sub>w</sub> = 3513626		2780106
P <sub>s</sub> <sup>2</sup> = es P <sub>w</sub> <sup>2</sup>	5295529	4085531
P <sub>s</sub> = 2301.2 psia		2021.3 psia
P <sub>avg</sub> = 2087.7 psia		1832.3 psia
P <sub>c</sub> = 3.015 psig		2.646
Tc = 1.1631		1.4155
Z = 0.7315		0.732

Calculated BHP = 2008 psig

Yates Petroleum Corp.  
Eddie in behalf of Q.C.

OCC Case 6919 Docket 670 June 4, 1980

Exhibit #10(a)



## BENNETT WIRE LINE SERVICE

P. O. BOX 787  
ARTESIA, NEW MEXICO 88210  
Phone 746-3281



JUN 1 1980

SANTA FE BASIC

MATT LEE

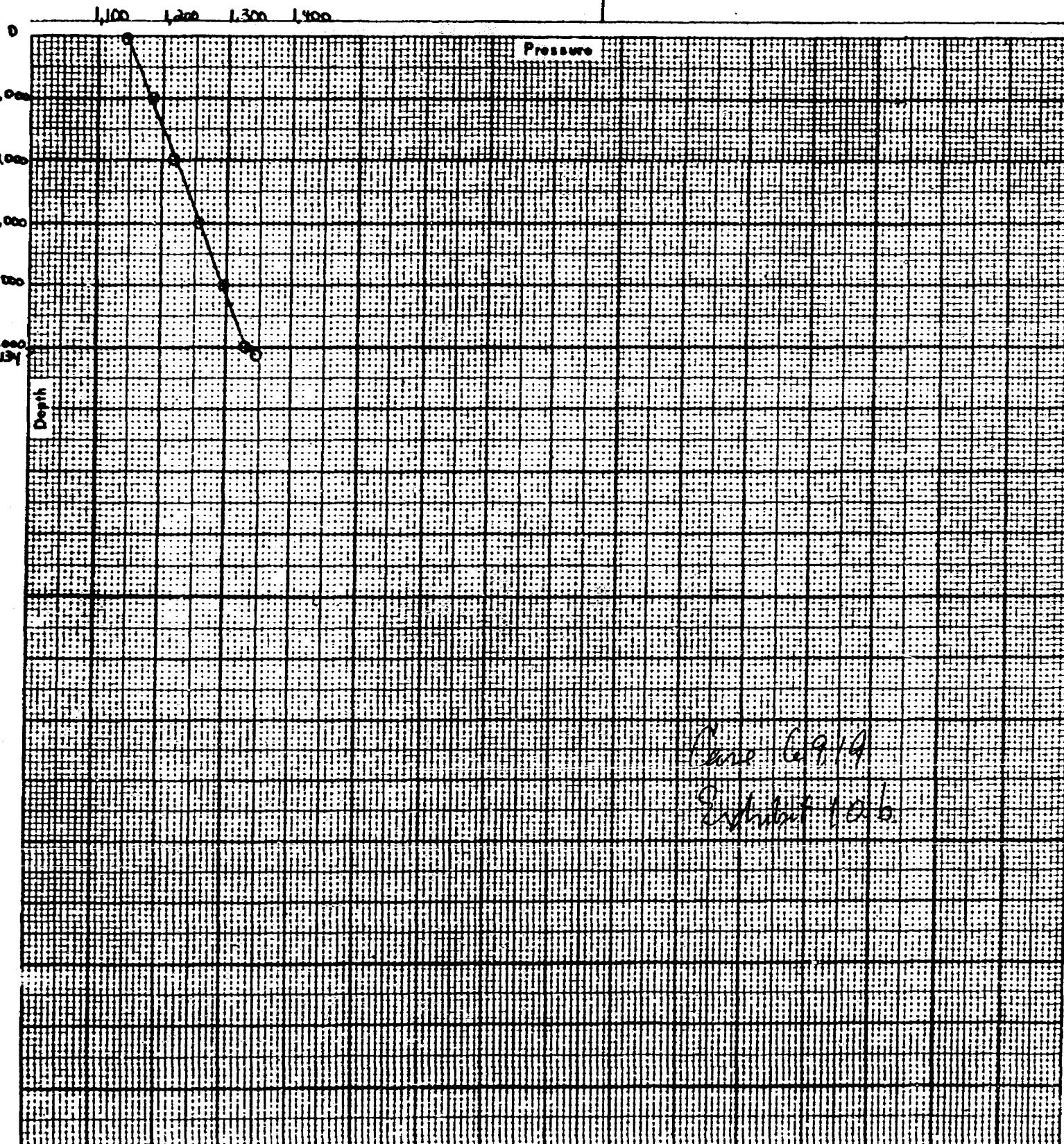
## BOTTOM HOLE PRESSURE SURVEY REPORT

OPERATOR YATES PETROLEUM CORP  
LEASE ANDERSON STATE "CS"  
WELL NO. # 1-Y  
FIELD WOLF CAMP  
DATE 6-12-80 TIME 1200  
STATUS SHUT IN TEST DEPTH 5,134  
TIME S.I. LAST TEST DATE FIRST TEST  
CAS. PRES. BHP LAST TEST  
TUB. PRES. 1,145 BHP CHANGE  
ELEV. FLUID TOP  
DATUM WATER TOP  
TEMP 102 RUN BY B.J. CATHEY  
CLOCK NO.  
ELEMENT NO. RPG3# 43798, 0-7,000 LB. RANGE

DEPTH	PRESSURE	GRADIENT
0	1,145	
1,000	1,186	4.1
2,000	1,220	3.4
3,000	1,256	3.6
4,000	1,292	3.6
5,000	1,329	3.7
5,134	1,343	10.4

OCC Case 6919

Exhibit 10(b)



## BENNETT WIRE LINE SERVICE

P. O. BOX 787  
 ARTESIA, NEW MEXICO 88210  
 Phone 746-3281

MATT LEE

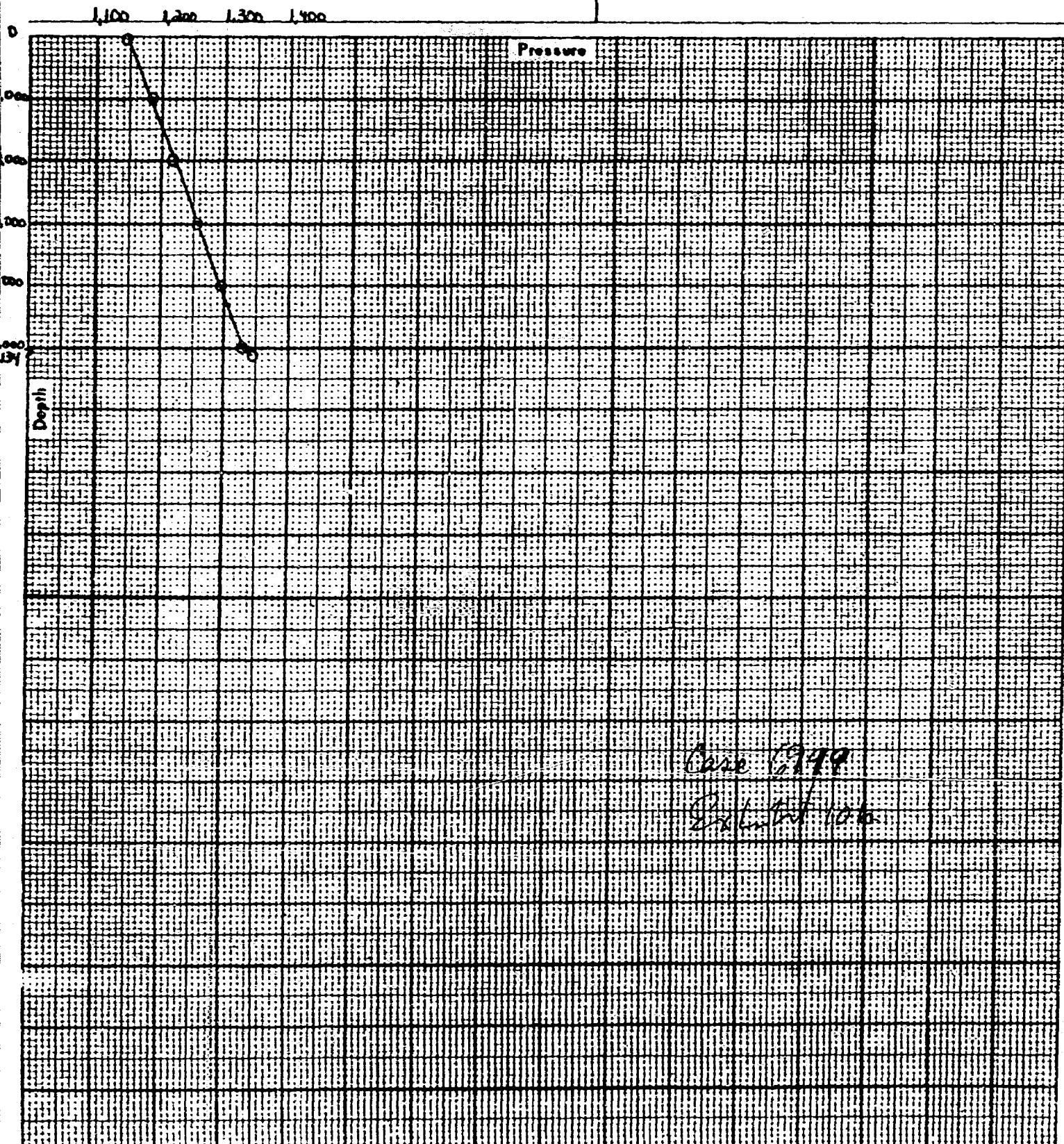
## BOTTOM HOLE PRESSURE SURVEY REPORT

OPERATOR YATES PETROLEUM CORP  
 LEASE ANDERSON STATE "CS"  
 WELL NO. # 1-Y  
 FIELD WOLF CAMP  
 DATE 6-12-80 TIME 1200  
 STATUS SHUT IN TEST DEPTH 5,134  
 TIME S.I. LAST TEST DATE FIRST TEST  
 CAS. PRES. BHP LAST TEST  
 TUB. PRES. 1,145 BHP CHANGE  
 ELEV. FLUID TOP  
 DATUM WATER TOP  
 TEMP 102 RUN BY B.J. CATHEY  
 CLOCK NO. GAUGE NO.  
 ELEMENT NO. RPG3# 43798, 0-7,000 LB. RANGE

DEPTH	PRESSURE	GRADIENT
0	1,145	
1,000	1,186	4.1
2,000	1,220	3.4
3,000	1,256	3.6
4,000	1,292	3.6
5,000	1,329	3.7
5,134	1,343	10.4

OCC Case 6919

Exhibit 10(b)



## BENNETT WIRE LINE SERVICE

P.O. BOX 787  
ARTESIA, NEW MEXICO 88210  
Phone 748-3281

MATT LEE

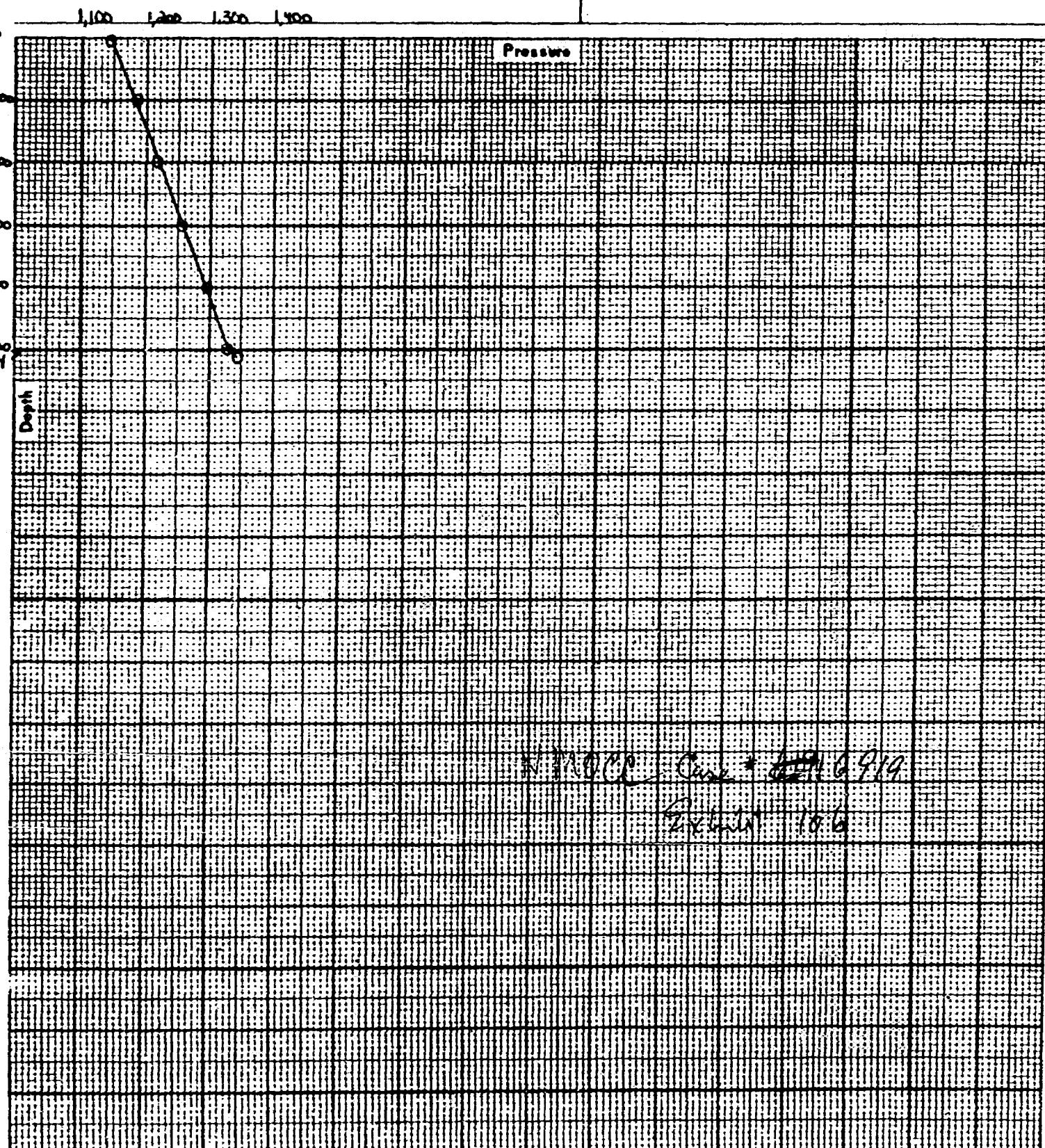
## BOTTOM HOLE PRESSURE SURVEY REPORT

OPERATOR YATES PETROLEUM CORP  
LEASE ANDERSON STATE "CS"  
WELL NO. # 1-Y  
FIELD WOLF CAMP  
DATE 6-12-80 TIME 1200  
  
STATUS SHUT IN TEST DEPTH 5,134  
TIME S.I. LAST TEST DATE FIRST TEST  
CAS. PRES. BHP LAST TEST  
TUB. PRES. 1,145 BHP CHANGE  
ELEV. FLUID TOP  
DATUM WATER TOP  
TEMP 102 RUN BY B.J. CATHEY  
CLOCK NO. GAUGE NO.  
ELEMENT NO. RPG3# 43798, 0-7,000 LB. RANGE

DEPTH	PRESSURE	GRADIENT
0	1,145	
1,000	1,186	4.1
2,000	1,220	3.4
3,000	1,256	3.6
4,000	1,292	3.6
5,000	1,329	3.7
5,134	1,343	10.4

OCC Case 6919

Exhibit 10(b)





Case No. 6919  
N.M. Oil Conservation Div.  
Examiner Hearing of 6/4/80  
Yates Petroleum Corporation  
Exhibit No. 1

Yates Pet.	6-1-80	Gulf	22556	U.S.	Yates Pet.	6-1-80	Gulf	22556	U.S.	Yates Pet.	6-1-80	Gulf	22556	U.S.	Yates Pet.	6-1-80	Gulf	22556	U.S.	Yates Pet.	6-1-80	Gulf	22556	U.S.
(No Nat. Gas) Gulf 6-1-80 U.S.		(No Nat. Gas)	22556	U.S.	(No Nat. Gas)	6-1-80	Yates Pet.	6-1-80	U.S.	(No Nat. Gas)	6-1-80	Yates Pet.	6-1-80	U.S.	(No Nat. Gas)	6-1-80	Yates Pet.	6-1-80	U.S.	(No Nat. Gas)	6-1-80	Yates Pet.	6-1-80	U.S.
Amoco	6-1-80	Arco	22556	U.S.	Amoco	6-1-80	Arco	22556	U.S.	Amoco	6-1-80	Arco	22556	U.S.	Amoco	6-1-80	Arco	22556	U.S.	Amoco	6-1-80	Arco	22556	U.S.
Yates Pet.	6-1-80	Arco	22556	U.S.	Yates Pet.	6-1-80	Arco	22556	U.S.	Yates Pet.	6-1-80	Arco	22556	U.S.	Yates Pet.	6-1-80	Arco	22556	U.S.	Yates Pet.	6-1-80	Arco	22556	U.S.
Yates Pet.	6-1-80	Arco	22556	U.S.	Yates Pet.	6-1-80	Arco	22556	U.S.	Yates Pet.	6-1-80	Arco	22556	U.S.	Yates Pet.	6-1-80	Arco	22556	U.S.	Yates Pet.	6-1-80	Arco	22556	U.S.

ANDERSON STATE "CS" No 1Y  
1980.FNL 1800.FRL Sec 14, T. 10S, R. 24E.  
Eddy County, New Mexico

Elevation: 3686' GR

Spudded: 3-15-68

Completed: 9-26-79 (Wolfcamp)  
6-10-68 (Cisco)

Top of San Andres @ 620'  
Base of Artesian Water Zone

Procedure: To commence, pull pkr @ 4951'  
and RRP @ 6300', extend tubing w/  
sliding sleeve open and pkr set per  
at about 6300', produce Wolfcamp  
and Penn thru tubing.

Wolfcamp @ 5047'

Wolfcamp pay. Gas - 750 mcf/d  
Fl. 30.5# on 3/8" w/c

Cisco @ 6240' (RRP @ 6300')

Cisco pay. Gas - 703 mcf/d  
Fl. 31.0# on 3/8" w/c

CANYON @ 7150'

17 $\frac{1}{2}$ " hole to 576'  
+ 3 $\frac{3}{8}$ " 48° csg set @ 428', cemented  
to surface w/ 945.5x.

11" hole to 1560'  
8 $\frac{1}{2}$ " 24° J55 csg. set @ 1552', cemented  
to surface w/ 1400.5x.

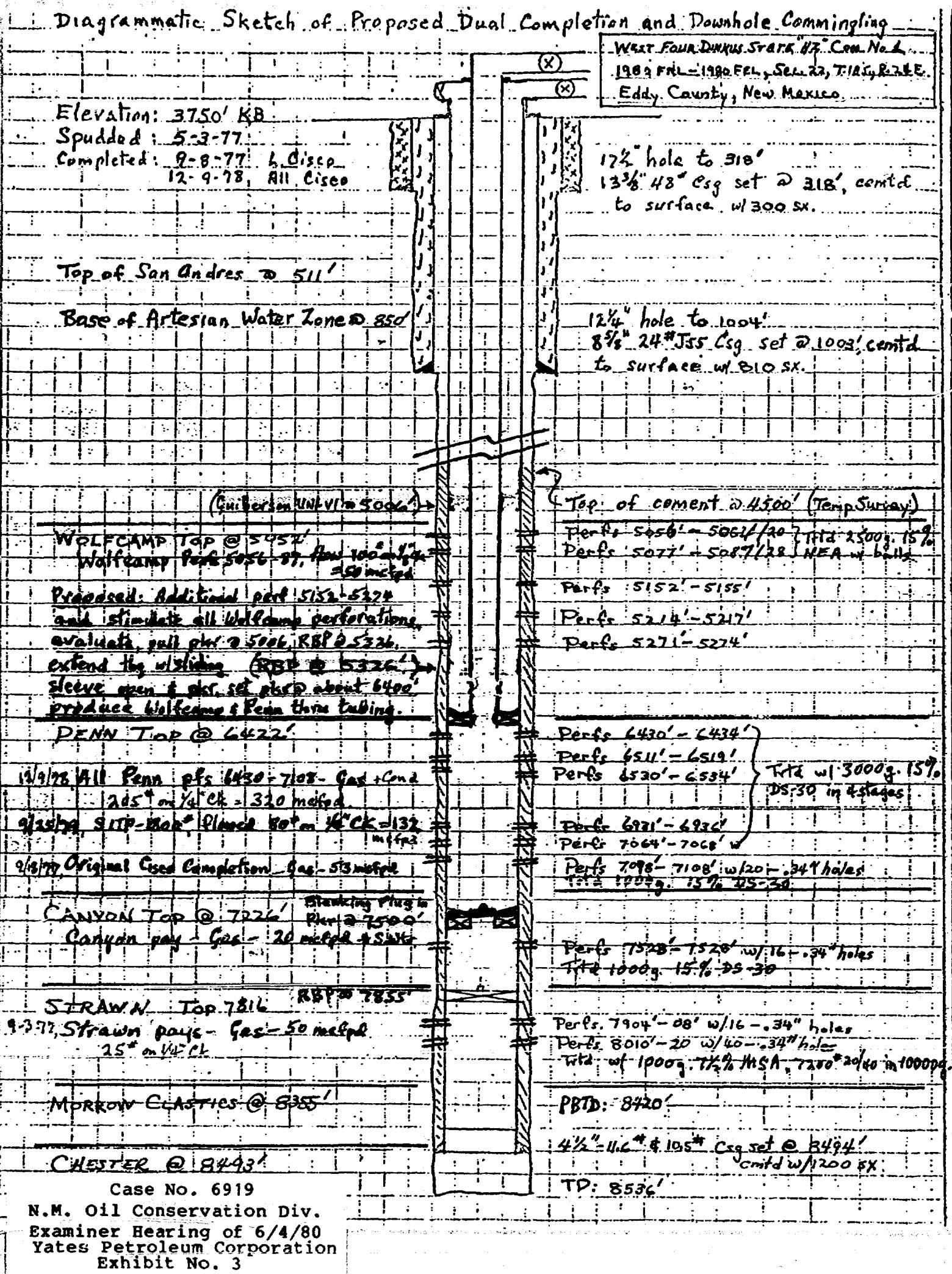
Top of Cement @ 4390' (Temp Survey)

Perf 5051'- 3218' (15 shots) - 32" holes  
Trd. w/ 2000g, 15% NFA

Perf 6351'- 6388' Trd 2000g, + 5% HCl  
+ 4000g - 28% HCl + 1200g, 3%  
4 $\frac{1}{2}$ " H.6 lb/ft casing @ 6508' cemented  
w/ 550.5x

