CASE 6119: CALKINS OIL COMPANY FOR A
DUAL COMPLETION AND DOWNHOLE COMMINGLING
RIO ARRIBA COUNTY, NEW MEXICO

Case Number

6119

Application

Transcripts.

Small Exhibits

ETC.

BEFORE THE
NEW MEXICO OIL CONSERVATION COMMISSION
Santa Fe, New Mexico
January 18, 1978

EXAMINER HEARING

IN THE MATTER OF:

Application of Caulkins Oil Company for a dual completion and downhole commingling, Rio Arriba County, New Mexico. CASE 6119

BEFORE: Richard L. Stamets, Examiner

TRANSCRIPT OF HEARING

A P P E A R A N C E S

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

For the Applicant: Jason W. Kellahin, Esq.
KELLAHIN & FOX
Attorneys at Law
500 Don Gaspar
Santa Fe, New Mexico

I N D E X

EXHIBIT INDEX

MR. STAMETS: We will call next Case 6119.

MS. TESCHENDORF: Case 6119, application of Caulkins Oil Company for a dual completion and downhole commingling, Rio Arriba County, New Mexico.

MR. KELLAHIN: If the Examiner please, Jason Kellahin, Kellahin and Fox, Santa Fe, appearing for the applicant, Caulkins Oil Company, in Case 6119, 6120, 6121 and 6122. We will have one witness, we would like to make a separate record on each case, however.

MR. STAMETS: All right, let's have that witness stand and be sworn at this time for all four of those cases.

(THEREUPON, the witness was duly sworn.)

CHARLES VERQUER

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

DIRECT EXAMINATION

BY MR. KELLAHIN:

Q Would you state your name, please?

A Charles Verquer.

Q By whom are you employed and in what position, Mr. Verquer?

A I'm Superintendent for Caulkins Oil Company.

Q Will you spell that name for the record, please?

A V-e-r-q-u-e-r.

Q Where are you located, Mr. Verquer?

A Our leases are in Rio Arriba County, New Mexico, 26 North, 6 West, most of them.

Q Where do you live?

A I live in Bloomfield, New Mexico.

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

A I have.

MR. KELLAHIN: If the Examiner please, we ask if Mr. Verquer's qualifications will be recognized?

MR. STAMETS: How did you qualify, Mr. Verquer?

MR. KELLAHIN: Mr. Verquer qualified as an experienced oil man and operator of these properties.

MR. VERQUER: Since 1952 I have been associated with them.

MR. STAMETS: Like a production superintendent?

MR. KELLAHIN: Yes.

MR. STAMETS: The witness is considered qualified.

Q (Mr. Kellahin continuing.) Mr. Verquer, what does the applicant propose in Case Number 6119?

A We propose to drill a well to the Dakota to test the Dakota formation. We wish to dual complete it as a Dakota and then we wish to commingle the three producing zones above, the Pictured Cliffs, Chacra and Mesaverde. The Pictured Cliffs is the only zone in that area that is really considered com-

mercial of the upper three and the other two would be exceptionally marginal unless there just happened to be a finger in there for the Mesaverde or Chacra. The offset Chacra well in Section 18 is a pretty decent Chacra well but the Pictured Cliffs in the upper three zones is the one so we would like to commingle the three to--well, you would recover more gas that would not otherwise be produced because we cannot afford to drill a straight out Mesaverde well in the area.

Q The well has not been drilled, has it?

A No.

Q Is all of the ownership common as to all of the zones?

A All of them.

Q No difference in the working interest?

A No difference in the working interest or royalty interest from the grass roots.

Q Or overriding royalties?

A Or overriding royalties.

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

A Exhibit Number One is a map showing the--the shaded part is all of the Caulkins' property in 26 North, 6 and 7 West and 27 North and parts of three sections. The red arrow identifies the well location which is eight thirty from the north and eight thirty from the east.

Q That would be in Unit A of the Section?

A Yes, Unit A of the Section.

Q What is the significance of the shaded area?

A That is all Caulkins' properties. We own all of the interest in the shaded area.

Q And by letter the completion intervals of the various wells is shown, is that correct?