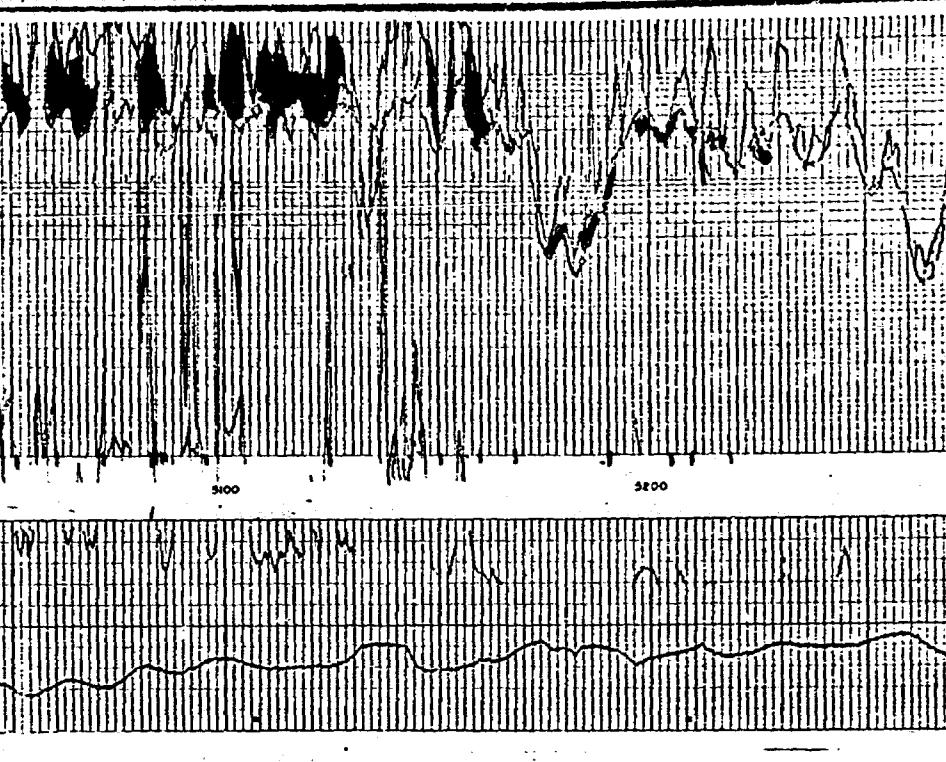
TD: 7160'

Case No. 6919  
N.M. Oil Conservation Div.  
Examiner Hearing of 6/4/80  
Yates Petroleum Corporation  
Exhibit No. 2



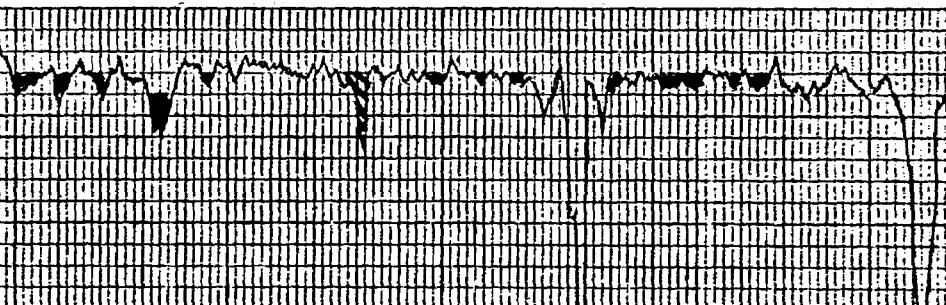
**LANE - SWEEZ** Dual Induction  
Printed Log

FILE NO. 1  
 COMPANY Marathon Oil Co.  
 WELL Anderson State Well No. 1  
 FIELD WIC  
 COUNTY Eddy STATE New Mexico  
 LOCATION 18-18-18  
 SEC. 18 Twp. 18 Range 24  
 Permanent Datum GL  
 Bed measured from 1.0 ft. above Permanent Datum  
 Depth measured from 1.0 ft.  
 Date 4-16-68  
 Log No. 048  
 Driller 7160  
 Depth-logger 7160  
 Sonic loggers Interval  
 Log loggers Interval  
 Densiloggers Interval  
 Logs loggers Interval  
 Acq. Site  
 Tape Read in Hole  
 Density and Viscosity  
 Ht and Fluid Loss  
 Source of Sample  
 Water Meas. Temp.  
 Salt Water Temp.  
 Gas Meas. Temp.  
 Source of Salt and Gas  
 Gas in BH  
 Core Sample Cut.  
 Core Ret. Temp. Deg F  
 Cored by  
 Cored By

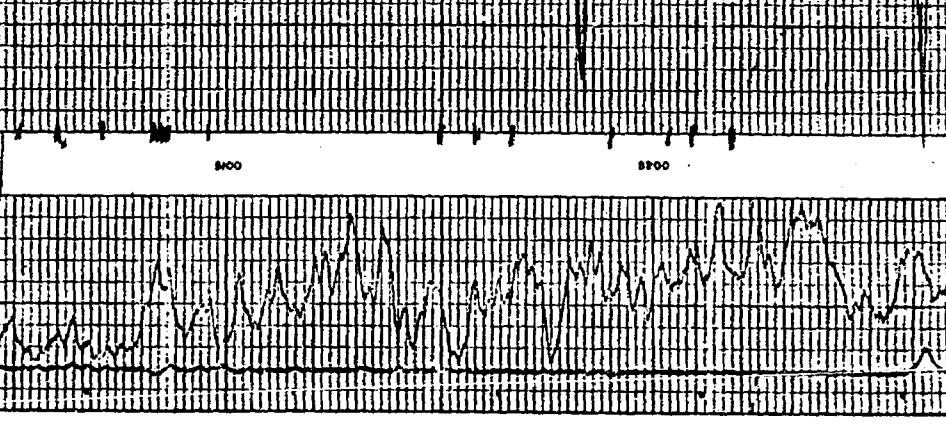


**LANE - SWEEZ** Densilog

FILE NO. 1  
 COMPANY Marathon Oil Co.  
 WELL Anderson State No. 1 "Y"  
 FIELD WIC  
 COUNTY Eddy STATE New Mexico  
 LOCATION 18-18-18  
 SEC. 18 Twp. 18 Range 24  
 Permanent Datum GL  
 Bed measured from 0 ft. above Permanent Datum  
 Depth measured from 0 ft.  
 Date 4-16-68  
 Log No. 048  
 Driller 7160  
 Depth-logger 7160  
 Sonic loggers Interval  
 Log loggers Interval  
 Densiloggers Interval  
 Logs loggers Interval  
 Acq. Site  
 Tape Read in Hole  
 Density and Viscosity  
 Ht and Fluid Loss  
 Source of Sample  
 Water Meas. Temp.  
 Salt Water Temp.  
 Gas Meas. Temp.  
 Source of Salt and Gas  
 Gas in BH  
 Core Sample Cut.  
 Core Ret. Temp. Deg F  
 Cored by  
 Cored By



Bore Hole Record  
 File No. 1  
 Log No. 048  
 Date 4-16-68  
 Depth 7160  
 Interval 1800 ft.  
 Log Type Log  
 Acq. Site  
 Tape Log  
 Log Type Log  
 Log Date 4-16-68  
 Log Depth 7160 ft.  
 Log Interval 1800 ft.  
 Log Type Log  
 Log Acq. Site  
 Log Tape Log  
 Log Log Type Log  
 Log Log Depth 7160 ft.  
 Log Log Interval 1800 ft.

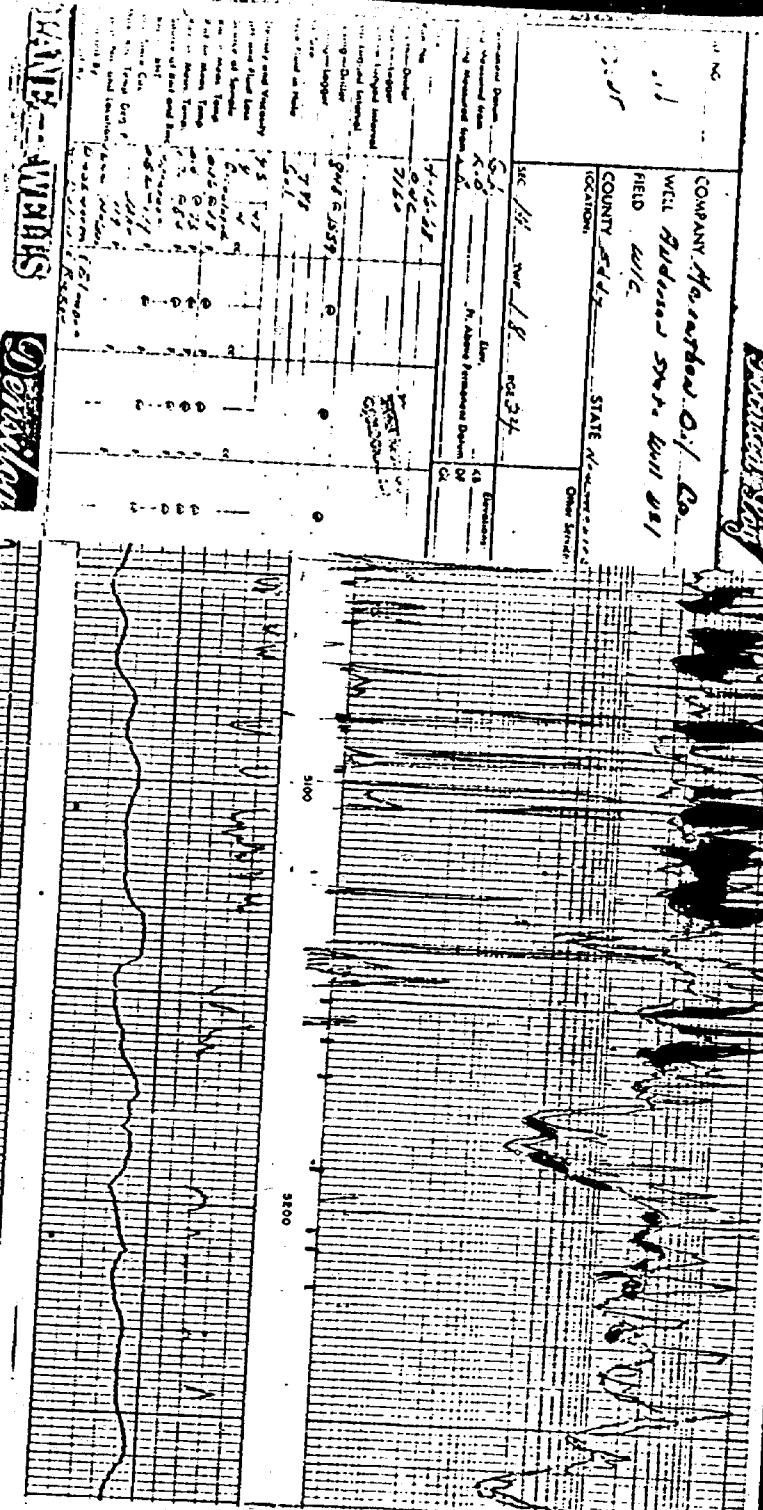


# YATES PETROLEUM CORPORATION

General Sales Office

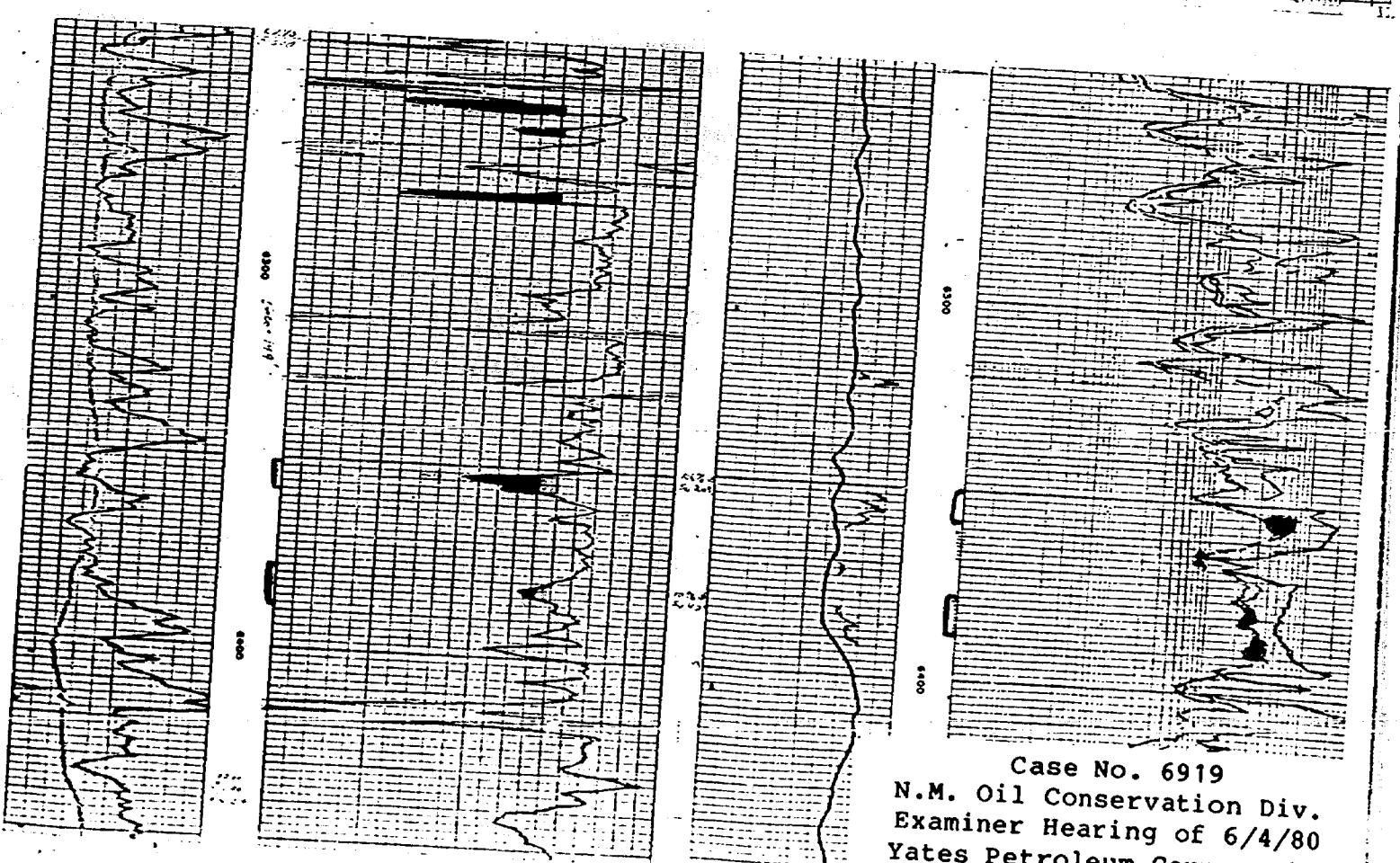
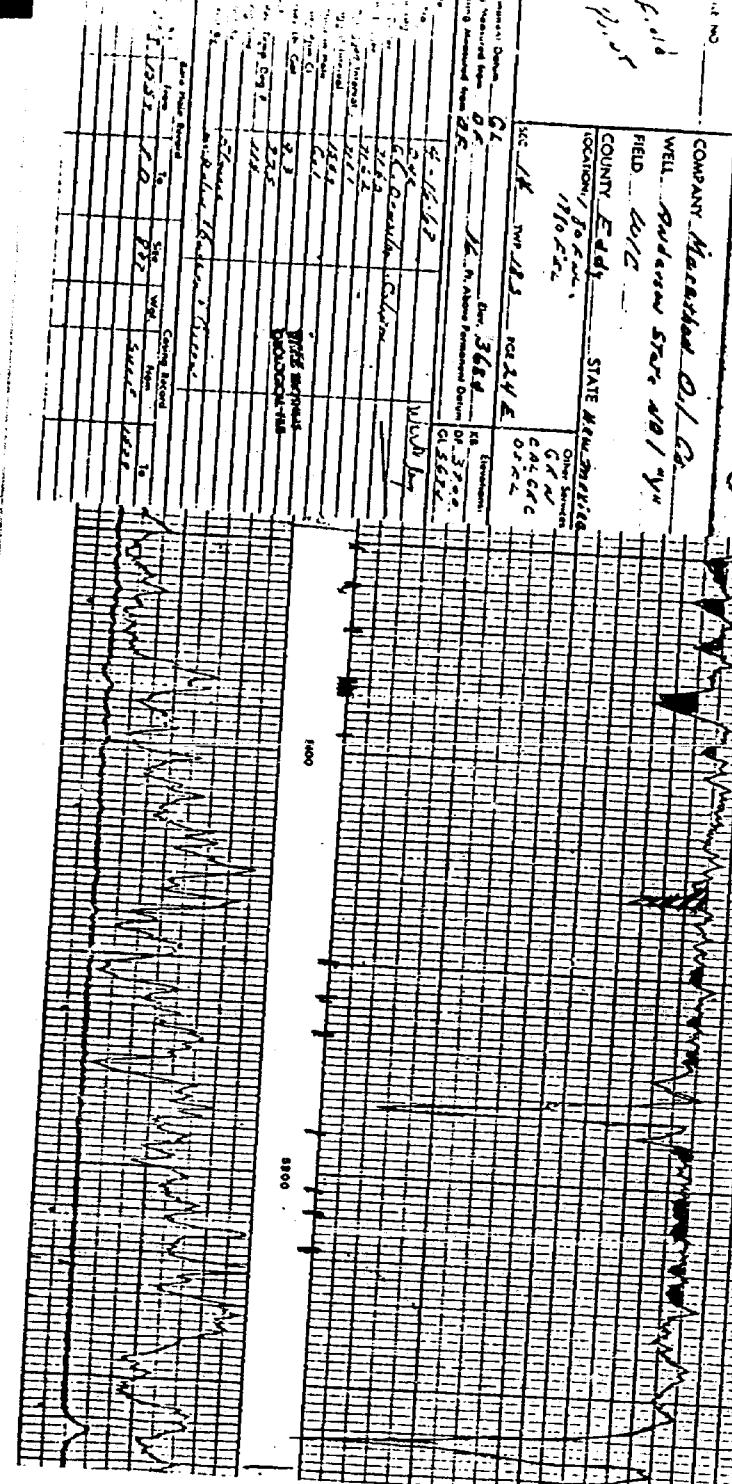
COMPANY	Harcourt Oil Co.
WELL NUMBER	Well 101
FIELD	W.C.
COUNTY	Edo.
LOCATION	State of New Mexico
SEC.	1/16
ROW	1/8
SECTION	sec. 24
SECTION LINE	SW 1/4

Other Services



## WELL NUMBERS

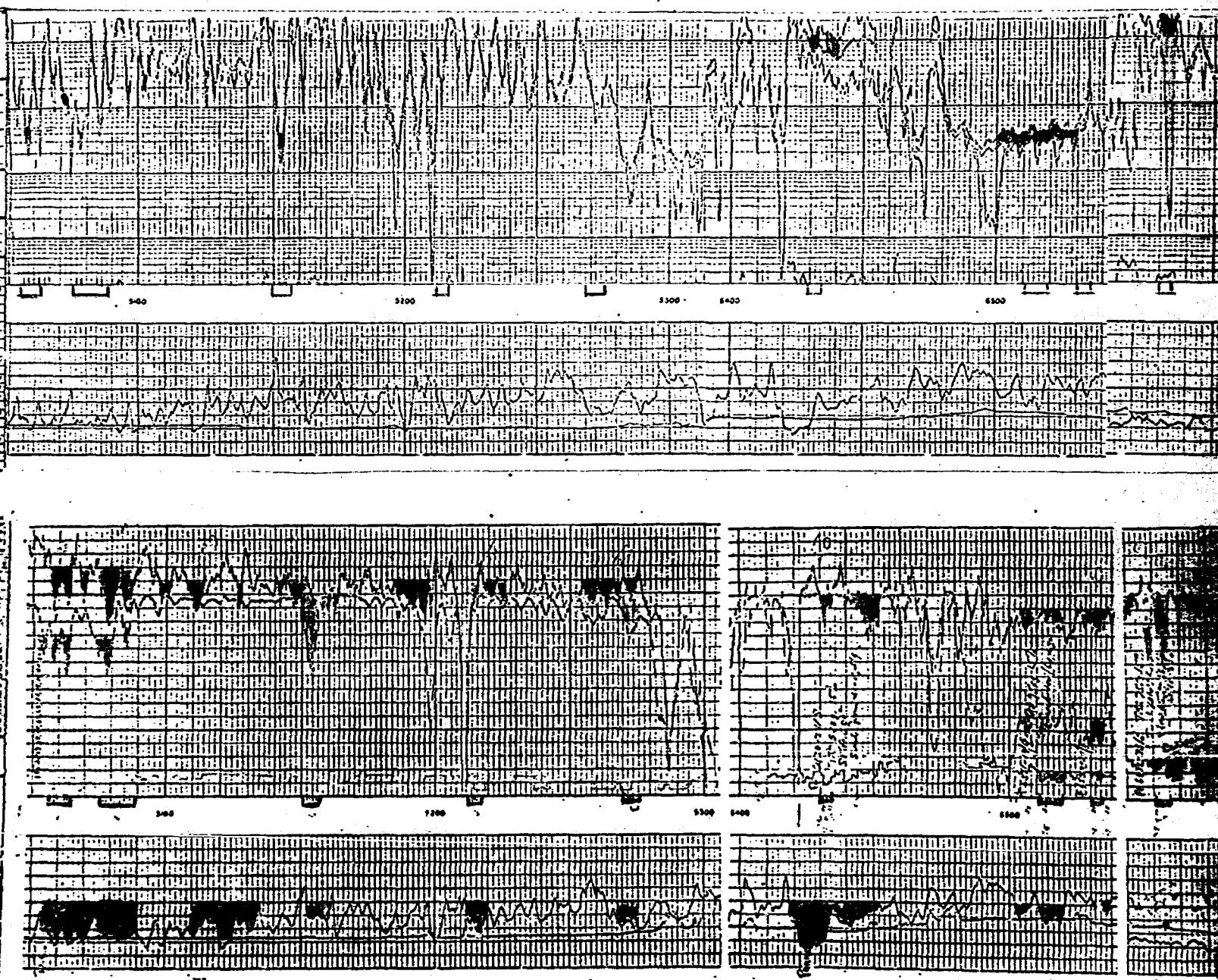
### Geophysical

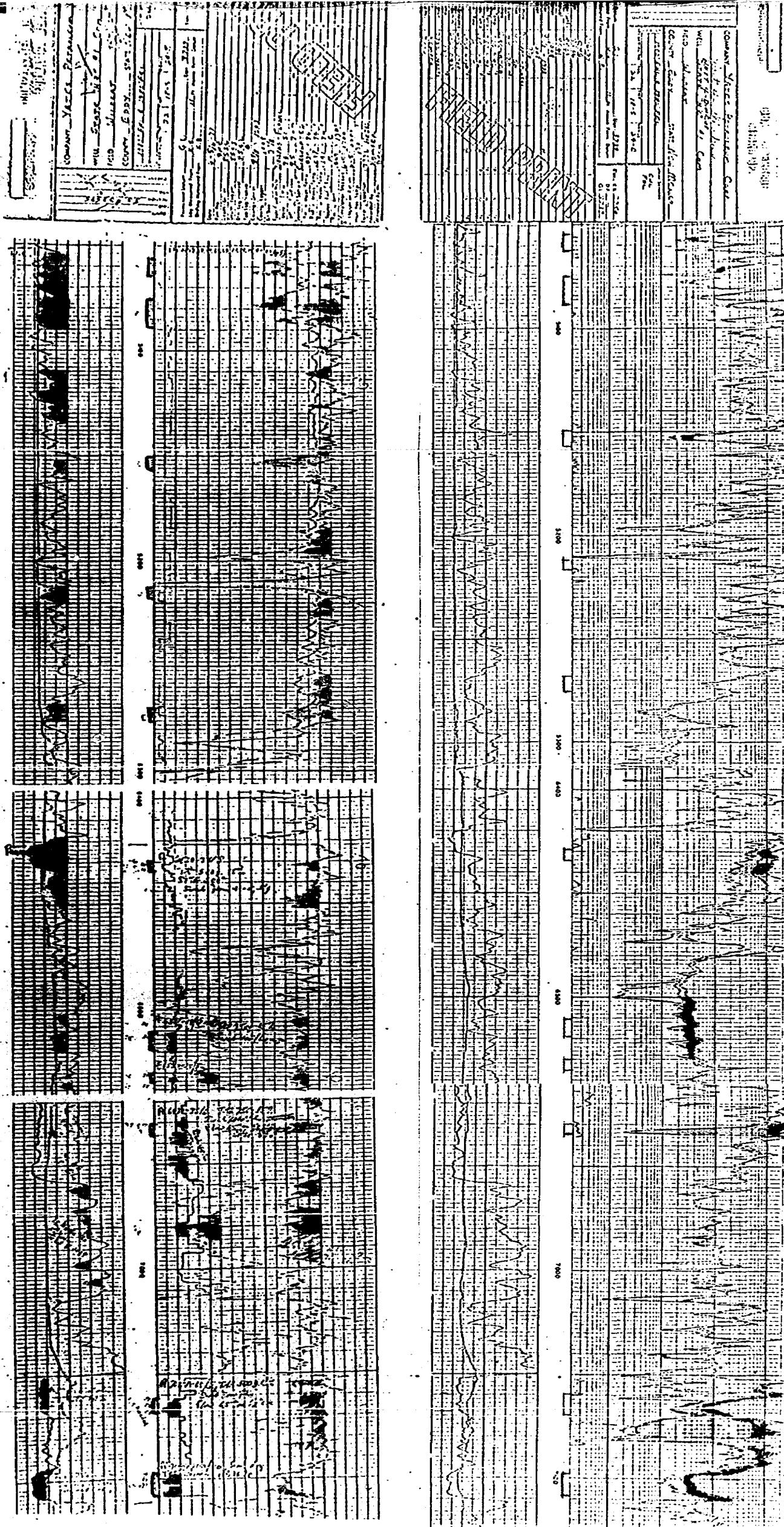


Case No. 6919  
N.M. Oil Conservation Div.  
Examiner Hearing of 6/4/80  
Yates Petroleum Corporation  
Exhibit No. 4

Portation  
on Div. •  
6/4/80

COMPANY: Yazzie Petroleum Corp.			
WELL #:	10-1-1		
WELL STATE:	NM		
FIELD:	MURRAY		
COUNTY:	EDDY	STATE:	NEW MEXICO
FURTHER PROSPECT		PREDOMINANT	
LINEAR NO:	18-8	COL:	28-6
GID:	1332	ROW:	22-14
XID:	10-1-1	DP:	01-22-12
ZID:		CL:	
		500	5200
		5400	5600
		5800	6000
		6200	6400
		6600	6800
		7000	7200
		7400	7600
		7800	8000
		8200	8400
		8600	8800
		9000	9200
		9400	9600
		9800	10000
COMPANY: YAZZIE PETROLEUM CORP.		PREDOMINANT	
LINEAR NO:	18-8	COL:	28-6
GID:	1332	ROW:	22-14
XID:	10-1-1	DP:	01-22-12
ZID:		CL:	
		500	5200
		5400	5600
		5800	6000
		6200	6400
		6600	6800
		7000	7200
		7400	7600
		7800	8000
		8200	8400
		8600	8800
		9000	9200
		9400	9600
		9800	10000





Case No. 6919  
N.M. Oil Conservation Div.  
Examiner Hearing of 6/4/80  
Yates Petroleum Corporation  
Exhibit No. 5

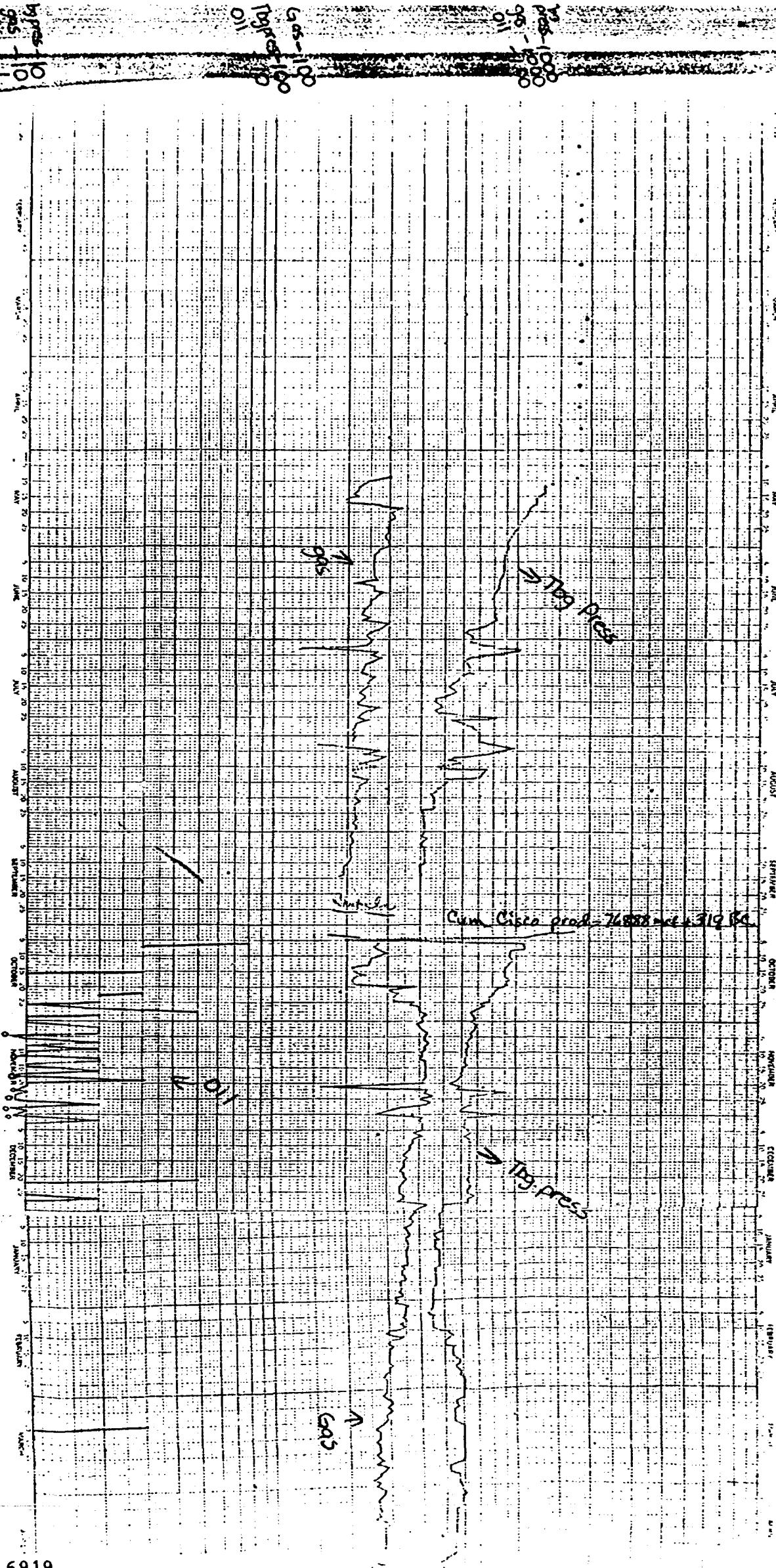
Black-Oil  
Red-Gas

ANDERSON CGS, OLY STATE  
Yates Pet. Corp.

1979

Green-Tog Prod

IV G 14-18-24 Fordlinus Cisco



Case No. 6919

N.M. Oil Conservation Div.  
Examiner Hearing of 6/4/80  
Yates Petroleum Corporation

Cum Wolfcamp prod. 70700 net + 200 BBL

Bennett Wire Line Service  
305 McArthur Ave. Ph. (505) 746-3281  
Artesia, New Mexico - 88210

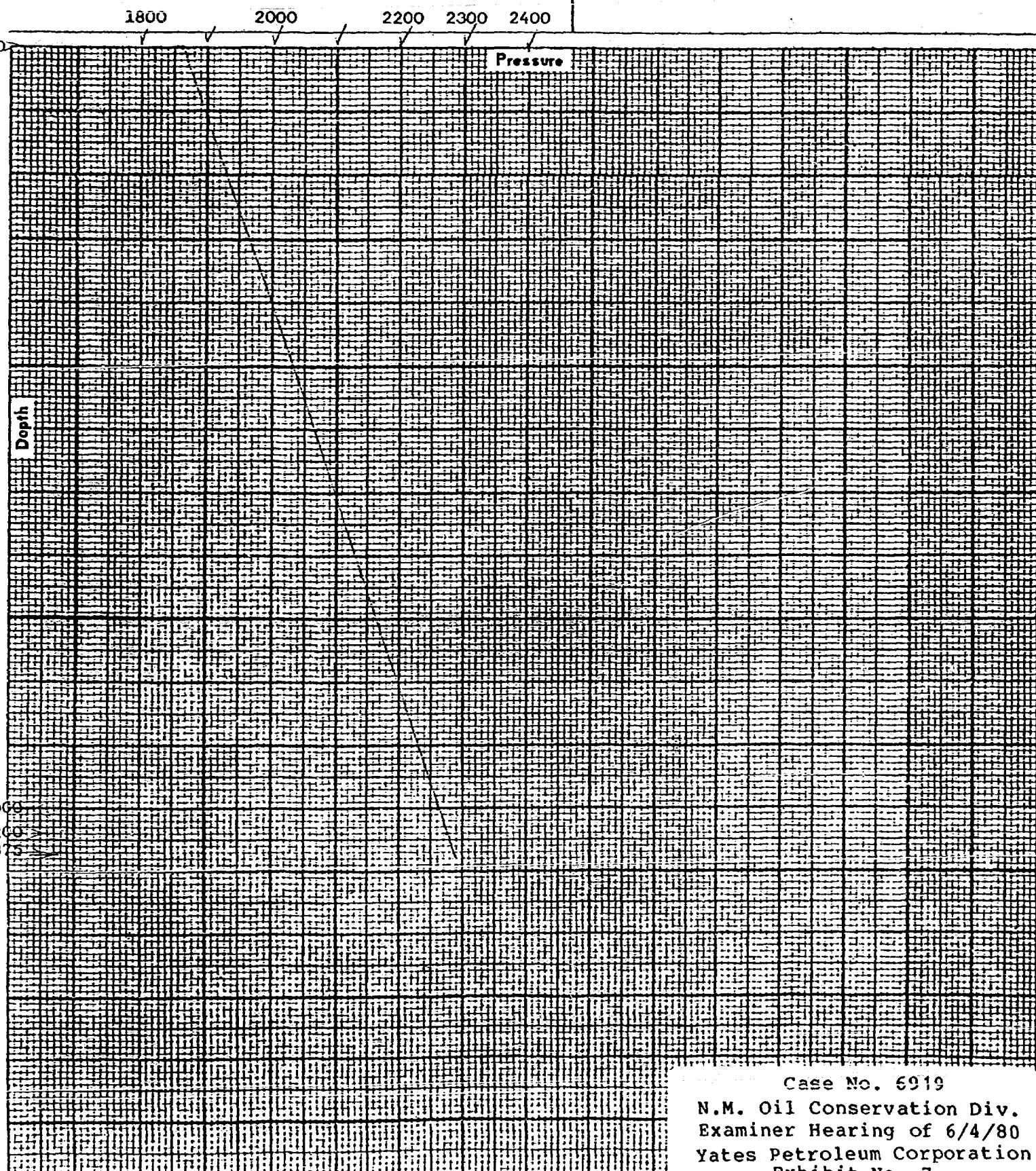
## BOTTOM HOLE PRESSURE SURVEY REPORT

OPERATOR YATES PETROLEUM CORPORATION  
LEASE Anderson State 14-185-24 E  
WELL NO. 1Y  
FIELD \_\_\_\_\_  
DATE 6/11/73 TIME 8:00 AM.  
STATUS Shut-in TEST DEPTH (Cisco) 6375 Ft.  
TIME S.I.  LAST TEST DATE   
CAS. PRES.  BHP LAST TEST   
TUB. PRES. 1861 Lbs BHP CHANGE   
ELEV.  FLUID TOP None  
DATUM  WATER TOP "  
TEMP  RUN BY E.D. Bennett  
CLOCK NO.  GAUGE NO.   
ELEMENT NO. 8567

DEPTH	PRESSURE	GRADIENT
0 Ft.	1861 Lbs.	
6000 "	2261 "	06.7
6200 "	2275 "	07.0
6375 "	2288 "	08.0

### NOTE:

DST ISIP 2295 @ 6396'  
extrapolated  
PSIP 2228 extrapol



## BENNETT WIRE LINE SERVICE

ARTESIA, N.M.  
EAST MAIN ST. 305 McArthur  
PHONE SH.6-3281

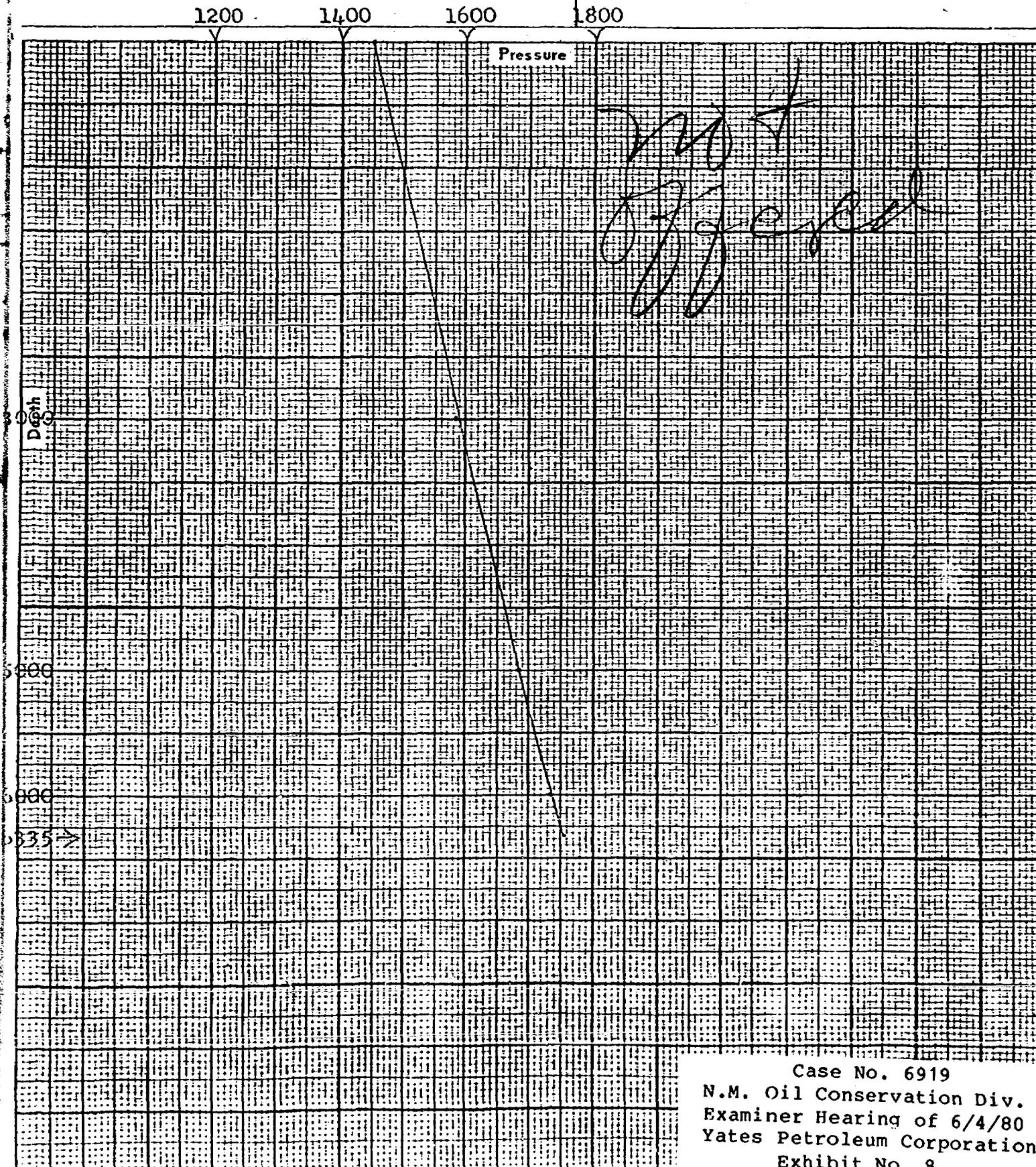
HOBBS, N.M./  
RTA/BOX 152  
PHONE EX/37-6987

## BOTTOM HOLE PRESSURE SURVEY REPORT

OPERATOR CHARLES B. READ  
LEASE ANDERSON STATE "Y'S  
WELL NO. 1-Y  
FIELD  
DATE 5/27/68 TIME 6:30 PM.  
STATUS Shut-in TEST DEPTH (Case) 6335  
TIME S.I. LAST TEST DATE  
CAS. PRES. BHP LAST TEST  
TUB. PRES. 1450 lb/bhp CHANGE  
ELEV. FLUID TOP None  
DATUM WATER TOP  
TEMP 118° RUN BY E.D. Bennett  
CLOCK NO. GAUGE NO. 381  
ELEMENT NO. 381

DEPTH	PRESSURE	GRADIENT Lbs/100'
0 Ft	1450 Lbs.	
3000 "	1583 "	04.4
5000 "	1685 "	05.1
6000 "	1736 "	05.1
6335 "	1754 "	05.3

*Withdrawn*



Case No. 6919  
N.M. Oil Conservation Div.  
Examiner Hearing of 6/4/80  
Yates Petroleum Corporation  
Exhibit No. 8



## BENNETT WIRE LINE SERVICE

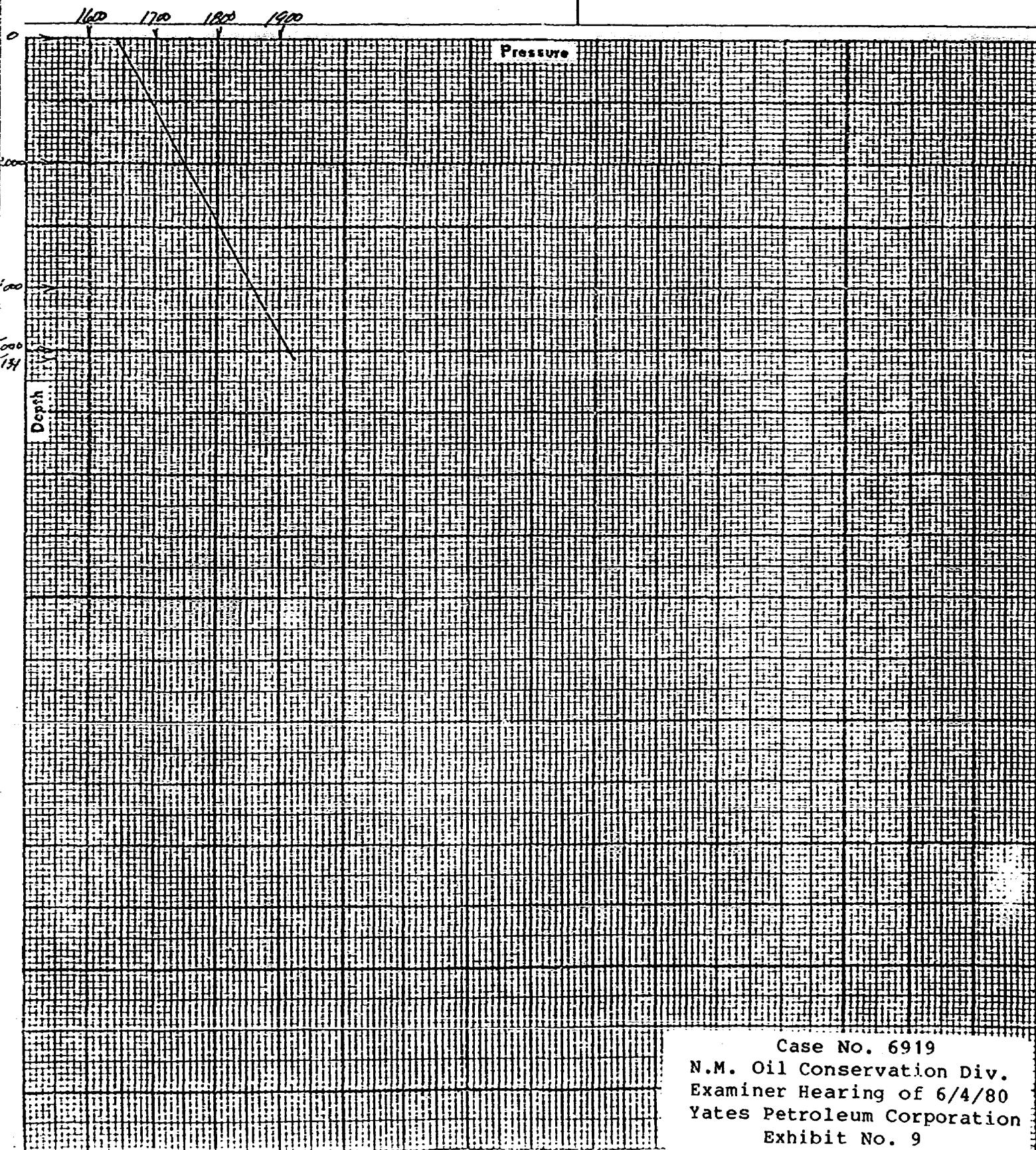
P. O. BOX 787  
ARTESIA, NEW MEXICO 88210  
Phone 746-3281



## BOTTOM HOLE PRESSURE SURVEY REPORT

OPERATOR Yates Petroleum Corp.  
LEASE Anderson State "CS"  
WELL NO. 1-Y  
FIELD   
DATE 9/27/79 TIME 6:15PM  
STATUS Shut-in TEST DEPTH 5134 Ft. Wolfcamp  
TIME S.I.  LAST TEST DATE   
CAS. PRES.  BHP LAST TEST   
TUB. PRES. 1641 Lbs BHP CHANGE   
ELEV.  FLUID TOP None  
DATUM  WATER TOP   
TEMP 100 °F RUN BY Billy Joe  
CLOCK NO.  GAUGE NO.   
ELEMENT NO. 6000

DEPTH	PRESSURE	GRADIENT
0 Ft.	1641 Lbs.	-
2000	1732	4.5
4000	1854	6.1
5000	1913	5.9
5134	1922	6.7



Case No. 6919  
N.M. Oil Conservation Div.  
Examiner Hearing of 6/4/80  
Yates Petroleum Corporation  
Exhibit No. 9





Diagram showing present or proposed well completion with various formations

Elevation: 3686' GR

Spudded: 3-15-68

Completed: 9-26-79 (Wolfcamp)

6-10-88 (Cisco)

Top of San Andres @ 620'

Base of Artesian Water Zone

Proposed: To commingle, pull perf'd 4991  
and RBP @ 6300' extend tubing w/  
sliding sleeve open and place set phr  
at about 6300', produce Wolfcamp  
and Penn thru tubing

WOLF CAMP @ 5047'

Wolfcamp pay - Gas - 750 mcfpd  
IFP 305# on 3/4" 41/2"

CISCO @ 6240'

Cisco pay - Gas - 708 mcfpd  
IFP 310# on 3/4" 41/2"

CANYON @ 7150'

ANDERSON STATE "CS" No. 1Y

1980 FNL 1800 FCL Sec. 14, T. 18 S., R. 24 E.

Eddy County, New Mexico

17 $\frac{1}{2}$ " hole to 576'  
13 $\frac{1}{2}$ " 43" Csg set @ 428', comtd.  
to surface w/ 945 SX.