A Right. The P or PC stands for Pictured Cliffs and so forth.

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

A Exhibit Number Two, I started trying to figure out what the average pressures were for the field and this is the Pictured Cliffs tabulation. There are three pages of it, on the third page I have the averages, the initial pressure through twenty years of the pressure decline which on the one hundred and eighty-five wells makes a pretty graph but if you pick any well through there you will find the pressure jumping up and down, it is just unreal.

Q Now by way of explanation of this exhibit, your pressure tabulations go first, second, third and so forth through twenty?

A Yes.

Q So would the twentieth, for example, be 1977?

A Yes, 1977 is the last pressures on each.

Q On each instance?

A On each instance.

Q So on the first two wells the third pressure would be your 1977 pressure?

A Yes.

Q Now what kind of pressures are these?

A These are the seven day deliverability shut in pressures.

Q Where did you obtain the information?

A From the Oil Commission records in Aztec, New Mexico and our own records.

Q For a comment, now your average pressures are shown on the third page, is that right?

A That's right.

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

A That is the Mesaverde, the same thing for the Mesaverde wells, all of our wells and all of the offset wells on the mile around on that map, the offset wells to the property.

Q This exhibit is constructed on the same basis as your Exhibit Number Two?

A That is correct.

Q And the average pressures are shown in the last line?

A Yes.

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

A That is the Chacra pressure tabulations for all of the same group of wells, for all our wells and all of the offset ones and the averages.

Q Again it is based on the same type of tabulation as the other two exhibits?

A That's right.

Q And you obtained all of this information from the Oil Conservation Commission or from your own records?

A That's right.

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

A All this is is just a tabulation of all of the pressures taken from those three previous exhibits and run down which the last pressure here is, the 1977 pressure.

Q The last pressure in each column?

A In each column, yes, sir.

Q So you have twenty years on the Pictured Cliffs and Mesaverde and something less than that on the Chacra?

A Yes, sir. That first pressure is the initial pressure.

Q So if you are comparing current pressures you would look at the final figure in each column?

A That's right.

Q So the Pictured Cliffs is three hundred and three, the Chacra three fifty-five and the Mesaverde four thirty?

A Correct.

Q What are the relative depths of those different formations?

A On this proposed well the Pictured Cliffs will be at approximately twenty-nine hundred, the Chacra thirty-five and the Mesaverde, I believe, right at five thousand feet.

Q So the differences in depths would account for the differences in pressures too, is that right?

A Yes, sir.

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

A That is the decline curves from the average tabulations for each zone. The Pictured Cliffs is a solid line, the Mesaverde is a dotted line and the Chacra the dashed and using the average pressures it made a nice drop on them. I did extend it out for approximately another twenty years. I think our Pictured Cliffs will last that much longer.

Q As I understand your graph, your twentieth year would be your current pressure, is that correct?

A Right.

Q Then the rest of it is a projected curve?

A That's right.

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

A I just made a little plat of Section 18, 2, 28. This well is located in the northeast quarter and being a Mesaverde with three hundred and twenty acre dedication to it. I made a plat showing all of the wells that are direct offsets to this three hundred and twenty acres.

Q Now this is Mesaverde offsets?

A Mesaverde, Chacra and Pictured Cliffs.

Q All formations. What unit will you dedicate to the well?

A The east half.

Q That is to all three formations or the Pictured Cliffs--

A Excuse me, the Pictured Cliffs and Chacra would be just the northeast quarter.

Q And the east half the Mesaverde?

A The east half the Mesaverde, yes.

Q Now referring to Exhibit Number Eight would you identify that exhibit, please?

A I compiled a tabulation of the average pressures of the Pictured Cliffs, Chacra and Mesaverde wells that are on this plat.

Q That's the one shown on Exhibit Seven?

A Yes, and the final pressures are there also.

Q Now those pressures compare well with the eighty-five some odd wells you had on the other exhibits?

A They compare closely but the decline is not steady on these as it is on the hundred and eighty-five wells on the larger group of wells.

Q But your final pressures are close to--

A Close. The Pictured Cliffs is just a little lower than the three oh three I believe we had on the other one and this is two eighty-nine. The Mesaverde, we are only talking about one well and its pressure was four forty-two and on an average it was four thirty.

Q And the Chacra was about the same?

A Yes.

Q Now referring to Exhibit Number Nine would you identify that exhibit, please?

A Exhibit Number Nine is an individual well record showing the pressure and production for each well in this same group of wells.

Q This is the same group of wells shown on Exhibits Seven and eight?

A That's correct, cumulative production and some I show the yearly production. On the offset wells all I show is the cumulative 1976 production, through 1976 and the 1976 production.

Q You haven't had the 1977 production available on

some of these, is that correct?

A I don't have on any of these because, well, I started this in November, putting this together, so I just used the '76 figures on it.

Q Well, the '77 figure would not materially change the picture would it?

A No, they have not.

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

A This is a tabulation of the Pictured Cliffs production by the month for all of the Pictured Cliffs-Chacra dual wells owned by Caulkins Oil Company. I just used our own wells and it's monthly because they are only about three years old, in fact, it covers a thirty-one month period and I compiled the total production for each well that Caulkins owns, on the Pictured Cliffs.

Q I understood you at first to say this was Pictured Cliffs-Chacra duals?

A Yes.

Q They are not commingled though?

A No, they are not commingled at this time.

Q Now referring to Exhibit Number Eleven, what does that show?

A This is the production for the Chacra zone for the same group of wells.

Q And these are also the same dually completed wells?

A The same dually completed wells.

Q And Exhibit Twelve?

A That's the yearly production for the Mesaverde, for all of Caulkins' Mesaverde wells. I just used our own wells to compile an average production and it's from their initial production through 1976.

Q Which will be shown in column eighteen?

A Yes.

Q Now referring to Exhibit Number Thirteen, what does that show?

A This is the average production tabulations from these, the average production for each zone for each month. Now the Pictured Cliffs total production and the average of it and the Chacra and the Mesaverde is also on there but on the Mesaverde I took the average for a year. In other words, I have twelve consecutive at thirty-eight forty-five, then the next year thirty-two twenty-five and twenty-eight fifty-seven and I compiled it that way to come up with a break-down to recommend and also the way they actually were or as close as possible.

Q On the basis of this exhibit, what kind of allocation would you recommend the Commission make for production from the three different zones involved here?

A For a matter of record, I would like for it to be

on an even nickel but this is the way it is and it is thirty-one percent of the gas and all of the oil to the Mesaverde zone; twenty-one percent of the gas to the Chacra and forty-eight percent of the gas to the Pictured Cliffs.

Q And that's based on these averages you show on this exhibit?

A Yes.

Q Which in turn is based on your other exhibits, is it not?

A Right. Due to the ownership being the same it wouldn't hurt it to be thirty, twenty, fifty for a matter of record keeping.

Q Well, there could be that much variation in the production, could there not?

A Right.

Q Do you anticipate that you might increase the production from the Chacra, for example, by commingling?

A I anticipate increasing the production from both the Chacra and the Mesaverde by commingling, because we will have more gas to be able to carry that oil out from that Mesaverde zone and it does help the situation.

Q If you are permitted to commingle in your opinion will you be producing gas that would not otherwise be recovered?

A That's right.

Q And what about the Mesaverde oil, would you anticipate an increase in the production of that oil by commingling?

A Our experience with the little Mesaverde wells that we have now, they will just sit there and bubble through and you won't make a barrel a month off of it, off the Mesaverde zone. We did commingle one last year and the Mesaverde zone now is producing about a barrel and a half a day.

Q Now which well is this?

A It will be the No. 307 Well. I have some figures on it further down in the exhibits.

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

A That's the production decline curves monthly for these three zones. As you will notice, the Mesaverde is pretty straight across there being as I used an average pressure, I mean average production for the months.

Q But the other is actual production figures?

A Yes.

Q Now referring to Exhibit Number Fifteen, would you identify that exhibit?