11" hole to 1560'  
8 $\frac{1}{2}$ " 24" JSS Csg. set @ 1559', comtd.  
to surface w/ 1400 SX.

Top of Cement @ 4390' (Temp Survey)

Perf's 5051-5218' (15 shots) - 32" holes  
Trtd w/ 2000g 15% NKA

Perf's 6351-6388' 14" 2000g 15% Mud Acid  
+ 4000g 28% HCl + 1200g 3%

4 $\frac{1}{2}$ " 11.6 lb/ft casing @ 6508' comtd.

w/ 550 SX

TD: 7160'

Case No. 6219  
N.M. Oil Conservation Div.  
Examiner Hearing of 6/4/80  
Yates Petroleum Corporation  
Exhibit No. 2

Diagrammatic Sketch of Proposed Dual Completion and Downhole Commingling

West Four Dinkus Secr. #3 Con. No. 1  
1989 FHL = 1980 FHL, Secr. 24, T18S, R2E  
Eddy County, New Mexico.

Elevation: 3750' KB  
Spudded: 5-9-77  
Completed: 9-8-77 h. Disc.  
12-9-78 All Ciscos

Top of San Andres @ 511'

Base of Artesian Water Zone @ 850'

(Guiberson Unit via 50ccd)

WOLFCAMP Top @ 505'  
Wolfcamp Perfs 5056-87, flow 1000 gpm  
= 50 mcfpd

Proposed: Additional perf 5152-5154  
and stimulate all Wolcamp perforations,  
evaluate pull over @ 5006, RRP @ 5326,  
extend the wellbore (RRP @ 5326'),  
 sleeves open & dry set for about 6400'  
produced Wolcamp & Penn thru tubing.

PENN Top @ 6422'

12/9/78 All Penn pfs 6430-7107 - Gas + Cond  
2054 m 1/4" Ch = 320 mcfpd  
9/2/79 SITP Map = Placed 804 m 1/4" Ch = 32  
mcfpd

9/1/79 Original Gas Completion Gas - 53 mcfpd

CANYON Top @ 7226' ~~existing map~~  
Canyon gas - Gas - 20 mcfpd + Silvite

STRAWN Top 7816 RRP @ 7835'  
9-3-77 Strawn pycs - Gas - 50 mcfpd  
25" on 1/4" Ch

MURKIN Castics @ 8355'

WESTER @ 8443'

Case No. 6919

N.M. Oil Conservation Div.  
Examiner Hearing of 6/4/80  
Yates Petroleum Corporation

Exhibit No. 3

17" hole to 318'  
13 3/8" 48" Csg set @ 318', comtd  
to surface w/ 300 SX.

12 1/4" hole to 1004'  
8 1/2" 24# J55 Csg. set @ 1003', comtd  
to surface w/ 300 SX.

Top of cement @ 4300' (Temp Survey)  
Perfs 5056-5064/197 1112-2500g, 15%  
Perfs 5077-5087/28 NEA w/ balls

Perfs 5152-5155

Perfs 5214-5217

Perfs 5271-5274

Perfs 6430'-6434'  
Perfs 6511'-6514'  
Perfs 6530'-6534'

Ttd w/ 3000g, 15%  
DS-30 in 4 stages

Perf 6971-6976

Perf 7064-7068 w

Perfs 7078-7108 w/ 20+ .34" holes  
Total 1000g, 15% DS-30

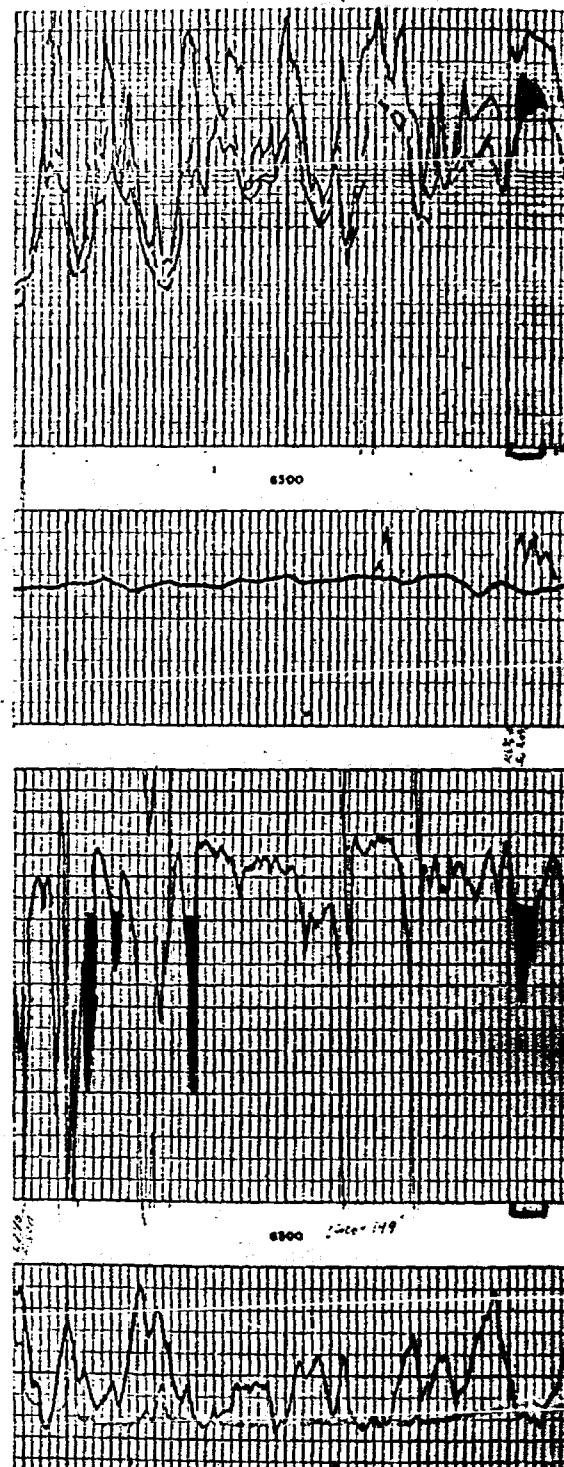
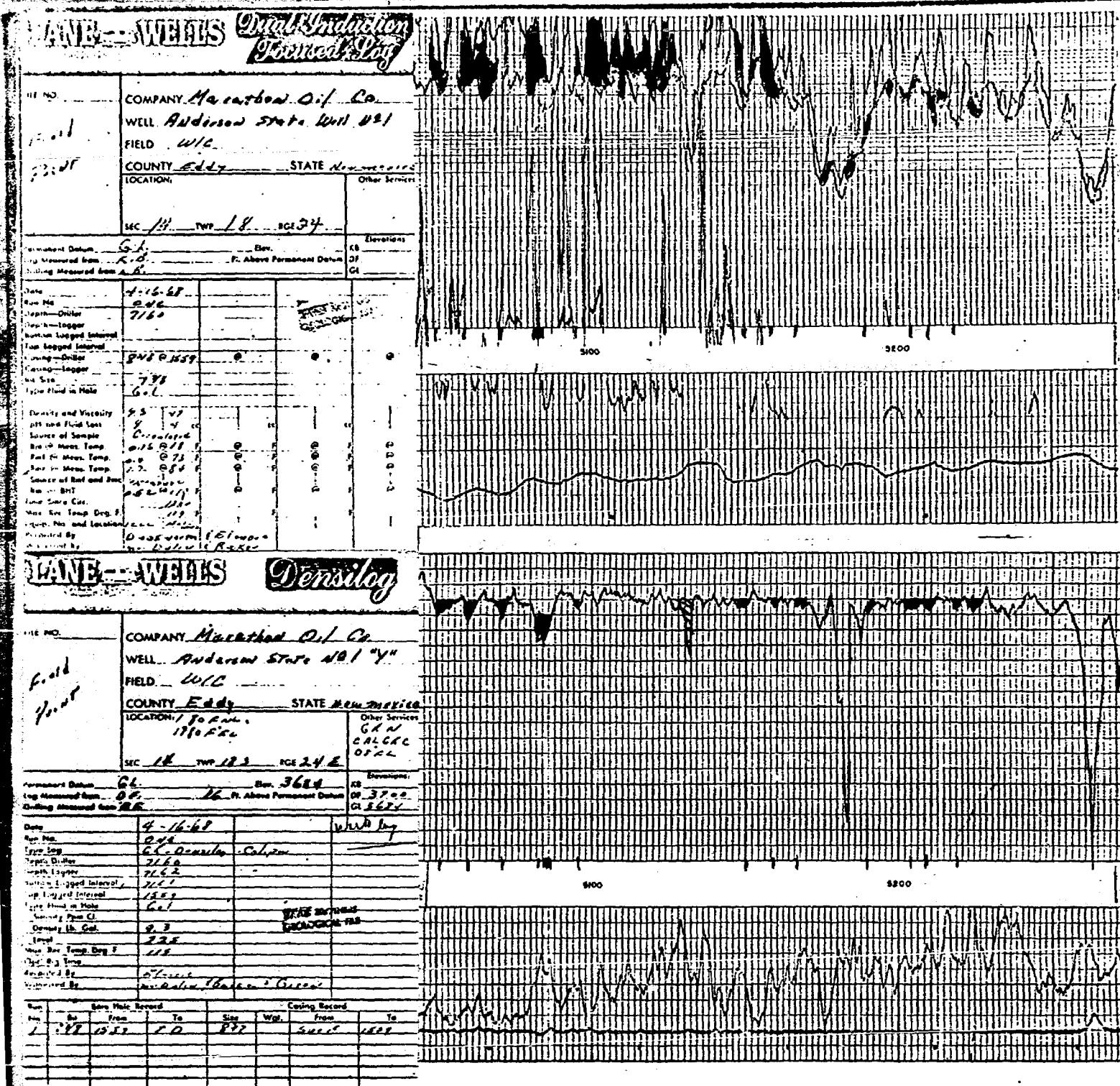
Perfs 7523-7526 w/ 16+ .34" holes  
Ttd 1000g, 15% DS-30

Perfs 7904-808 w/ 16+ .34" holes  
Perfs 8010-20 w/ 40+ .34" holes  
Ttd w/ 1000g, 15% DS-30 in 1000g

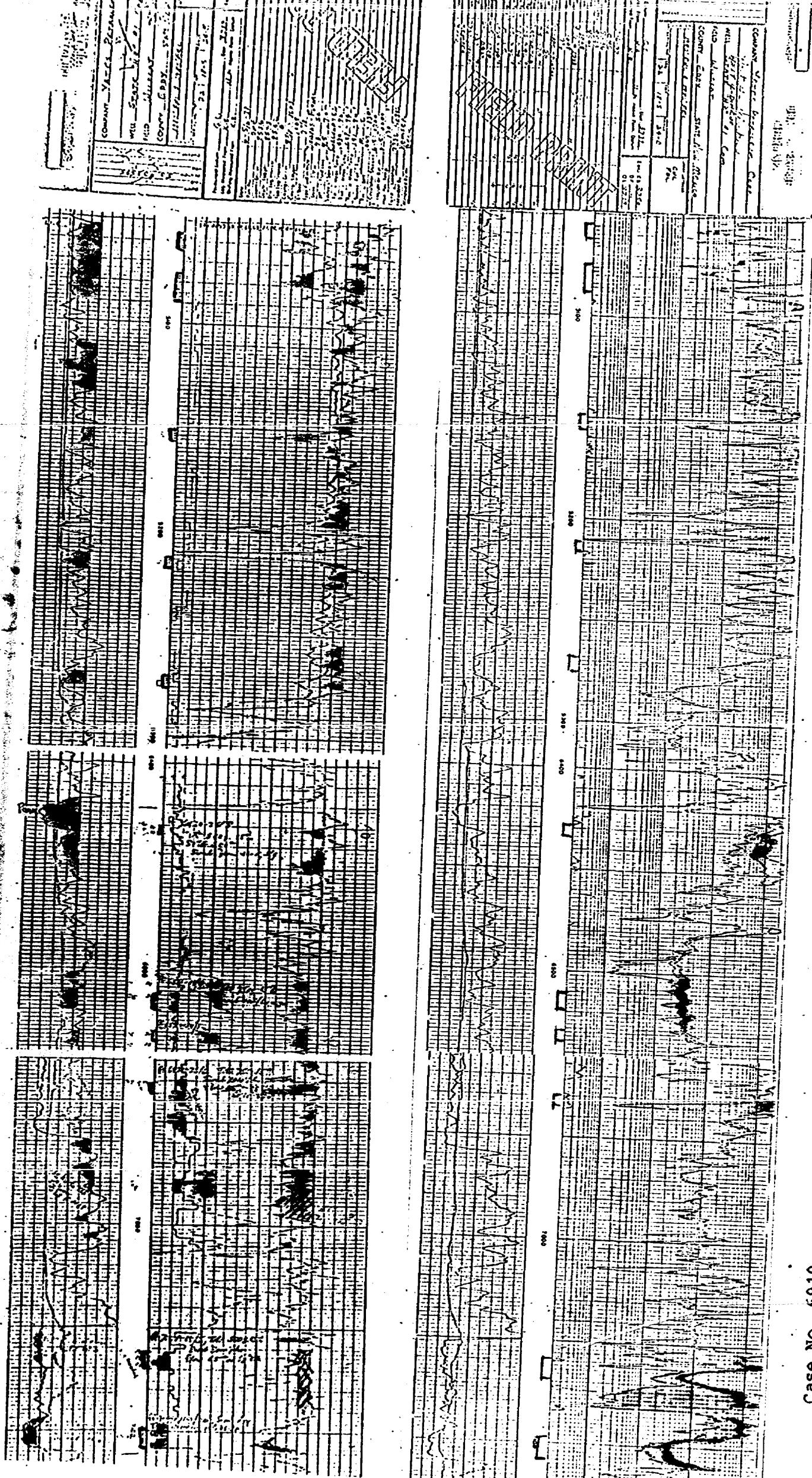
PBD: 8420'

4 1/2" 14# 105# Csg set @ 8494'  
comtd w/ 200 SX

TD: 8536'

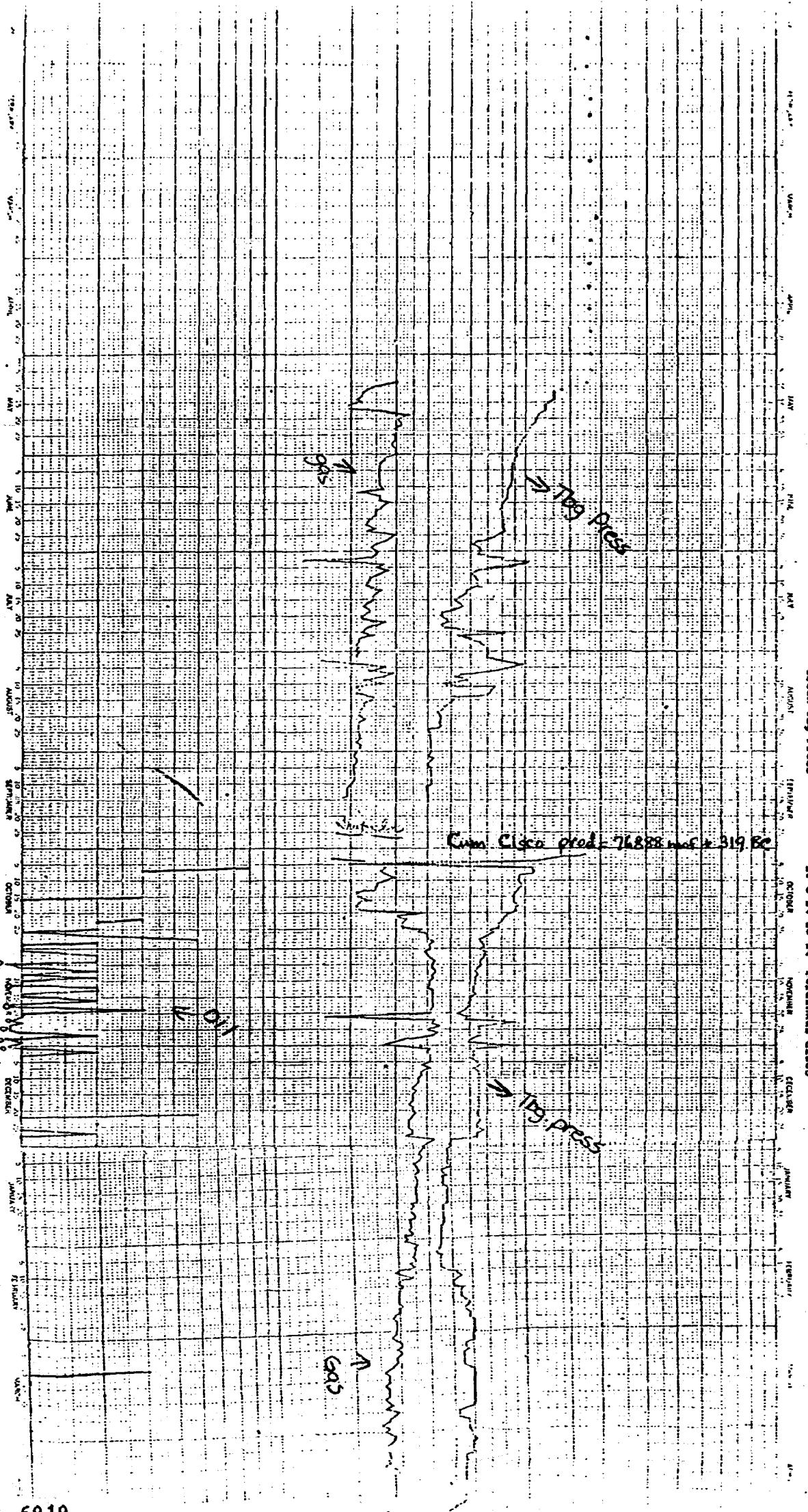






Case No. 6919  
N.M. Oil Conservation Div.  
Examiner Hearing of 6/4/80  
Yates Petroleum Corporation  
Exhibit No. 5

BLACK-OUT ANDERSON OF NEW YORK 1979  
Rod-Gas Yates Pet. Corp.  
Green-Tog Press  
IR G 14-10-24 Production Closed



Case No. 6919  
N.M. Oil Conservation Div.  
Examiner Hearing of 6/4/80  
Yates Petroleum Corporation  
Exhibit No. 6

Cum Custer prod = 76888 bbls + 319 BBL

Bennett Wire Line Service  
305 McArthur Ave. Ph. (505) 746 - 3281  
Artesia, New Mexico - 88210