A That is an exhibit of production records for our 368 Well which was commingled in 1977, Order Number R-5479. At the top of the page, May, June and July, the three months previous to commingling, and the biggest production was four million for the month and the August, September and October

are after the commingling and on the October we were back up to the four million, but since then--I do have the November commingled and it was five million five which indicates that we have done some good. That's the biggest month that well has had since the first three months of production.

Q Does this indicate that the commingling will enable you to produce more gas from the two formations than otherwise would be produced?

A Absolutely. It is enough gas to carry the fluid off the well and it keeps itself clean.

Q In connection with this exhibit, Mr. Verquer, have you had any problems with your gas line pressures up there?

A Yes, we have just recently, the Lybrook plant, Gas Company of New Mexico's plant caught fire and it's only operating at sixty percent capacity. Now they just cut us back because all of our gas goes through there and they cut us back to where a lot of the wells are just producing against higher line pressures, all of ours.

Q Would the normal line pressures, say for November of '77, show a higher figure?

A No, November was still a normal month. December will be the month that will really be affected by this.

Q You don't have any figures on that?

A I don't have the figures on December.

Q But you do anticipate that your production will be

cut back because of that?

A Yes, we anticipate that the production will probably be two five instead of five five.

Q Now referring to what has been marked as Exhibit Number Sixteen, would you discuss that?

A Number Sixteen is a diagram of my proposed triple completion. We propose to drill an eight and three-quarter hole and run seven inch twenty-three and twenty-six pound casing to TD, cement it in three stages and make every effort to get the cement to circulate to the surface. That is a company policy now to cover all of the pipe. After that part is done and normal drilling operations, we will perforate and frac then, the Dakota zone, set a Model D production packer above the perforations. My way of completing it is to do that with an expendable plug in that Model D packer so that when you run tubing in to complete it you just knock the plug loose and the plug falls to the bottom and you are completed in that one stage. Then it also acts as a bridge plug to do all of your completing above. After doing that complete perforate the Mesaverde and frac and set a bridge plug and get the Chacra and do the same and get the Pictured Cliffs and recover the bridge plugs and run tubing. I anticipate running two and three-eighths tubing to the Dakota zone and an inch and a quarter or an inch and a half tubing to the Mesaverde zone for the three commingled zones.

Q Now will this type of completion adequately protect the Dakota formation from communication with the upper formations?

A Yes, it will.

Q And vice versa?

A Yes, it will and annual tests will be run, packer tests.

Q You will run annual packer leakage tests?

A Yes, that's the regular scheduled tests.

Q Now would you anticipate any communication of production between the Mesaverde, Chacra and Pictured Cliffs if it is completed in this manner?

A The only possible way that it could happen, the way I see it, is if the well were shut in for an extended length of time and as close as the pressures are I don't believe you would have very much anyway because the Chacra zone is awful tight and the Pictured Cliffs zone, being the bigger zone of the three, will pressure up the quickest and I just don't anticipate too much of a migration from one to the other, especially if they are not shut in because you are going to be producing while the well is on two hundred and fifty pound line pressure or less and we are producing against two hundred and fifty now and calling that our high line pressure because normally it is about a hundred and eighty or a hundred and ninety.

Q With that kind of pressure you wouldn't anticipate any communication?

A I don't think it would hurt the well at all, no.

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

A It is a letter from the Field Superintendent of the Gas Company of New Mexico saying that they will lay the line to the well. They say prior to February 1, 1978. They do have the line staked and are in the act of the paper work now with the Federal Government getting clearance for the pipe line right-of-way, but in any event, we will not complete the well until the line is laid up on there so that the well won't be shut in for ninety days or so waiting on the pipe line. The pipe line will be there before we complete the well.

Q So that will avoid any shut in time after completion?

A It will avoid any shut in time.

Q Were Exhibits One through Sixteen prepared by you or under your supervision?

A They were.

Q And Exhibit Number Seventeen is a letter from your files, is that correct?

A Yes.

MR. KELLAHIN: At this time we offer into evidence Exhibits One through Seventeen, inclusive.

MR. STAMETS: These exhibits will be admitted.

(THEREUPON, Applicant Exhibits One through Seventeen were admitted into evidence.)

MR. KELLAHIN: That's all we have, Mr. Stamets.

CROSS EXAMINATION

BY MR. STAMETS:

Q Mr. Verquer, referring back to Exhibit Number Thirteen.

A Okay.

Q That is the average production tabulation, Pictured Cliffs, Mesaverde and Chacra.

A Yes, sir.

Q What were those figures derived from?

A Those came from these Exhibits Ten, Eleven and Twelve.

Q Okay, so that is the thirty-one month production record from the wells shown on Exhibit Number Seven, those in the immediate vicinity of the proposed well?

A No, these figures are for all of the Pictured Cliffs zone and the Chacra zone for all of the completed Pictured Cliffs-Chacra wells that Caulkins owns throughout our property

Q I see.

A The reason I did that, Mr. Stamets, the records for the wells that are that close, for instance the 314 well in Section 18 we drilled in '77. It was turned on the line just

recently. It was turned on the line I believe December 28th so I have no production records for that one. In Section 7 the Pictured Cliffs-Chacra dual, there is two of them in the west half. They were also turned on the same as this 314, so they were wells that we drilled in 1977. The only well that I had that I had any production records on that are close is the 258 Well which is in the northwest quarter of Section 18. And to come up with a relative figure that we could use, that to me would fit the whole program was to use the whole group of wells.

Q Maybe I better go back to the beginning.

A Okay.

Q On Exhibit Number Two where can I find some wells that are in or close to Section 18, the section we are concerned with today?

MR. KELLAHIN: Mr. Stamets, our wells are underlined with red on this exhibit if you want to substitute it. There are two or three others two.

Q (Mr. Stamets continuing.) Mr. Verquer, I have reviewed the copies of Exhibits Two, Three and Four which Mr. Kellahin handed me in which these close wells were underlined in red and it would appear from an examination of those wells that the wells in the vicinity of your well are not characterized by pressures significantly different from the average pressures?

A That's right.

Q To still get back to Exhibit Number Thirteen, is this the way you based your break down to the individual zones upon? Now you indicated that these are all of the dual completions?

A Yes, Caulkins Oil Company dual completions.

Q They would be located within this shaded area?

A Yes.

Q On Exhibit Number One?

A Yes, sir. The tabulations that I have of the production, that's all that I have carried on these Exhibits Ten, Eleven and Twelve. That's where I came up with my average.

Q Okay. Then going on the next page to Exhibit Number Fourteen, that's your production decline curve?

A Yes, sir.

Q It would appear that with time all of those lines are beginning to level out to about the same decline rate?

A Yes, and really are getting closer together from all indications. It looks like the Pictured Cliffs will run ahead, the Chacra has flattened out pretty well.

Q Now would you anticipate that you will get a well here which will be more like the averages than say perhaps an extra good well in the upper zones?

A Yes, I think it will be more of the average. A

Pictured Cliffs well will end up a marginal well within the first year or so normally like the rest of them out there.

Q Okay. You indicated that you just recently completed a well in the vicinity?

A Yes, in the Pictured Cliffs-Chacra.

Q What well was that?

A Number 314.

Q And what was your experience on the completion of that well?

A Of the Pictured Cliffs and the Chacra?

Q Yes.

A The 314 Well surprisingly is a pretty fair well. 312, an old dog that has been there for years isn't any good at all but 314 sold approximately four hundred thousand a day or is selling that from the Chacra and three hundred thousand from the Pictured Cliffs which is a little bit different from what we normally find.

Up in the other section, 193 in the southwest quarter is selling four hundred thousand from the Pictured Cliffs and one hundred thousand from the Chacra.

Q Well Number 193?

A Yes, in the southwest quarter of 7. It was a new well that was just recently drilled and turned on. All I have is just some of the initial production figures on it. If it would stay at that four hundred thousand it would be

beautiful but it won't do it.

Q So you anticipate that the production will decline rapidly?

A They have a history, in three months it will be half and then they are on a slow decline from there on, they will drop half in the first three months and it seems to follow with the Chacra and the Pictured Cliffs both.

Q The Well Number 314 you identify as a Pictured Cliffs-Chacra, is that downhole commingled or is that a dual?