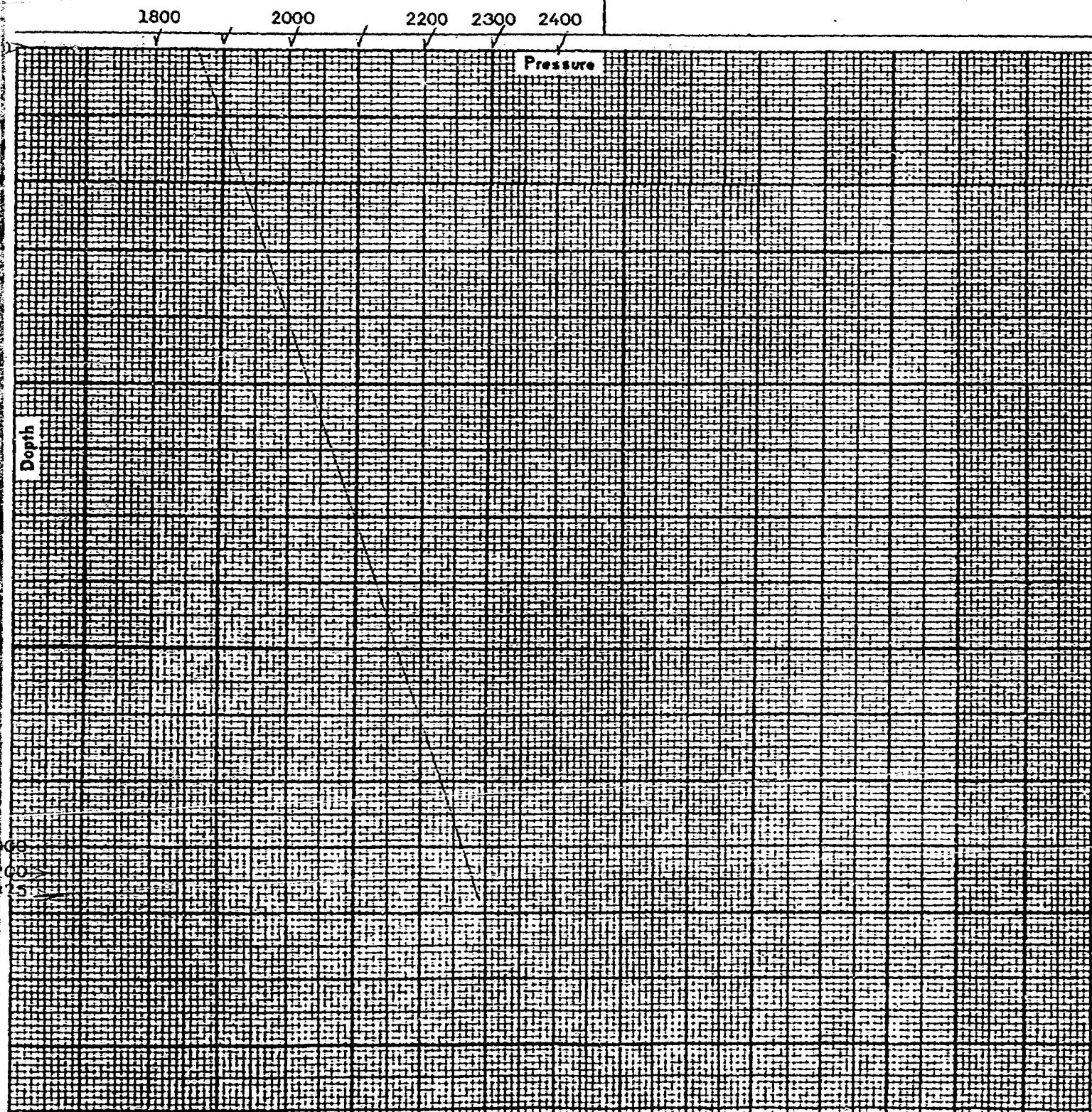
## BOTTOM HOLE PRESSURE SURVEY REPORT

OPERATOR YATES PETROLEUM CORPORATION  
LEASE Anderson State CS JU-185-24-E  
WELL NO. 1/  
FIELD  
DATE 6/11/73 TIME 8:00 AM.  
STATUS Shut-in TEST DEPTH (Cisco) 6375 Ft.  
TIME S.I. LAST TEST DATE  
CAS. PRES. BHP LAST TEST  
TUB. PRES. 1861 Lbs BHP CHANGE  
ELEV. FLUID TOP None  
DATUM WATER TOP "  
TEMP RUN BY E.D. Bennett  
CLOCK NO. GAUGE NO.  
ELEMENT NO. 8567

DEPTH	PRESSURE	GRADIENT
0 Ft.	1861 Lbs.	
6000 "	2261 "	06.7
6200 "	2275 "	07.0
6375 "	2288 "	08.0

NOTE:

DST Isip 2295 @ 6396'  
extrapolated  
FSP 2228 extrap



Case No. 6919  
N.M. Oil Conservation Div.  
Examiner Hearing of 6/4/80  
Yates Petroleum Corporation  
Exhibit No. 3

ARTESIA, N.M.  
EAST MAIN ST. 305 McArthur  
PHONE SH.6-3281

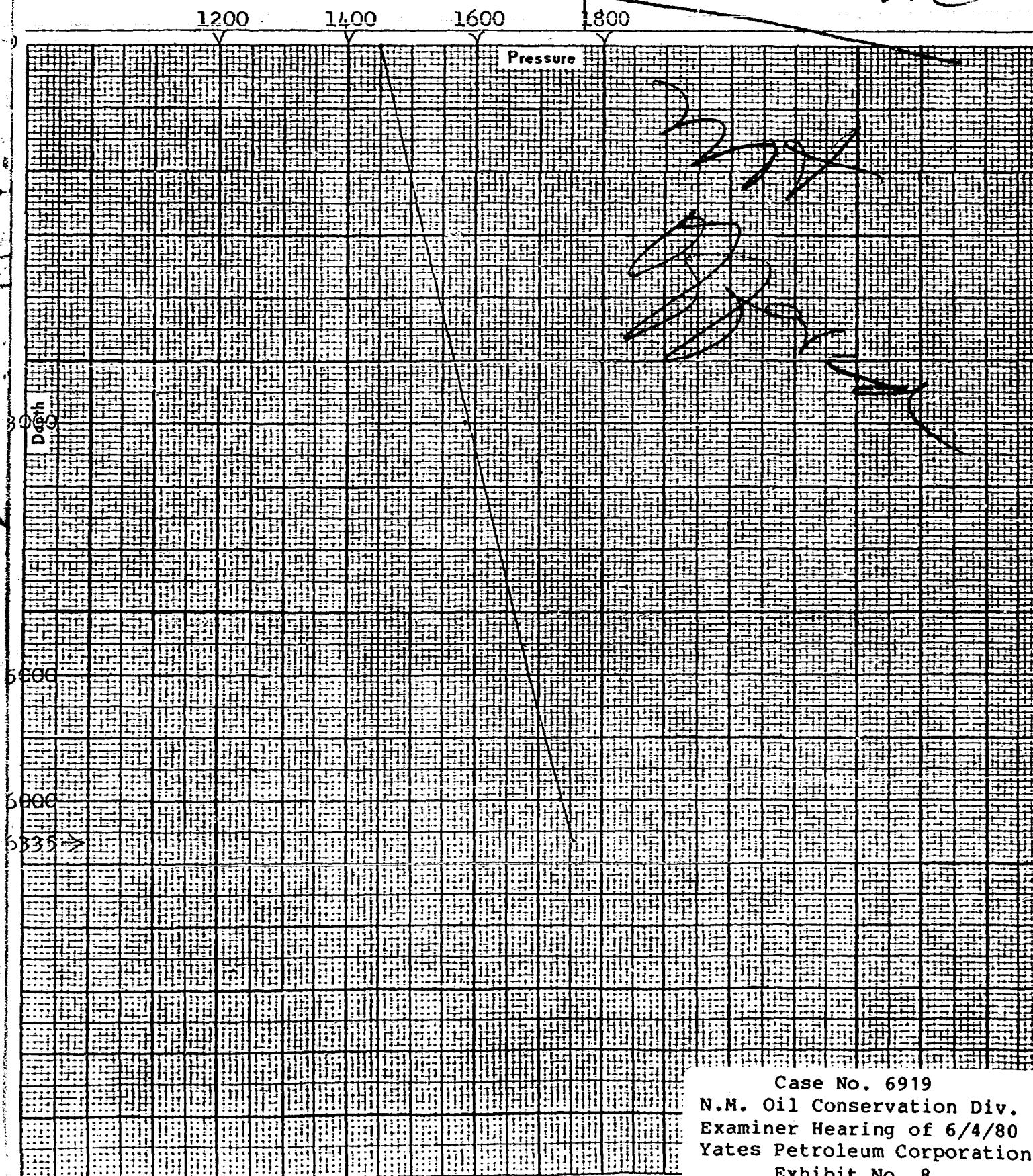
10889/NM/  
RT/A/BOX/152  
PHONE/EX/376987

## BOTTOM HOLE PRESSURE SURVEY REPORT

OPERATOR CHARLES B. READ  
LEASE ANDERSON STATE "YES"  
WELL NO. 1-Y  
FIELD  
DATE 5/27/68 TIME 6:30 PM.  
STATUS Shut-in TEST DEPTH (Case) 6335  
TIME S.I.  
LAST TEST DATE  
CAS. PRES.  
TUB. PRES. 1450 lb/bhp CHANGE  
ELEV. FLUID TOP None  
DATUM WATER TOP  
TEMP 118° RUN BY E.D. Bennett  
CLOCK NO. GAUGE NO. 381  
ELEMENT NO. 381

DEPTH	PRESSURE	GRADIENT
0 Ft	1450 Lbs.	
3000 "	1583 "	04.4
5000 "	1685 "	05.1
6000 "	1736 "	05.1
6335 "	1754 "	05.3

*Withdrawn*



Case No. 6919  
N.M. Oil Conservation Div.  
Examiner Hearing of 6/4/80  
Yates Petroleum Corporation  
Exhibit No. 8

## BENNETT WIRE LINE SERVICE

P. O. BOX 787

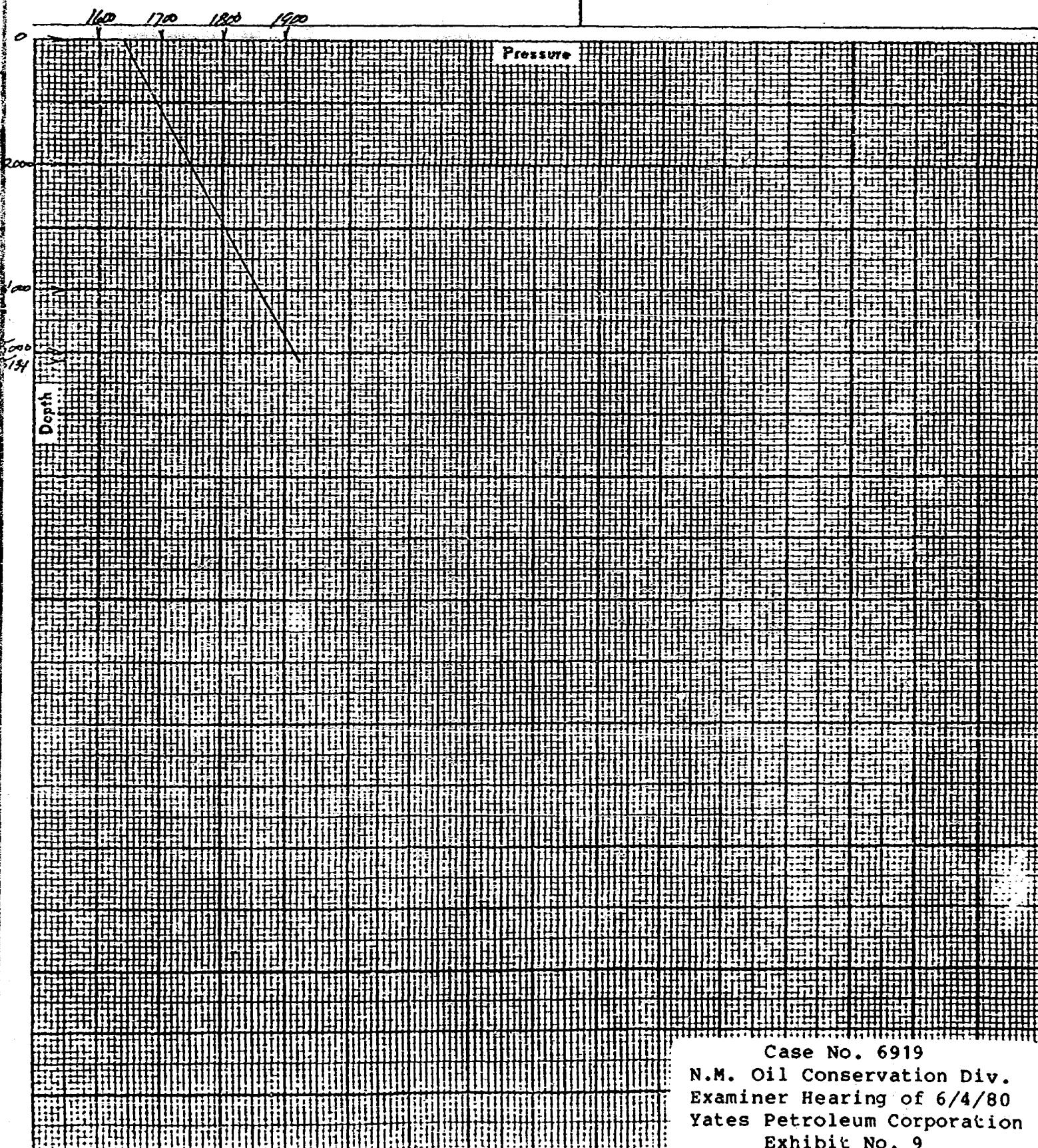
ARTESIA, NEW MEXICO 88210

Phone 746-3281

## BOTTOM HOLE PRESSURE SURVEY REPORT

OPERATOR Yates Petroleum Corp.  
 LEASE Anderson State "CS"  
 WELL NO. 1-Y  
 FIELD   
 DATE 9/27/79 TIME 6:15PM  
 STATUS Shut-in TEST DEPTH 5134 Ft. Wolfecamp  
 TIME S.I.  LAST TEST DATE   
 CAS. PRES.  BHP LAST TEST   
 TUB. PRES. 1641 Lbs BHP CHANGE   
 ELEV.  FLUID TOP None  
 DATUM  WATER TOP   
 TEMP 100 °F RUN BY Billy Joe  
 CLOCK NO.  GAUGE NO.   
 ELEMENT NO. 6000

DEPTH	PRESSURE	GRADIENT Lbs./100 Ft.
0 Ft.	1641 Lbs.	-
2000	1732	4.5
4000	1854	6.1
5000	1913	5.9
5134	1922	6.7







Elevation: 3686' GR

Spudded: 9-15-68

Completed: 9-26-79 (Wolfcamp)

6-10-69 (Cisco)

Top of San Andres @ 620'

Base of Artesian Water Zone @

Planned: To commence pull back @ 4991'  
and R.R.P. @ 6300' extend tubing w/  
sliding sleeve open and pks set after  
at about 6300', produce W-Wcamp  
which Penn thru tubing.

WOLFCAMP @ 5047'

Wolfcamp pay - Gas - 750 mcf/dl  
Fl 305# on 18/64 CT  
190,000/day nom

Cisco @ 6240'

Cisco pay - Gas - 708 mcf/dl  
Fl. 210# on 16/64 CT

100,000/day when red.

CANYON @ 7150'

ANDERSON STATE "CS" No. 1Y

1980 FNL 1800 ft Sec 14, T 10 S, R 24

Eddy County, New Mexico

17 $\frac{1}{2}$ " hole to 576'  
13 $\frac{3}{8}$ " 48" Csg set @ 428', cont'd.  
to surface w/ 945 SX.

11" hole to 1560'  
8 $\frac{7}{8}$ " 24" JSS Csg set @ 1552', cont'd.  
to surface w/ 1400 SX.

Top of Cement @ 4390' (Temp Survey)

Perf 5051-5218' (15 shots) - 32" hole  
Ttd w/ 2000g 15% NGA

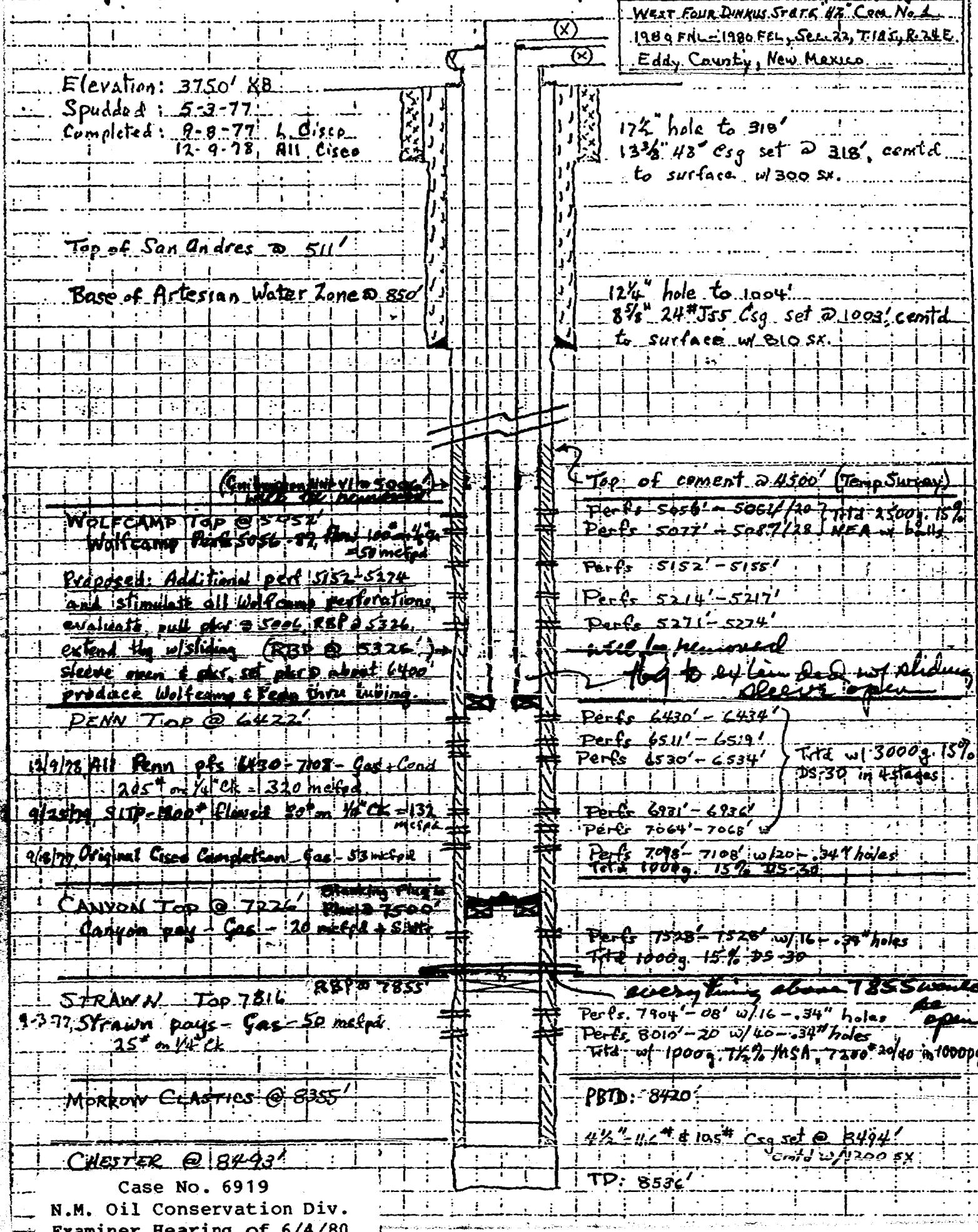
Perf 6351-6388' Ttd 2000g, 15% Maf Acid  
+ 4000g 28% HCl + 2000g 32%  
4 $\frac{1}{2}$ " 16/64 CT @ 6508' cont'd.  
w/ 550 SX

TD: 7160'

Case No. 6919  
N.M. Oil Conservation Div.  
Examiner Hearing of 6/4/80  
Yates Petroleum Corporation

Exhibit No. 2

Diagrammatic Sketch of Proposed Dual Completion and Downhole Commingling

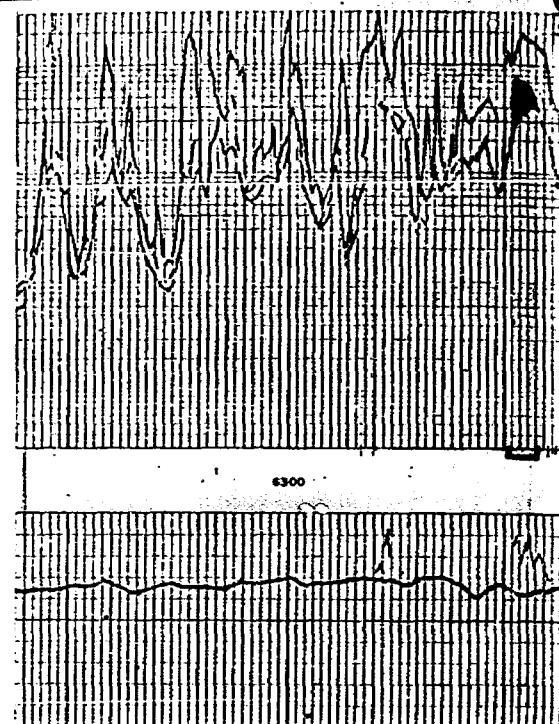
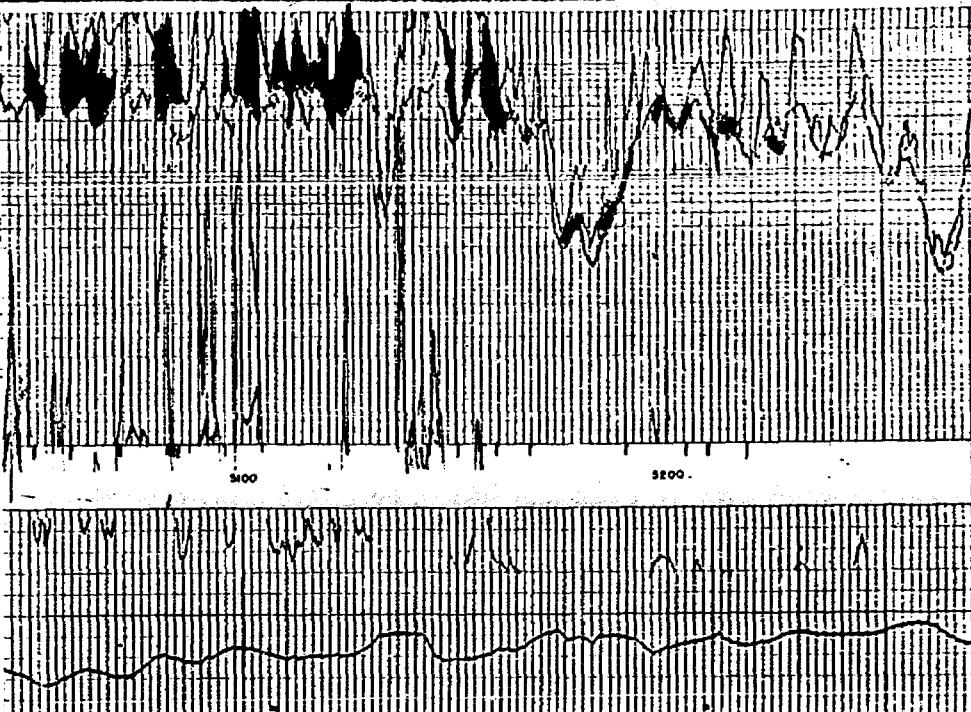


**BAE-SWEES** *Density*  
*Gamma Log*

FILE NO. *101* COMPANY *Marathon Oil Co.*  
WELL *Anderson State Well 401*  
FIELD *WIC*  
COUNTY *Eddy* STATE *New Mexico*  
LOCATION: *1/20 Fm.* Other Services  
*1910 Fm.*

SEC. *14* Twp. *18* Rge *24*  
Elevation: *6100*  
Bog Measured from: *6100* ft. Above Permanent Datum  
Bottom Measured from: *6100* ft.