A It's a dual.

Q Are there any downhole commingled wells in the vicinity of this 228?

A The only one in the area is in Section 23, 27. Excuse me, 26 North, 7 West in Section 23, that Number 368 Well and we brought it before the Commission last year and commingled it and from the information gathered from it we are encouraged.

Q I presume that if you were allowed to downhole commingle these zones from the very beginning rather than having to multiple complete that would be a much more economical operation?

A Yes, sir, and the case coming up next is that one.

Q Is there any liquid production associated with the Pictured Cliffs and Chacra zones?

A Right now the way it tests out the Chacra will

produce an average of two barrels a month of water.

Q Is that on a per well average?

A Yes, on a per well average. Generally less than half a barrel of water per month on the Pictured Cliffs. We report them on the forms as no water. We had to apply for permits for these open pits, you know, and that's what we came up with testing those things. The Mesaverde after the water is dissipated from the frac job you will have less than one percent water.

Q I gathered that it does make some oil?

A Yes, it will make a paraffin based oil.

Q About how much?

A Two barrels a day, if we make that we will feel real good.

Q Did you say you started preparing this data in November?

A Yes, sir.

Q I would hope that you would give the Examiner at least that long to digest it.

A Okay.

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

MR. KENDRICH: I have a question.

MR. STAMETS: Mr. Kendrich.

MR. KENDRICH: Just for clarification on your Exhibi

Two, I missed it when you explained the numbering across the top, from one to twenty. Could you help me on that, please?

MR. VERQUER: The first one is the initial pressure and from there on that is the yearly deliverability pressures.

MR. KENDRICH: The first well listed shows three pressures, the latter one being 1977?

MR. VERQUER: That's right.

MR. KENDRICH: And '76 is the prior?

MR. VERQUER: Yes, sir.

MR. KENDRICH: Thank you.

MR. STAMETS: Ms. Teschendorf.

MS. TESCHENDORF: Mr. Verquer, I notice that Caulkins Oil Company doesn't have that new fifty thousand dollar plugging bond. I talked to Mr. Kellahin about it and I understand that Caulkins has been experiencing some difficulty in obtaining one but I just thought that I would make you aware of the fact that I'm not sure that the Commission will be able to approve any further oil field activities until we did have a bond on file.

MR. VERQUER: It may not have arrived yet but it is on its way. They have it cleared.

MR. STAMETS: That's good enough.

MR. VERQUER: It was a problem.

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

(THEREUPON, the witness was excused.)

MR. STAMETS: Is there anything further in this case?

MR. KELLAHIN: No, sir.

MR. STAMETS: The case will be taken under advisement.

REPORTER'S CERTIFICATE

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

Sidney F. Morrish, C.S.R.

I do hereby certify that the foregoing is a complete record of the proceedings in the Examiner hearing of Case No. 6119, heard by me on May 15, 1979.

Richard L. Stamets, Examiner
New Mexico Oil Conservation Commission

BEFORE THE
NEW MEXICO OIL CONSERVATION COMMISSION
Santa Fe, New Mexico
January 4, 1978

EXAMINER HEARING

IN THE MATTER OF:		
Application of Caulkins Oil Company for a dual completion and downhole commingling, Rio Arriba County, New Mexico.	)	CASE 6119
Application of Caulkins Oil Company for downhole commingling, Rio Arriba County, New Mexico.	)	CASES 6120 6121 6122

BEFORE: Daniel S. Nutter, Examiner

TRANSCRIPT OF HEARING

A P P E A R A N C E S

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

MR. NUTTER: We will call next Case Number 6119, 6120, 6121 and 6122, all of which have the same style.

MS. TESCHENDORF: These cases are the application of Caulkins Oil Company for dual completion and downhole commingling, Rio Arriba County, New Mexico.

The applicant has requested that all four cases, 6119, 6120, 6121 and 6122 be continued to the January 18th Examiner Hearing.

MR. NUTTER: I'll make a correction, they don't all have the same style, 6119 involves a dual completion and downhole commingling, the others are all downhole commingling.