Date: *4-16-68*  
Run No. *046*  
Depth—Driller *7160*  
Depth—Logger *7160*  
Bottom Logged Interval  
Top Logged Interval  
Using—Driller *8400 @ 1559*  
Using—Logger *738*  
Bit Size *6 1/2*  
Type Thread in Hole *G.C.*  
Density and Viscosity  
API and Fluid Loss  
Source of Sample  
Bottom Hole Temp.  
Bottom Hole Temp.  
Bottom Hole Temp.  
Source of Bottom Hole  
Bit in Hole  
Lower Scale Cst.  
Bottom Hole Temp. Deg. F  
Length, Min. and Location  
Prepared by  
Approved by

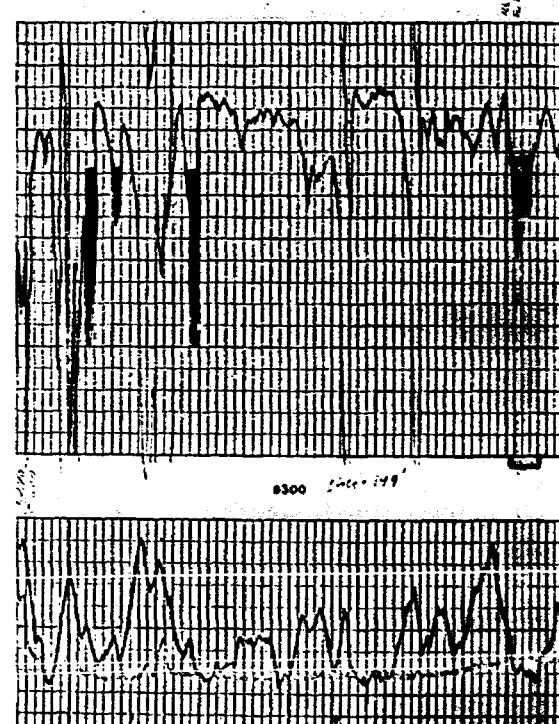


**BAE-SWEES** *Density*

FILE NO. *101* COMPANY *Marathon Oil Co.*  
WELL *Anderson State No 1 1/4"*  
FIELD *WIC*  
COUNTY *Eddy* STATE *New Mexico*  
LOCATION: *1/20 Fm.* Other Services  
*1910 Fm.*

SEC. *14* Twp. *18* Rge *24* Elevation: *6100*  
Bog Measured from: *6100* ft. Above Permanent Datum  
Bottom Measured from: *6100* ft.

Date: *4-16-68*  
Run No. *046*  
Depth—Log *6100 Density Caliper*  
Depth—Driller *7160*  
Depth—Logger *7160*  
Bottom Logged Interval  
Top Logged Interval  
Using—Caliper *1559*  
Bottom Hole *G.C.*  
Bottom Hole *8 3/8*  
Level *225*  
Bottom Hole Temp. Deg. F *118*  
Bottom Hole Temp. *118*  
Prepared by  
Approved by



**WELL NUMBER** **6919** **Oil Conservation Division**

**Exhibit No. 4**

COMPANY **Harden Oil Co.**

WELL **Harden 30A Well #1**

FIELD **W.C.**

COUNTY **Eddy**

STATE **N.M.**

LOCATION **Other**

REC'D NO. **1/11 1981**

REC'D BY **Oil Conservation Division**

REC'D DATE **1/11/81**

REC'D TIME **10:00 AM**

REC'D BY **Other**

REC'D DATE **1/11/81**

REC'D TIME **10:00 AM**

REC'D BY **Other**

REC'D DATE **1/11/81**

REC'D TIME **10:00 AM**

REC'D BY **Other**

REC'D DATE **1/11/81**

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REC'D BY **Other**

REC'D DATE **1/11/81**

REC'D TIME **10:00 AM**

REC'D BY **Other**

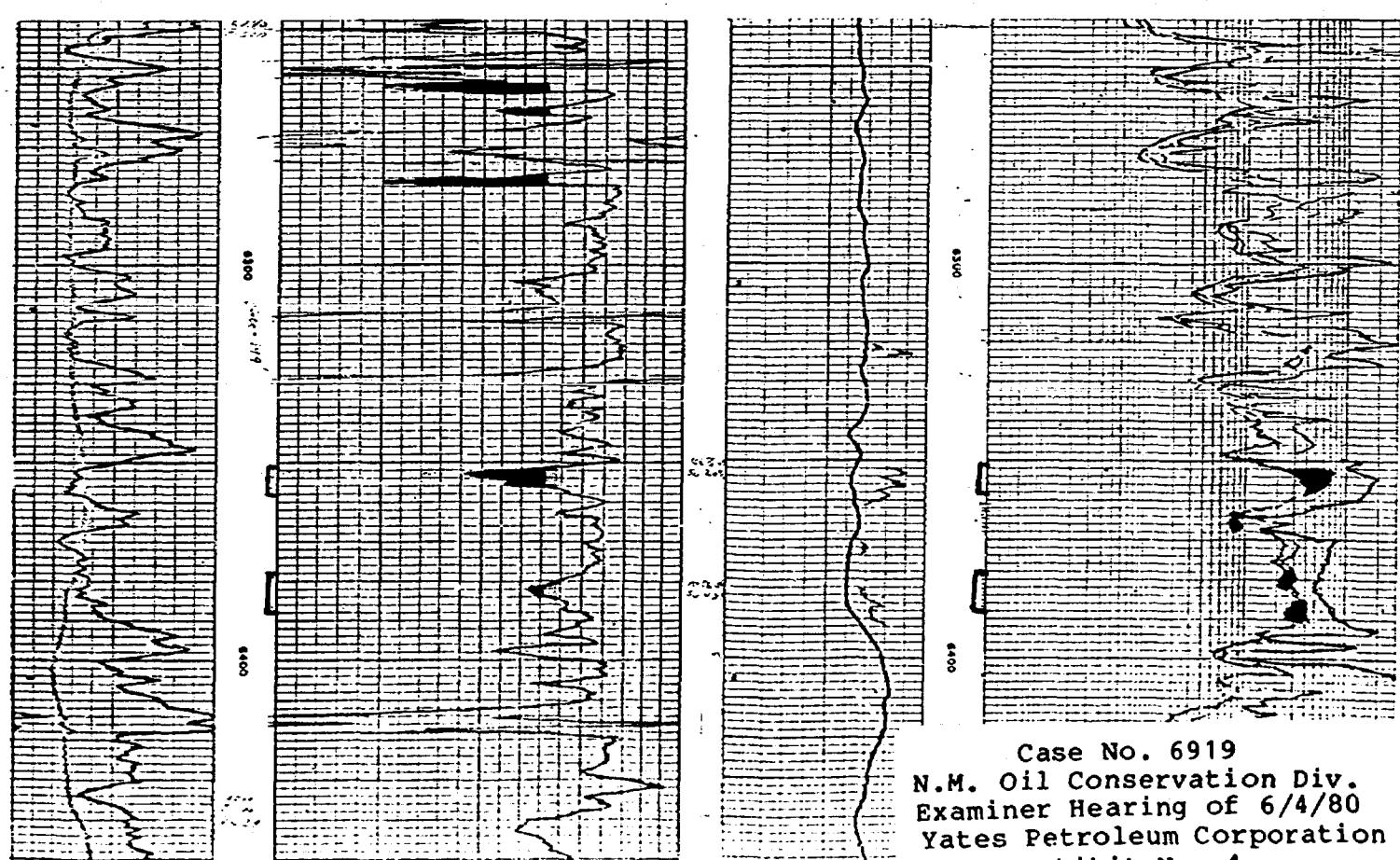
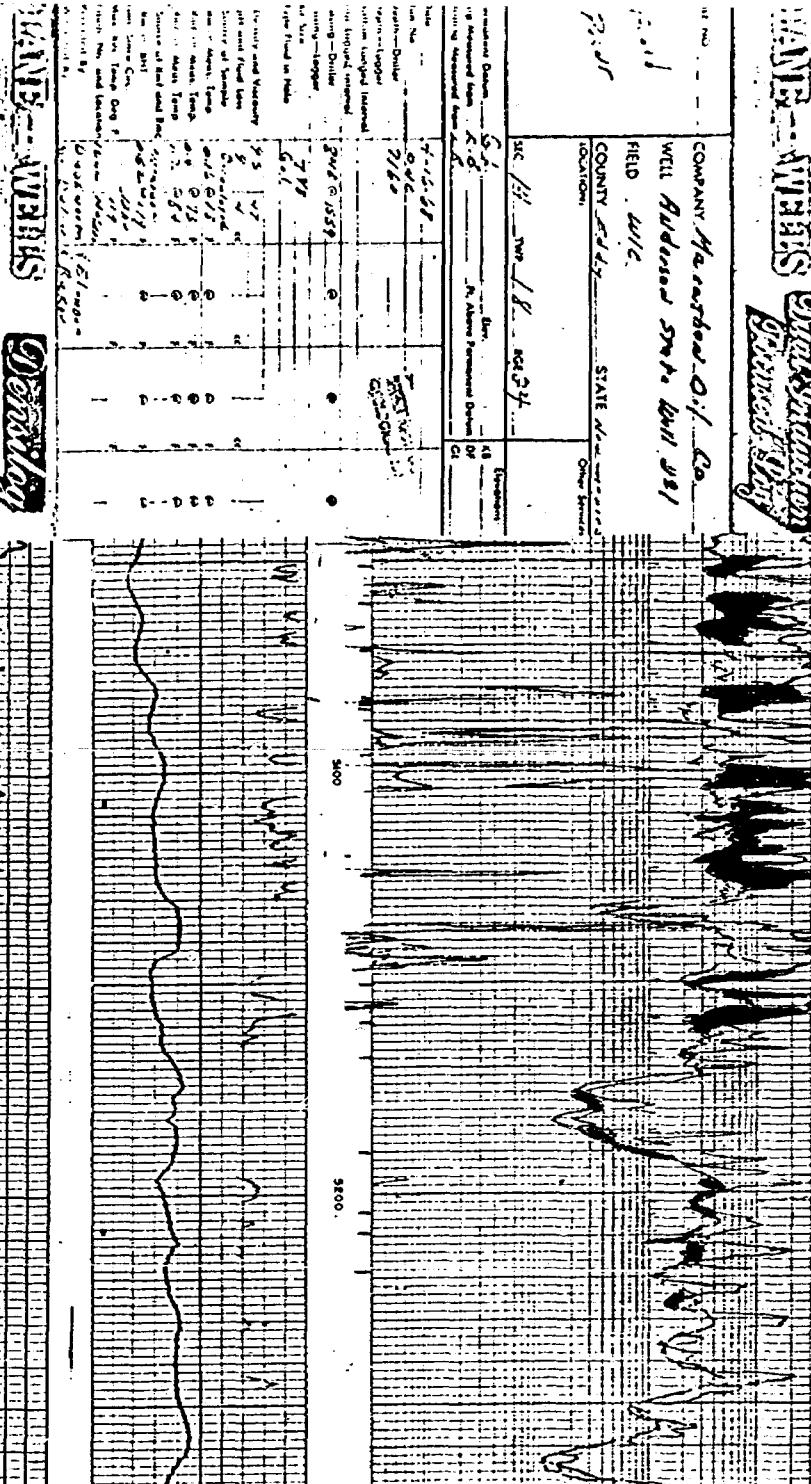
REC'D DATE **1/11/81**

REC'D TIME **10:00 AM**

REC'D BY **Other**

REC'D DATE **1/11/81**

REC'D TIME **10:00 AM**



Case No. 6919  
N.M. Oil Conservation Div.  
Examiner Hearing of 6/4/80  
Yates Petroleum Corporation  
Exhibit No. 4

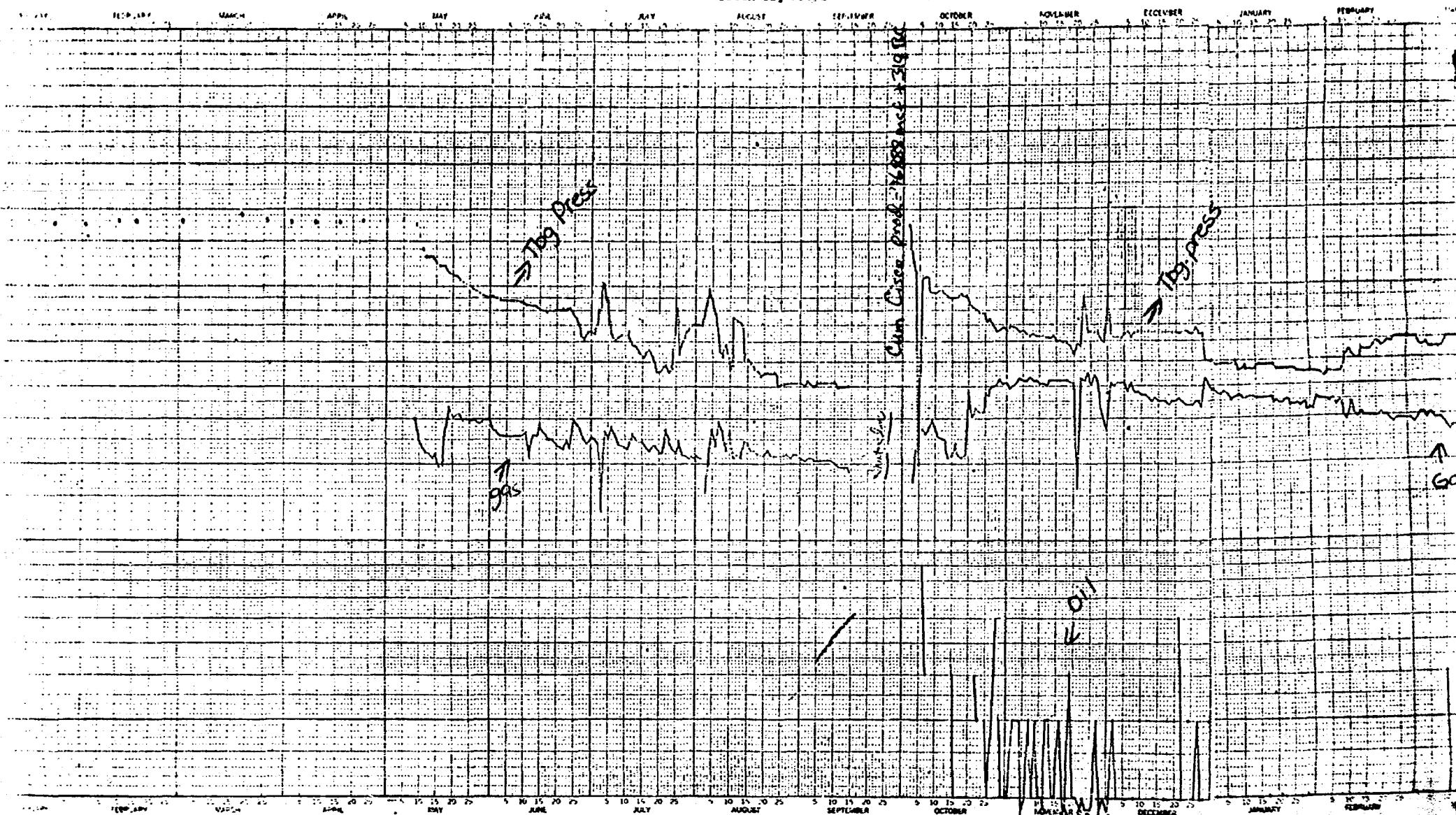
*Turbidites  
State  
T & Z  
wall*

Case No. 6919  
N.M. Oil Conservation Div.  
Examiner Hearing of 6/4/80  
Yates Petroleum Corporation  
Exhibit No. 5

ANDERSON CS My State  
Yates Pet. Corp.  
IY G 14-18-24 Fordlinus Cisco

1979

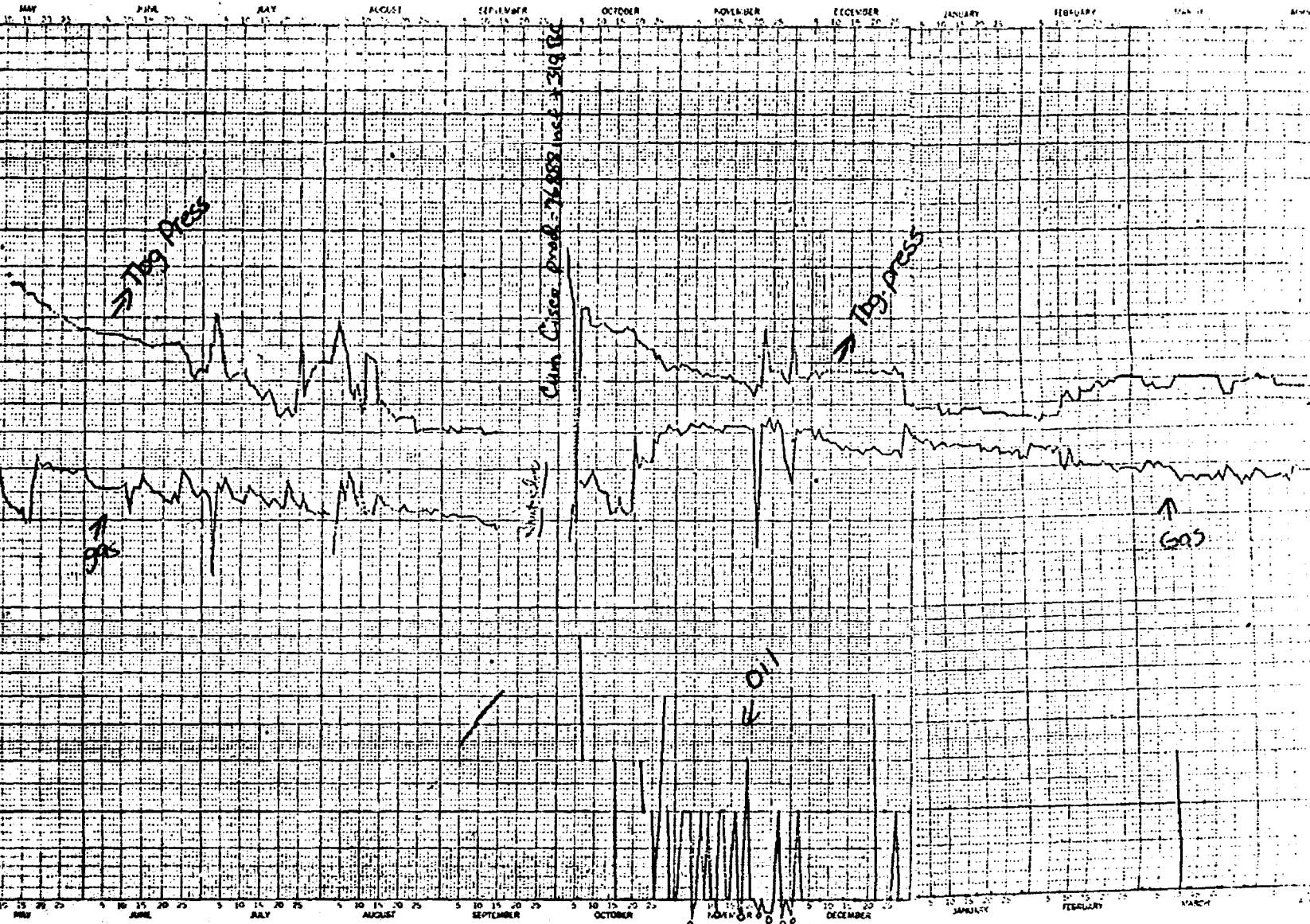
Black-Oil  
Red-Gas  
Green-Tbg Press



Black-Oil  
Red-Gas  
Green-Tbg Press

ANDERSON CS by State  
Yates Pet. Corp.  
1Y G 14-18-24 Fordinkus Cisco

1979



Case No. 6919

N.M. Oil Conservation Div.  
Examiner Hearing of 6/4/80  
Yates Petroleum Corporation  
Exhibit No. 6

Oil Production Prod=70729258+288852

Bennett Wire Line Service  
305 McArthur Ave. Ph. (505) 746 - 3281  
Artesia, New Mexico - 88210

## BOTTOM HOLE PRESSURE SURVEY REPORT

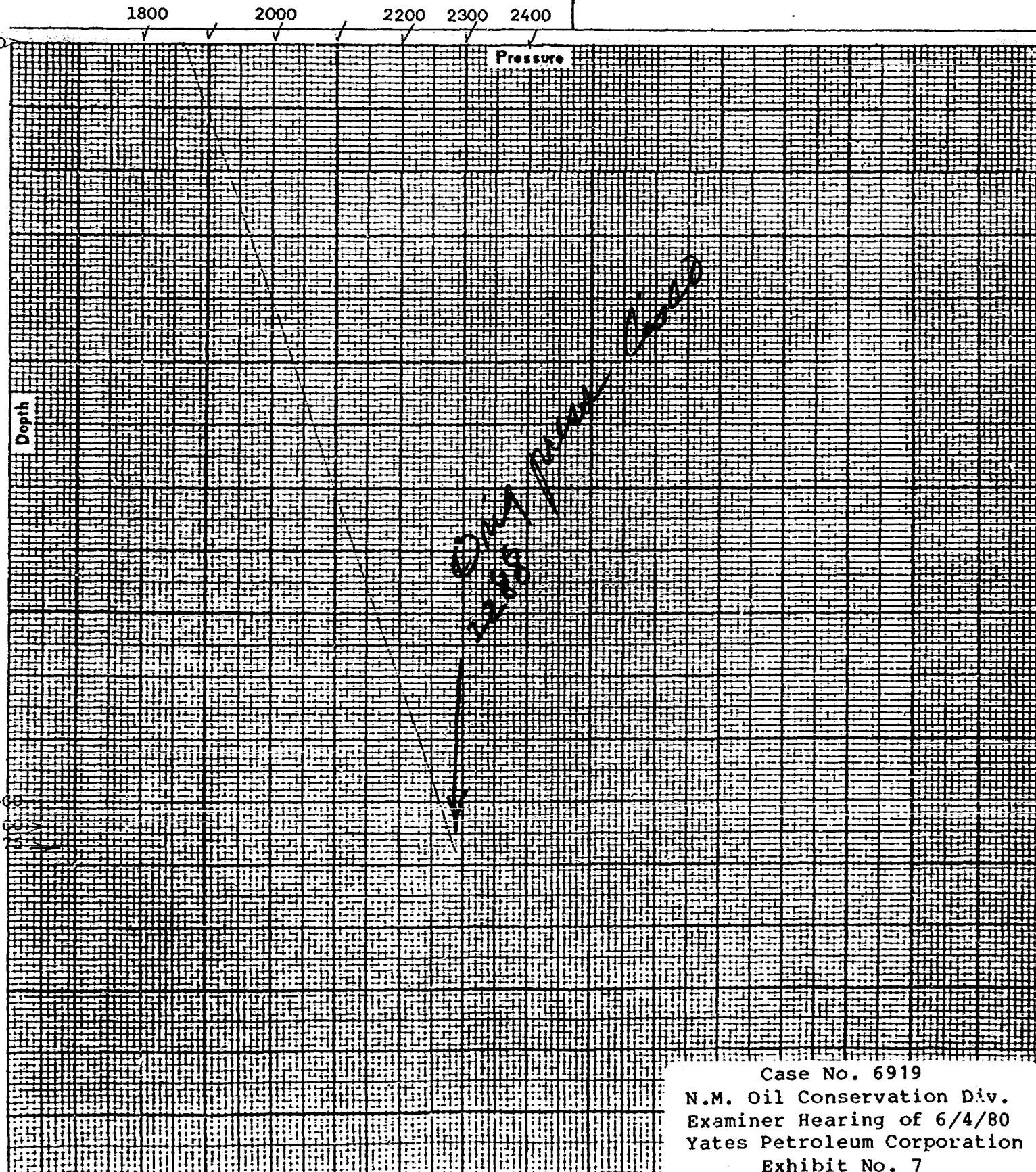
OPERATOR YATES PETROLEUM CORPORATION  
LEASE Anderson State CS BL. 185 - 24 E  
WELL NO. 1/  
FIELD \_\_\_\_\_  
DATE 6/11/73 TIME 8:00 AM.  
STATUS Shut-in TEST DEPTH (Cisco) 6375 Ft.  
TIME S.I. \_\_\_\_\_ LAST TEST DATE \_\_\_\_\_  
CAS. PRES. \_\_\_\_\_ BHP LAST TEST \_\_\_\_\_  
TUB. PRES. 1861 Lbs BHP CHANGE \_\_\_\_\_  
ELEV. FLUID TOP None  
DATUM WATER TOP "  
TEMP \_\_\_\_\_ RUN BY E.D. Bennett  
CLOCK NO. \_\_\_\_\_ GAUGE NO. \_\_\_\_\_  
ELEMENT NO. 8567

DEPTH	PRESSURE	GRADIENT
0 Ft.	1861 Lbs.	
6000 "	2261 "	06.7
6200 "	2275 "	07.0
6375 "	2288 "	08.0

NOTE:

DST IsIP 2295 @ 6396'  
extrapolated

PSIP 2228 extrapol



## BENNETT WIRE LINE SERVICE

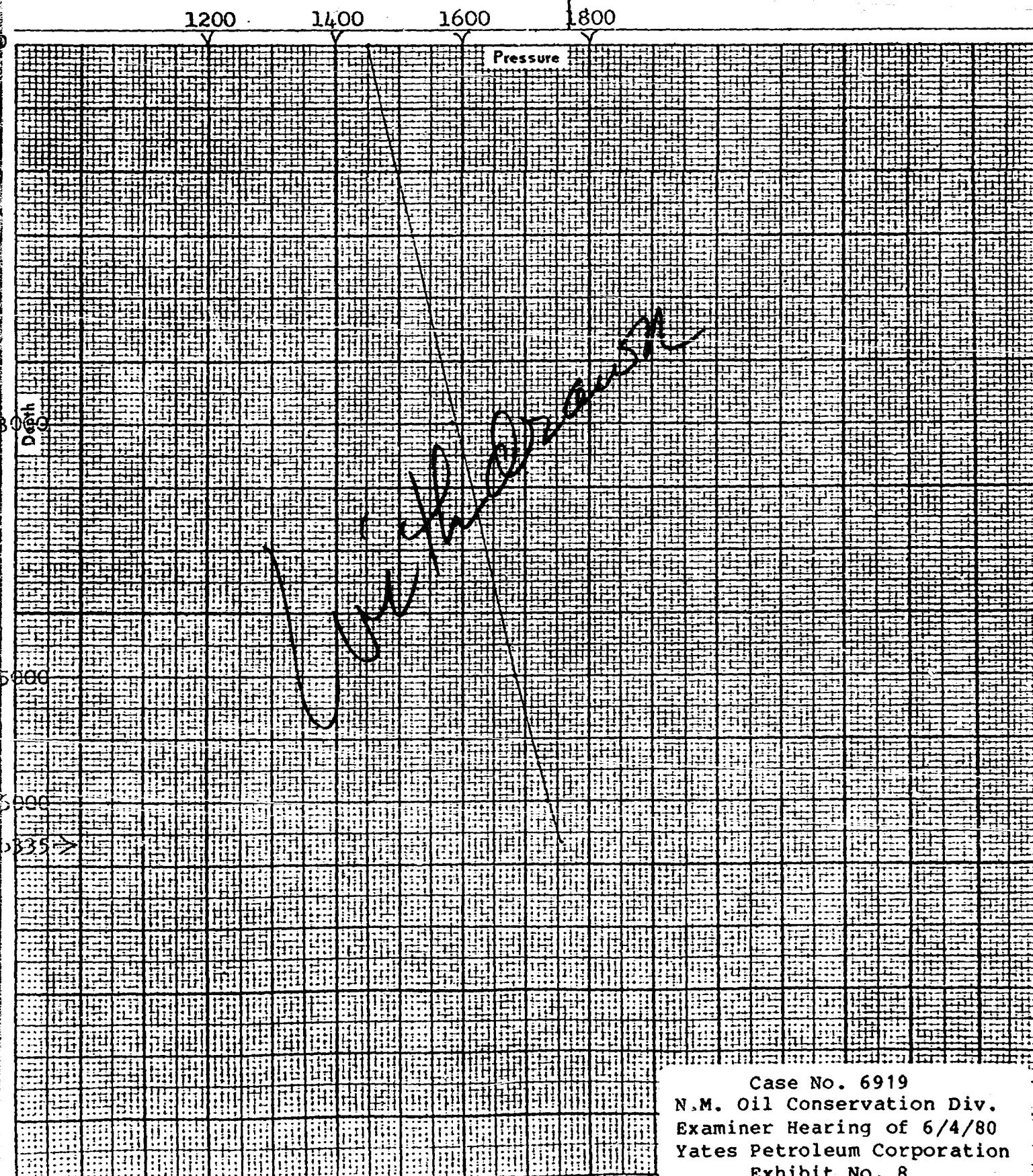
ARTESIA, N.M.  
EAST MAIN ST. 305 McArthur  
PHONE SH.6-3281

MOSES/N.M./  
RTA/BOX/152  
PHONE/EX/3-6987

## BOTTOM HOLE PRESSURE SURVEY REPORT

OPERATOR CHARLES B. READ  
LEASE ANDERSON STATE "C"  
WELL NO. 1-Y  
FIELD  
DATE 5/27/68 TIME 6:30 PM.  
STATUS Shut-in TEST DEPTH (Casca) 6335  
TIME S.I.  
LAST TEST DATE  
CAS. PRES.  
TUB. PRES. 1450 lb/BHP CHANGE  
ELEV.  
FLUID TOP None  
DATUM  
WATER TOP  
TEMP 118° RUN BY E.D. Bennett  
CLOCK NO. 381  
GAUGE NO. 381  
ELEMENT NO. 381

DEPTH	PRESSURE	GRADIENT Lbs/100'
0 Ft	1450 Lbs.	
3000 "	1583 "	04.4
5000 "	1685 "	05.1
6000 "	1736 "	05.1
6335 "	1754 "	05.3



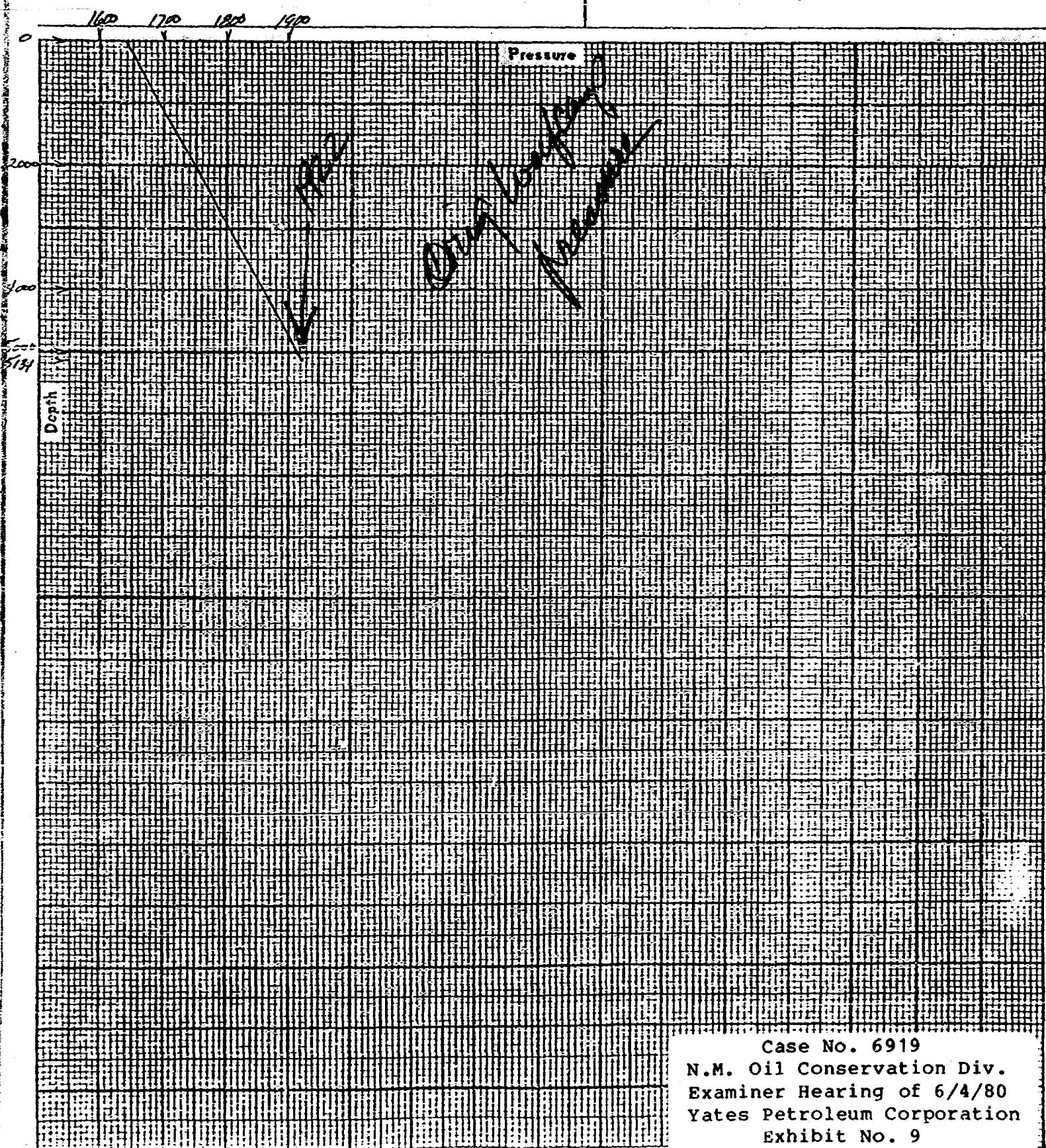
## BENNETT WIRE LINE SERVICE

P. O. BOX 787  
 ARTESIA, NEW MEXICO 88210  
 Phone 746-3281

## BOTTOM HOLE PRESSURE SURVEY REPORT

OPERATOR Yates Petroleum Corp.  
 LEASE Anderson State "CS"  
 WELL NO. 1-V  
 FIELD   
 DATE 9/27/79 TIME 6:15PM  
 STATUS Shut-in TEST DEPTH 5134 Ft. W. of Camino  
 TIME S.I.  LAST TEST DATE   
 CAS. PRES. BHP LAST TEST  
 TUB. PRES. 1641 Lbs BHP CHANGE   
 ELEV.  FLUID TOP None  
 DATUM  WATER TOP   
 TEMP 100 °F RUN BY Billy Joe  
 CLOCK NO.  GAUGE NO.   
 ELEMENT NO. 6000

DEPTH	PRESSURE	GRADIENT	
		Lbs.	/100 Ft.
0 Ft.	1641 Lbs.	-	
2000	1732	4.5	
4000	1854	6.1	
5000	1913	5.9	
5134	1922	6.7	



Case No. 6919  
 N.M. Oil Conservation Div.  
 Examiner Hearing of 6/4/80  
 Yates Petroleum Corporation  
 Exhibit No. 9

RECEIVED  
OCT 1955  
OIL CONSERVATION DIVISION  
OF THE STATE OF NEW MEXICO

BEFORE THE OIL CONSERVATION DIVISION

OF THE STATE OF NEW MEXICO

IN THE MATTER OF THE APPLICATION OF :  
YATES PETROLEUM CORPORATION FOR DUAL :  
COMPLETION, DOWNHOLE COMMINGLING, AND : CASE NO. 6919  
ABOLITION AND EXTENSION OF GAS POOLS, :  
EDDY COUNTY, NEW MEXICO :  
:

APPLICATION

COMES NOW Yates Petroleum Corporation, by its attorneys, and in support hereof, respectfully states:

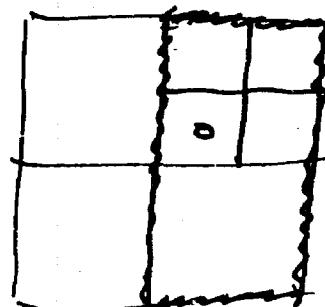
1. Applicant is the operator of the West Fordinkus State "EZ" Com. No. 1 Well located 1,980 feet from the north line and 1,980 feet from the east line of Section 22, Township 18 South, Range 24 East, N.M.P.M. The E/2 Section 22 is dedicated to the well. The well is located on the boundary of the West Fordinkus Gas Pool.

2. Applicant proposes to dually complete said well, and to commingle gas from the Cisco, through perforations between 6,430 feet and 7,108 feet, and Wolfcamp, through perforations between 5,057 feet and 5,216 feet, through the tubing. Downhole commingling is feasible, in accordance with good conservation practices and will otherwise prevent waste and protect correlative rights.

3. The Fordinkus Cisco Gas Pool should be abolished and the Penasco Draw Permo-Penn Gas Pool should be extended to cover the zones proposed to be commingled in applicant's well described above.

WHEREFORE, applicant prays:

A. That this application be set for hearing before an examiner and that notice of said hearing be given as required by law.



B. That the Fordinkus Cisco Gas Pool be abolished and that the Penasco Draw Permo-Penn Gas Pool be extended to cover applicant's well.

C. That the Division enter its order granting permission to applicant to dually complete and to commingle downhole its West Fordinkus State "HZ" Com. No. 1 Well for the production of gas from the Permo-Penn formation.

D. And for such other and further relief as may be just in the premises.

YATES PETROLEUM CORPORATION

By: Chad Dickerson  
Chad Dickerson

LOSEE, CARSON & DICKERSON, P.A.  
P. O. Drawer 239  
Artesia, New Mexico 88210

Attorneys for Applicant

BEFORE THE OIL AND GAS COMMISSION INSPECTOR

OF THE STATE OF NEW YORK

IN THE MATTER OF THE APPLICATION OF  
YATES PETROLEUM CORPORATION FOR DUAL  
COMPLETION, DOWNTIME CONSTRUCTION, AND  
ABOLITION AND EXTENSION OF GAS POOLS,  
Eddy County, New Mexico

CASE NO. 262-572

APPLICATION

James W. Yates, Yates Petroleum Corporation, by its attorneys, and in support hereof, respectfully states:

1. Applicant is the operator of the West Fordlinus State #888 Com. No. 1 Well located 1,980 feet from the north line and 1,980 feet from the east line of Section 22, Township 18 South, Range 24 East, N.M.P.M. The S.W. 1/4 Section 22 is dedicated to the well. The well is located on the boundary of the West Fordlinus Gas Pool.

2. Applicant proposes to dualily complete said well, and to commence gas from the Cisco, through perforations between 6,430 feet and 7,108 feet, and Wolfcamp, through perforations between 3,087 feet and 3,216 feet, through the tubing. Downhole commingling is feasible, in accordance with good conservation practices and will otherwise prevent waste and protect correlative rights.

3. The Fordlinus Cisco Gas Pool should be abolished and the Pecos Dray Perm-Penn Gas Pool should be extended to cover the zones proposed to be completed in applicant's well described above.

WHEREFORE, applicant prays:

A. that this application be set for hearing before an examiner and that notice of said hearing be given as required by law.

B. That the Fordinkus Cisco Gas Pool be abolished and that the Penasco Draw Permo-Penn Gas Pool be extended to cover applicant's well.

C. That the Division enter its order granting permission to applicant to dually complete and to commingle downhole its West Fordinkus State "H2" Com. No. 1 Well for the production of gas from the Permo-Penn formation.

D. And for such other and further relief as may be just in the premises.

YATES PETROLEUM CORPORATION

By: \_\_\_\_\_  
Chad Dickerson

LOSEE, CARSON & DICKERSON, P.A.  
P. O. Drawer 239  
Artesia, New Mexico 88210

Attorneys for Applicant

BEFORE THE OIL CONSERVATION DIVISION  
OF THE STATE OF NEW MEXICO

IN THE MATTER OF THE APPLICATION OF :  
YATES PETROLEUM CORPORATION FOR DUAL :  
COMPLETION, DOWNHOLE COMMINGLING, AND :  
ABOLITION AND EXTENSION OF GAS POOLS, :  
EDDY COUNTY, NEW MEXICO :  
CASE NO. 6919

APPLICATION

COMES NOW Yates Petroleum Corporation, by its attorneys, and in support hereof, respectfully states:

1. Applicant is the operator of the West Fordinkus State "E2" Com. No. 1 Well located 1,980 feet from the north line and 1,980 feet from the east line of Section 22, Township 18 South, Range 24 East, N.M.P.M. The E/2 Section 22 is dedicated to the well. The well is located on the boundary of the West Fordinkus Gas Pool.
2. Applicant proposes to dually complete said well, and to commingle gas from the Cisco, through perforations between 6,430 feet and 7,108 feet, and Wolfcamp, through perforations between 5,037 feet and 5,216 feet, through the tubing. Downhole commingling is feasible, in accordance with good conservation practices and will otherwise prevent waste and protect correlative rights.
3. The Fordinkus Cisco Gas Pool should be abolished and the Penasco Draw Permo-Penn Gas Pool should be extended to cover the zones proposed to be commingled in applicant's well described above.

WHEREFORE, applicant prays:

- A. That this application be set for hearing before an examiner and that notice of said hearing be given as required by law.

B. That the Fordinkus Cisco Gas Pool be abolished and that the Penasco Draw Permo-Penn Gas Pool be extended to cover applicant's well.

C. That the Division enter its order granting permission to applicant to finally complete and to commingle downhole its West Fordinkus State "H2" Com. No. 1 Well for the production of gas from the Permo-Penn formation.

D. And for such other and further relief as may be just in the premises.

YATES PETROLEUM CORPORATION

By:

Chad Dickerson

LOSEE, CARSON & DICKERSON, P.A.  
P. O. Drawer 239  
Artesia, New Mexico 88210

Attorneys for Applicant

1 STATE OF NEW MEXICO  
2 ENERGY AND MINERALS DEPARTMENT  
3 OIL CONSERVATION DIVISION  
4 STATE LAND OFFICE BLDG.  
5 SANTA FE, NEW MEXICO

4 June 1980

6 EXAMINER HEARING  
7  
8

9 IN THE MATTER OF:  
10  
11

12 Application of Yates Petroleum Corpor- }  
13 ation for downhole commingling or con- } CASE  
14 solidation of two pools, Eddy County, } 6919  
15 New Mexico.  
16

17 BEFORE: Daniel S. Nutter  
18  
19

20 TRANSCRIPT OF HEARING  
21  
22

23 APPARENCES  
24  
25

26 For the Oil Conservation  
Division:

Ernest L. Padilla, Esq.  
Legal Counsel to the Division  
State Land Office Bldg.  
Santa Fe, New Mexico 87501

For the Applicant:

Chad Dickerson, Esq.  
LOSEE, CARSON, & DICKERSON  
Artesia, New Mexico

SALLY W. BOYD, C.S.R.  
11, 1 Box 192-B  
Santa Fe, New Mexico 87501  
Phone (505) 455-7409

Page \_\_\_\_\_ 2

1

I N D E X

2

3

EDDIE MAHFOOD

4

Direct Examination by Mr. Dickerson

3

5

Cross Examination by Mr. Nutter

14

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10

11

E X H I B I T S

12

13

Applicant Exhibit One, Plat

4

14

Applicant Exhibit Two, Diagrammatic Sketch

9

15

Applicant Exhibit Three, Diagrammatic Sketch

9

16

Applicant Exhibit Four, Log

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17

Applicant Exhibit Five, Log

11

18

Applicant Exhibit Six, Production History

12

19

Applicant Exhibit Seven, BHP

13

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Applicant Exhibit Eight,

13

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Applicant Exhibit Nine, Document

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23

24

25

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Santa Fe, New Mexico 87501  
Phone (505) 435-7408

Page 3

1 MR. NUTTER: Call Case Number 6919.

2 MR. PADILLA: Application of Yates Petro-  
3 leum Corporation for downhole commingling or consolidation of  
4 two pools, Eddy County, New Mexico.

5 MR. DICKERSON: Chad Dickerson for the  
6 applicant, and Mr. Mahfood, the witness in the previous case  
7 is still our witness at this point.

8 MR. NUTTER: Is he still under oath?

9 MR. DICKERSON: Yes, sir.

10  
11 EDDIE MAHFOOD

12 being called as a witness and having been previously sworn  
13 upon his oath, testified as follows, to-wit:

14  
15 DIRECT EXAMINATION

16 BY MR. DICKERSON:

17 Q Mr. Mahfood, are you familiar with the  
18 application of Yates in this proceeding under 6919?

19 A Yes, sir, I am.

20 Q Would you briefly describe the purpose?

21 A We're seeking permission to downhole com-  
22 mingle in two wells or possibly extending -- these wells,  
23 there are two pools adjoining one another, and we could con-  
24 solidate the two pools into one.

25 Q Mr. Mahfood, refer for clarity to Exhibit

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Santa Fe, New Mexico 87501  
Phone (505) 455-7409

Page \_\_\_\_\_ 4

1 Number One and describe what it shows, please.

2 A Okay. Designated in red is the Penasco --  
3 on the right side of the -- in 18, 25 is the Penasco Draw  
4 Permo-Penn Gas Pool.

5 On the left side is the 4-Dinkus Cisco  
6 Gas Pool. In yellow is our Cisco completions which have since  
7 been added to the Penasco Draw Permo-Penn, which brings the  
8 two pools abutting one another.

9 Q That's the acreage colored yellow?

10 A That is correct, the acreage colored  
11 yellow.

12 Q Now point out for the Examiner the wells  
13 which are concerned in these applications today.

14 A Okay, in blue is the Anderson State "CS"  
15 No. 1, which is presently completed in the Wolfcamp and has  
16 been completed in the Cisco previously.

17 In green is the West 4-Dinkus "HZ" State  
18 No. 1, which is presently completed in the Wolfcamp, has been  
19 completed in the Cisco, has not been produced from either zone.

20 Q Now what purpose would be served by the  
21 consolidation of these two gas pools, Mr. Mahfood, into one  
22 Penasco Draw Permo-Penn Pool?

23 A Okay. The two pools have in common a  
24 reef buildup running from northeast to southwest and the  
25 Cisco and the Wolfcamp is presently in both pools. Additional

1 wells will be completed in the Permo-Penn and we feel like  
2 we need to establish a condition whereby this can be admini-  
3 stratively in the future.