Cases Number 6119, 6120, 6121 and 6122 will be continued to the hearing scheduled to be held at this same place at 9 o'clock A.M., January 18th, 1978.

REPORTER'S CERTIFICATE

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

Sidney F. Morrish, C.S.R.

I do hereby certify that the foregoing is a complete record of the proceedings in the Examiner hearing of Case No. 6119, 6120, 6121 & 6122 heard by me on 1/4, 1978.

, Examiner
New Mexico Oil Conservation Commission

OIL CONSERVATION COMMISSION

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

DIRECTOR
JOE D. RAMEY

LAND COMMISSIONER
PHIL R. LUCERO

STATE GEOLOGIST
EMERY C. ARNOLD

February 2, 1978

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

Re: CASE NO. 6119
ORDER NO. R-5634

Applicant:

Caulkins Oil Company

Dear Sir:

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

Yours very truly,

JOE D. RAMEY
Director

JDR/fd

Copy of order also sent to:

Hobbs OCC x
Artesia OCC x
Aztec OCC x

Other H. L. Kendrick

BEFORE THE OIL CONSERVATION COMMISSION
OF THE STATE OF NEW MEXICO

IN THE MATTER OF THE HEARING
CALLED BY THE OIL CONSERVATION
COMMISSION OF NEW MEXICO FOR
THE PURPOSE OF CONSIDERING:

CASE NO. 6119
Order No. R-5634

APPLICATION OF CAULKINS OIL COMPANY FOR
A DUAL COMPLETION AND DOWNHOLE COMMINGLING,
RIO ARRIBA COUNTY, NEW MEXICO.

ORDER OF THE COMMISSION

BY THE COMMISSION:

This cause came on for hearing at 9 a.m. on January 18, 1978, at Santa Fe, New Mexico, before Examiner Richard L. Stamets.

NOW, on this 31st day of January, 1978, the Commission, a quorum being present, having considered the testimony, the record, and the recommendations of the Examiner, and being fully advised in the premises,

FINDS:

(1) That due public notice having been given as required by law, the Commission has jurisdiction of this cause and the subject matter thereof.

(2) That the applicant, Caulkins Oil Company, is the owner and operator of the Breech Well No. 228 to be located in Unit A of Section 18, Township 26 North, Range 6 West, NMPM, Rio Arriba County, New Mexico.

(3) That the applicant seeks authority to commingle Pictured Cliffs, Chacra, and Mesaverde production within the wellbore of the above-described well.

(4) That from the Pictured Cliffs, Chacra, and Mesaverde zones, the subject well is expected to be capable of low rates of production only.

(5) That the proposed commingling may result in the recovery of additional hydrocarbons from each of the subject pools, thereby preventing waste, and will not violate correlative rights.

(6) That the reservoir characteristics of each of the subject zones are such that underground waste would not be caused by the proposed commingling provided that the well is not shut-in for an extended period.

(7) That to afford the Commission the opportunity to assess the potential for waste and to expeditiously order appropriate remedial action, the operator should notify the Aztec district office of the Commission any time the subject well is shut-in for 7 consecutive days.

(8) That in order to allocate the commingled production to each of the commingled zones in the subject well, 50 percent of the commingled gas production should be allocated to the Pictured Cliffs zone, 20 percent of the commingled gas production to the Chacra and 30 percent of the commingled gas and 100 percent of the commingled oil production to the Mesaverde zone.

(9) That the applicant further seeks authority to complete said Breech Well No. 228 as a dual completion (conventional) to produce gas from the commingled Pictured Cliffs, Chacra, and Mesaverde zones and gas from the Dakota zone through parallel strings of tubing with separation of the commingled zones from the Dakota zone to be achieved by means of a packer.

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

(11) That approval of the subject application will prevent waste and protect correlative rights.

IT IS THEREFORE ORDERED:

(1) That the applicant, Caulkins Oil Company, is hereby authorized to commingle Pictured Cliffs, Chacra and Mesaverde production within the wellbore of the Breech Well No. 228, located in Unit A of Section 18, Township 26 North, Range 6 West, NMPM, Rio Arriba County, New Mexico.