4 MR. NUTTER: Well, now, Mr. Mahfood,  
5 you've got the Penasco Draw Permo-Penn over here.

6 A Yes, sir.

7 MR. NUTTER: To the east. And I presume  
8 that this pool was created for the Lower Permian and the  
9 Upper part of the Pennsylvanian. Would it be the Wolfcamp  
10 and the Cisco if you could identify them that would be pre-  
11 sent in the Penasco Draw Permo-Penn?

12 A Yes, sir. At the moment I don't -- I'm  
13 not aware of any Wolfcamp completions in the Penasco Draw  
14 Permo-Penn but --

15 MR. NUTTER: There must have been some  
16 lower Permian completions in there when we created it, though  
17 weren't they?

18 A Yeah, there's some Cisco completions,  
19 yes.

20 MR. NUTTER: Well, that would be Pennsyl-  
21 vanian. What about the Permo part of this? There must have  
22 been some lower Permian production of some sort. Wolfcamp  
23 or something else.

24 A Yes, sir, I -- right offhand -- yeah, I  
25 think the "AB" No. 5 there was a Wolfcamp -- that's a wildcat.

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Rt. 1 Box 190-B  
Santa Fe, New Mexico 87501  
Phone (505) 455-7409

1 It says "WC" discovery. I don't know whether that's a  
2 Wolfcamp discovery or --

3 MR. NUTTER: It says it was a Wolfcamp  
4 discovery, doesn't it?

5 A. It could be a Wolfcamp discovery in the  
6 Federal "AB" No. 5 in Section 21 of 18, 25.

7 MR. NUTTER: And then down here in Section  
8 31, this No. "IW" or whatever it is looks like a Wolfcamp  
9 well.

10 A. Yes, sir, that was a Wolfcamp well at one  
11 time. It is now plugged back.

12 MR. NUTTER: But now these wells over here  
13 in the 4-Dinkus Cisco, they were originally Cisco wells and  
14 two of them have been recompleted in the Wolfcamp now.

15 A. That is -- that is correct.

16 MR. NUTTER: So if we did have a consoli-  
17 dation of the two pools in a Permo-Penn type nomenclature,  
18 all of these zones could be commingled.

19 A. That is correct, yes, sir.

20 MR. NUTTER: It would be a common pool  
21 throughout. Apparently they can be in the east side here.

22 A. Yes, sir.

23 MR. NUTTER: Because it's called Permo-  
24 Penn.

25 A. That is correct, yes, sir.

SALLY W. BOYD, C.S.R.  
Rt. 1 Box 193-11  
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1                   MR. NUTTER: Do you have plans for any ad-  
2 ditional wells over here in the west side? Are these the only  
3 two wells in this pool?

4                   A.         The Spearman "KQ" is presently completed  
5 in the Atoka and it has Permo-Penn possibilities.

6                   MR. NUTTER: Where is it?

7                   A.         It is in the west half of Section 13 of  
8 18, 24.

9                   MR. NUTTER: Okay, so it's not in any  
10 pool right now, is it?

11                  A.         It's in -- I think it's in the Penasco  
12 Draw Atoka at the present time.

13                  MR. NUTTER: Where is the Penasco Draw  
14 Atoka Gas Pool, then? Where does it go?

15                  A.         I think that is the only Atoka completion  
16 at the present time, Mr. Examiner. I do know that there are  
17 additional wells planned to be drilled in this area and I'm  
18 not sure that there are any other Atoka completions at this  
19 time.

20                  MR. NUTTER: Well, do we have a pool  
21 called Penasco Draw Atoka?

22                  A.         I believe the Spearman was classified as  
23 Atoka. I cannot swear to it.

24                  MR. NUTTER: Because if we have a Penasco  
25 Draw Atoka in between here, this might present a problem to

1 the combination of the two pools.

2 Now you did state that the two wells that  
3 are on the tracts colored yellow have been recently recom --  
4 completed, and what are they?

5 A They're now classified as Penasco Draw  
6 Permo-Penn. They're both Cisco completions.

7 MR. NUTTER: They're Cisco completions in  
8 the Penasco Draw Permo-Penn and the pool has been extended to  
9 take them in?

10 A Mr. Examiner, I don't know whether this--  
11 I don't know whether the Commission has already done this of-  
12 ficially or not, but I know it is planned to be done.

13 MR. NUTTER: Well, it wasn't on the docket  
14 for the nomenclature today, anyway.

15 Okay, go ahead with your testimony. I was  
16 just trying to see if it was logical to combine the pools  
17 and then we could dispense with the portion of the case that  
18 relates to the downhole commingling of the wells individually.

19 A Mr. Examiner --

20 MR. NUTTER: You better present a case  
21 to the individual commingling. We might have problems with  
22 the consolidation of the pools.

23 A Yes, sir. Mr. Examiner, may I mention  
24 that I have discussed this with the District Supervisor and  
25 he asked me to bring up this case.

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1                   MR. NUTTER: Did he seem to indicate a  
2 preference as to which way it ought to go?

3                   A.         He thought there would be no problem con-  
4 solidating them, but he didn't say whether or not he was for  
5 it.

6                   MR. NUTTER: I see. Okay, go ahead.

7                   Q.         Mr. Mahfood, refer to Exhibit Number Two  
8 and describe what it shows.

9                   A.         Exhibit Number Two is a diagrammatic  
10 sketch of the proposed dual and downhole commingling of the  
11 Anderson "CS" State No. 1-Y. In yellow is the indication of  
12 the equipment in the hole at the present time. To commingle  
13 it we would have to remove that equipment, extend the tubing  
14 with the packer and the sliding sleeve in an open position  
15 so that the Wolfcamp can enter the tubing with the Cisco,  
16 thereby permitting downhole commingling.

17                  The Wolfcamp gas was potentialized for 750  
18 Mcf per day and at the present time I believe -- well, I have  
19 an exhibit that will tell us, at the present time the Wolf-  
20 camp zone is producing in the neighborhood of 190,000 a day.  
21 That's the Wolfcamp zone. And the Cisco zone is producing  
22 approximately 100,000 a day.

23                  Q.         So Exhibit Number Two is your plan for  
24 the Anderson Well, Mr. Mahfood. What is Exhibit Number Three?

25                  A.         Exhibit Number Three is a diagrammatic

1 sketch showing the proposed dual completion downhole commingling  
2 in the 4-Dinkus State "HC" Com No. 1.

3 Again in yellow is the present equipment  
4 in the hole. We propose to remove some of this to permit the  
5 downhole commingling. The packer at 5006 feet and the re-  
6 trievable bridge plug at 5326 would have to be removed. The  
7 tubing will need to be extended with an open sliding sleeve  
8 and a packer. The packer will be set at approximately 6400  
9 feet and the open sliding sleeve will permit the Wolfcamp  
10 and any condensate it produces to enter the tubing, to be  
11 assisted by the Cisco zone to keep the well unloaded, which  
12 will enhance production from both zones.

13 MR. NUTTER: What would be your plugback  
14 total depth on the well, then, Mr. Mahfood?

15 A At the present time --

16 MR. NUTTER: No, I mean after you recom-  
17 plete it.

18 A Okay, after we recomplete the plugback  
19 will be 7855.

20 MR. NUTTER: So this blanking plug here  
21 in the Canyon would be removed or unplugged?

22 A Yes.

23 MR. NUTTER: And those Canyon zone perfs  
24 down there would -- at 7523 to 7528 would be producing?

25 A That is correct, yes, sir, providing --

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1                   MR. NUTTER: Everything above 7855 would  
2 produce, then.

3                   A.         No, sir. At this time we hadn't planned  
4 to produce the -- below the -- I'm sorry, could you repeat  
5 the question?

6                   MR. NUTTER: Everything above 7855.

7                   A.         Yes, sir.

8                   MR. NUTTER: Would be open to production?

9                   A.         Yes, sir.

10                  MR. NUTTER: Okay. Go ahead.

11                  Q.         Now, Mr. Mahfood, do you intend to com-  
12 mingle Canyon production in this well?

13                  A.         I consider Canyon to be a part of the  
14 Upper Penn. Yes.

15                  Q.         Refer to Exhibit Number Four and describe  
16 what it shows, please.

17                  A.         Exhibit Number Four is a copy of our --  
18 a reduced copy of the density log of the Anderson State "CS"  
19 No. 1. On the left side is the porosity log in yellow -- in  
20 orange is the indicated porosities for the Wolfcamp and the  
21 Upper Penn and in the center of the log is the perforations.  
22 On the right side colored orange is the separation of the  
23 induction logs and in yellow would be the separation of the  
24 focus log, which is an indication of filter cake.

25                  Q.         Mr. Mahfood, refer to Exhibit Number Five

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1 and describe what it is.

2 A Exhibit Number Five is a reduced copy of  
3 the log on the West 4-Dinkus State "HC". Again on the left  
4 we have the -- I believe that is the dual lateral log. No,  
5 I beg your pardon. On the left we have the porosity log. On  
6 the right we have the dual lateral log. The porosities again  
7 are shown on the left in orange. In the center is the indi-  
8 cated perforations, and on the right we show the separation  
9 of the dual lateral logs in orange and the separation of the  
10 RXO log in yellow.

11 Q Mr. Mahfood, turn to Exhibit Number Six  
12 and describe what it shows.

13 A Exhibit Number Six is the production hist-  
14 ory of the Anderson State "CS" No. 1. On the left side we  
15 see the tubing pressure decline and the production decline  
16 over a period of several months. At the time when the Cisco  
17 was temporarily abandoned cumulative production was 76,888  
18 Mcf plus 319 barrels of condensate. On the right half is the  
19 tubing pressure decline and the production decline of the  
20 Wolfcamp zone and to date the cumulative production from the  
21 Wolfcamp zone is approximately 17,700 Mcf plus 200 barrels  
22 of condensate.

23 Q What do you know about the production  
24 history of your 4-Dinkus Well?

25 A Oh, both zones make condensate and

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1 they're both in a reef, and any fluids produced will be com-  
2 patible with one another. Both zones are very tight and by  
3 commingling the two zones they will enhance the production of  
4 each other. They will lighten the amount of fluid in the  
5 wellbore that is restricting the flow at the present time.

6 Q. Mr. Mahfood, turn to Exhibit Number Seven  
7 and tell the Examiner what that exhibit shows.

8 A. Exhibit Number Seven original bottom hole  
9 pressure on the Anderson State "CS" in the Cisco zone prior  
10 to putting the well on production. It shows a bottom hole  
11 pressure of 2288, which compares with a drill stem test of  
12 2295, and that's it.

13 Q. And it's my understanding that you intend  
14 to not offer Exhibit Number Eight, is that correct.

15 A. Yes, we withdraw Exhibit Number Eight.

16 Q. Please refer to Exhibit Number Nine and  
17 tell us what it shows.

18 A. Exhibit Number Nine is the original pres-  
19 sure in the Anderson State "CS" Wolfcamp completion, showing  
20 a bottom hole pressure of 1922.

21 Q. Mr. Mahfood, in your opinion would the  
22 granting of these applications for downhole commingling re-  
23 sult in the recovery of gas which would not otherwise be  
24 recovered?

25 A. I believe it would.

1                   Q.         In your opinion is the plan for the method  
2     of accomplishing the purposes sought here adequate to prevent  
3     waste and prevent any damage to the reservoirs?

4                   A.         Yes.

5                   Q.         And in your opinion would the granting  
6     of these applications otherwise be in the interest of conser-  
7     vation and the protection of correlative rights?

8                   A.         I believe it would.

9                   Q.         Were Exhibits One through Seven and Nine  
10   either prepared -- compiled by you or you've studied them so  
11   you would know the matters shown there of your own knowledge?

12                  A.         Yes.

13                  MR. DICKERSON: Mr. Examiner, we'd move  
14   the admission of Exhibits One through Seven and Nine.

15                  MR. NUTTER: Yates Exhibits One through  
16   Seven and Exhibit Nine will be admitted in evidence.

17                  MR. DICKERSON: And that concludes our  
18   direct examination.

19

20                  CROSS EXAMINATION

21                  BY MR. NUTTER:

22                  Q.         Now, Mr. Mahfood, these pressures you  
23   gave me here, Exhibit Number Seven is the original pressure  
24   in the Cisco and it's 2288. Exhibit Nine is the original  
25   pressure in the Wolfcamp and it's 1922. Do you have what

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1 the current pressures would be, or an estimate thereof?

2 A. No, sir, I don't have that information  
3 at this time. I could -- I could possibly -- I'm sure I  
4 could compute --

5 Q. If you could give me an estimate of what  
6 the pressures are in the two zones.

7 Another question, is the ownership ident-  
8 ical throughout the vertical limits here of these zones  
9 we're talking about?

10 A. Yes, sir.

11 MR. NUTTER: Are there any further ques-  
12 tions of Mr. Mahfood? He may be excused.

13 Do you have anything further, Mr. Dicker-  
14 son?

15 MR. DICKERSON: No, sir.

16 MR. NUTTER: Does anyone have anything  
17 they wish to offer in Case 6919?

18 We'll take the case under advisement.

19  
20 (Hearing concluded.)  
21  
22  
23  
24  
25

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1 C E R T I F I C A T E  
2

3 I, SALLY W. BOYD, C.S.R., DO HEREBY CERTIFY that  
4 the foregoing Transcript of Hearing before the Oil Conserva-  
5 tion Division was reported by me; that the said transcript  
6 is a full, true, and correct record of the hearing, prepared  
7 by me to the best of my ability.  
8

9 Sally W. Boyd CSR.

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14 I do hereby certify that the foregoing is  
15 a complete record of the proceedings in  
16 the Examiner hearing of Case No. 6919  
17 heard by me on 6/4 1980.  
18 J. Scott, Examiner,  
19 Oil Conservation Division

BEFORE THE OIL CONSERVATION DIVISION  
OF THE STATE OF NEW MEXICO

IN THE MATTER OF THE APPLICATION OF :  
YATES PETROLEUM CORPORATION FOR DUAL :  
COMPLETION, DOWNHOLE COMMINGLING, AND : CASE NO. 6919  
ABOLITION AND EXTENSION OF GAS POOLS, :  
EDDY COUNTY, NEW MEXICO :  
:

APPLICATION

COMES NOW Yates Petroleum Corporation, by its attorneys, and in support hereof, respectfully states:

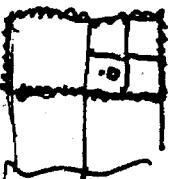
1. Applicant is the operator of the Anderson State "CS" Com. No. 1-Y Well, located 1,980 feet from the north line and 1,800 feet from the east line of Section 14, Township 18 South, Range 24 East, N.M.P.M. The N/2 Section 14 is dedicated to the well. The well is located within the boundaries of the West Fordinkus Gas Pool, but is not now producing from said pool.

2. Applicant proposes to dually complete said well, and to commingle gas from the Cisco, through perforations between 6,351 feet and 6,488 feet, and Wolfcamp, through perforations between 5,070 and 5,150 feet, through the tubing. Downhole commingling is feasible, in accordance with good conservation practices and will otherwise prevent waste and protect correlative rights.

3. The Fordinkus Cisco Gas Pool should be abolished and the Penasco Draw Permo-Penn Gas Pool should be extended to cover the zones proposed to be dually completed and commingled in applicant's well described above.

WHEREFORE, applicant prays:

A. That this application be set for hearing before an examiner and that notice of said hearing be given as required by law.



B. That the Fordinkus Cisco Gas Pool be abolished and that the Penasco Draw Permo-Penn Gas Pool be extended to cover applicant's well.

C. That the Division enter its order granting permission to applicant to dually complete and to commingle downhole its Anderson State "CS" Com. No. 1-Y Well for the production of gas from the Permo-Penn formation.

D. And for such other and further relief as may be just in the premises.

YATES PETROLEUM CORPORATION

By: Chad Dickerson  
Chad Dickerson

LOSEE, CARSON & DICKERSON, P.A.  
P. O. Drawer 239  
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Attorneys for Applicant

BEFORE THE OIL CONSERVATION DIVISION  
OF THE STATE OF NEW MEXICO

IN THE MATTER OF THE APPLICATION OF  
YATES PETROLEUM CORPORATION FOR DUAL  
COMPLETION, DOWNHOLE COMMINGLING, AND  
ABOLITION AND EXTENSION OF GAS POOLS,  
EDDY COUNTY, NEW MEXICO

CASE NO. 6979

APPLICATION

COMES NOW Yates Petroleum Corporation, by its attorneys, and in support hereof, respectfully states:

1. Applicant is the operator of the Anderson State "CST" Com. No. 1-X Well, located 1,980 feet from the north line and 1,800 feet from the east line of Section 14, Township 18 South, Range 24 East, N.M.P.M. The N/2 Section 14 is dedicated to the well. The well is located within the boundaries of the West Fordinkus Gas Pool, but is not now producing from said pool.
2. Applicant proposes to dually complete said well, and to commingle gas from the Cisco, through perforations between 6,351 feet and 6,489 feet, and Wolfcamp, through perforations between 5,070 and 5,150 feet, through the tubing. Downhole commingling is feasible, in accordance with good conservation practices and will otherwise prevent waste and protect correlative rights.
3. The Fordinkus Cisco Gas Pool should be abolished and the Penasco Draw Permo-Penn Gas Pool should be extended to cover the zones proposed to be dually completed and commingled in applicant's well described above.

WHEREFORE, applicant prays:

- A. That this application be set for hearing before an examiner and that notice of said hearing be given as required by law.

B. That the Fordinkue Cisco Gas Pool be abolished and that the Penasco Draw Permo-Penn Gas Pool be extended to cover applicant's well.

C. That the Division enter its order granting permission to applicant to dually complete and to commingle downhole its Anderson State "CS" Com. No. 1-Y Well for the production of gas from the Permo-Penn formation.

D. And for such other and further relief as may be just in the premises.

YATES PETROLEUM CORPORATION

By:

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Attorneys for Applicant

BEFORE THE OIL CONSERVATION DIVISION  
OF THE STATE OF NEW MEXICO

IN THE MATTER OF THE APPLICATION OF :  
YATES PETROLEUM CORPORATION FOR DUAL :  
COMPLETION, DOWNHOLE COMMINGLING, AND :  
ABOLITION AND EXTENSION OF GAS POOLS, :  
EDDY COUNTY, NEW MEXICO :  
: CASE NO. 6979

APPLICATION

COMES NOW Yates Petroleum Corporation, by its attorneys, and in support hereof, respectfully states:

1. Applicant is the operator of the Anderson State "CS" Com. No. 1-Y Well, located 1,980 feet from the north line and 1,800 feet from the east line of Section 14, Township 18 South, Range 24 East, N.M.P.M. The N/2 Section 14 is dedicated to the well. The well is located within the boundaries of the West Fordinkus Gas Pool, but is not now producing from said pool.

2. Applicant proposes to dually complete said well, and to commingle gas from the Cisco, through perforations between 6,351 feet and 6,488 feet, and Wolfcamp, through perforations between 5,676 and 5,158 feet, through the tubing. Downhole commingling is feasible, in accordance with good conservation practices and will otherwise prevent waste and protect correlative rights.

3. The Fordinkus Cisco Gas Pool should be abolished and the Penasco Draw Permo-Penn Gas Pool should be extended to cover the zones proposed to be dually completed and commingled in applicant's well described above.

WHEREFORE, applicant prays:

A. That this application be set for hearing before an examiner and that notice of said hearing be given as required by law.

B. That the Fordinkus Cisco Gas Pool be abolished and that the Penasco Draw Permo-Penn Gas Pool be extended to cover applicant's well.

C. That the Division enter its order granting permission to applicant to dually complete and to commingle downhole its Anderson State "CG" Com. No. 1-Y Well for the production of gas from the Permo-Penn formation.

D. And for such other and further relief as may be just in the premises.

YATES PETROLEUM CORPORATION

By: \_\_\_\_\_  
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Attorneys for Applicant

ROUGH

STATE OF NEW MEXICO  
ENERGY AND MINERALS DEPARTMENT  
OIL CONSERVATION DIVISION

IN THE MATTER OF THE HEARING  
CALLED BY THE OIL CONSERVATION  
DIVISION FOR THE PURPOSE OF  
CONSIDERING:

CASE NO. 6919

Order No. R-6418

**APPLICATION OF YATES PETROLEUM CORPORATION FOR DOWN-HOLE COMBINING OR CONSOLIDATION OF TWO POOLS, EDDY COUNTY, NEW MEXICO**

ORDER OF THE DIVISION

BY THE DIVISION:

This cause came on for hearing at 9 a.m. on JUNE 4,  
19 80, at Santa Fe, New Mexico, before Examiner DANIEL S. NUTTER.

NOW, on this \_\_\_\_\_ day of JULY, 19 80, the Division Director, 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 Division has jurisdiction of this cause and the subject matter thereof.

(2) That the applicant, Yates Petroleum Corporation, seeks authority to combine Wolfcamp and Cisco gas production in the wellbore of its Anderson State "CS" Com well No. 1-Y, located 1980 feet from the North line and 1800 from the East line of Section 14, Township 18 South, Range 24 East, NMPM, Fordinkus-Cisco Gas Pool, Eddy County, New Mexico, or, in the alternative, that said Fordinkus-Cisco Gas Pool be consolidated with the Panasco Draw Permo-Ram Gas Pool which lies approximately one mile to the East.

(3) That said Penasco Draw Permo-Penn Gas Pool was created and defined by the Division to include wells such as the aforesaid Anderson State "CS" Com 2021 No. 1-4 which are capable of gas production from the Lower Permian (Wolfcamp) Formation and from the Upper Pennsylvanian (Cisco) Formation, both in to marginal quantities and with similar reservoir pressures.

(4) That the abolishment of the Fordinkus-Cisco Gas Pool and the concomitant extension of the Penasco Draw Permo-Penn Gas Pool to include, among other lands, the lands currently contained in said Fordinkus Pool is reasonable, may permit the completion in and production from marginal zones that would otherwise be uneconomical to produce, and otherwise prevent waste, and will not impair correlative rights, and should be approved.

(5) That the Fordinkus-Cisco Gas Pool should be abolished, and the Penasco Draw Permo-Penn Gas Pool as heretofore created, defined, and described, should be extended to include therein:

TOWNSHIP 18 SOUTH, RANGE 24 EAST, AM PM

Section 13: All

Section 14: E/2

Section 22: E/2

Sections 23 and 24: All

Section 25: N/2

IT IS THEREFORE ORDERED:

- (1) That the Ferdinand-Cisco Gas Pool in Eddy County, New Mexico, as heretofore created, defined, and described, is hereby abolished.
- (2) That the Penasco Draw Permo-Penn Gas Pool in Eddy County, New Mexico, as heretofore created, defined, and described, is hereby extended to include therein:

TOWNSHIP 18 SOUTH, RANGE 24 EAST, NM P.M.

Section 13: All

Section 14: E/2

Section 22: E/2

Sections 23 and 24: All

Section 25: N/2

- (3) That that portion of the application in this case relating to downhole commingling in applicant's Anderson State "C3" well No. 1-4 is hereby dismissed.

(4) Jurisdiction

Done at...