(2) That 50 percent of the commingled gas production shall be allocated to the Pictured Cliffs zone, 20 percent of the commingled gas production shall be allocated to the Chacra zone, and 30 percent of the commingled gas production and 100 percent of the commingled oil production shall be allocated to the Mesaverde zone.

(3) That the operator of the subject well shall immediately notify the Commission's Aztec district office any time the well has been shut-in for 7 consecutive days and shall concurrently present, to the Commission, a plan for remedial action.

IT IS FURTHER ORDERED:

(1) That the applicant is hereby authorized to complete said Breech Well No. 228 as a dual completion (conventional) to produce gas from the commingled Pictured Cliffs, Chacra, and Mesaverde zones through a string of 1 1/4-inch or larger tubing and gas from the Dakota zone through a string of 2 3/8-inch tubing set in a packer located at an approximate depth of 5100 feet.

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

PROVIDED FURTHER, that the applicant shall take packer-leakage tests upon completion and annually thereafter during the Deliverability Test Period for the Basin Dakota Pool.

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

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

STATE OF NEW MEXICO
OIL CONSERVATION COMMISSION

PHIL R. LUCERO, Chairman

EMERY C. ARNOLD, Member

JOE D. RAMEY, Member & Secretary

S E A L

jr/

CAULKINS OIL COMPANY
Well No. Breech 2P6
Unit A Sec 18 26N 6W
Rio Arriba County, New Mex

Case No. 611

Proposal

Dual complete Dakota and Commingled Pictured Cliffs, Chacra and Mesa Verde.

Ownership and all working intersts common for this well.

Exhibit # 1

Section map showing all Caulkins wells, proposed well and all offset wells.

Exhibit # 2

Pictured Cliffs pressure tabulations to show average Initial pressures and each year average decline.

Exhibit # 3

Mesa Verde pressure tabulations to show average Initial pressure and each year average decline.

Exhibit # 4

Chacra pressure tabulations to show average initial pressure and each year average decline.

Exhibit # 5

Tabulation of yearly average pressures from tabulations on exhibits 2-3-4.

Exhibit # 6

Pressure decline curves from tabulations exhibit # 5.

Exhibit # 7

Plat showing well location and direct offset wells in Sections 13, 7, 19 West half 8, 17 and 20, Twp. 26N 6W, Rio Arriba County, New Mexico.

Exhibit # 8

Tabulation of average pressures for Pictured Cliffs and Chacra wells, and for one Mesa Verde well shown on plat, exhibit # 7.

Exhibit # 9

Individual well records, pressure and production for Pictured Cliffs, Chacra and Mesa Verde wells shown on plat exhibit # 7.

Exhibit # 10

Tabulations of monthly Pictured Cliffs production from Caulkins Oil Co. Pictured Cliffs - Chacra dual wells.

Exhibit # 11

Tabulation of monthly Chacra production from Caulkins Oil Company Pictured Cliffs - Chacra dual wells.

Exhibit # 12

Tabulation of yearly Mesa Verde production from all Caulkins Oil Co. Mesa Verde wells.

Exhibit # 13

Tabulation of monthly Pictured Cliffs, Chacra and Mesa Verde production from exhibits 10, 11 & 12. Note: Mesa Verde production averaged from yearly tabulation.

Proposed production split on bottom of page.

Exhibit # 14

Production curves from tabulations exhibit # 13.

Exhibit # 15

Breech 368 production records.

Pictured Cliffs - Chacra commingled 7-26-77. Order No. R-5479.

Exhibit # 16

Diagram showing proposed commingling and dual completion.

Exhibit # 17

Gas Company of New Mexico letter of intent.

CAULKINS OIL COMPANY
Well No. 228

Case No. 6119

Yearly Average Pressure Tabulation

Pictured Cliffs	Chacra	Mesa Verde
892	912	1074
645	646	861
568	494	814
542	433	782
540	382	749
534	379	729
512	351	712
497	416	676
485	395	619
474	395	636
462	379	622
442	371	601
421	355	581
397		561
379		548
358		533
347		479
338		498
324		458
318		448
303		430

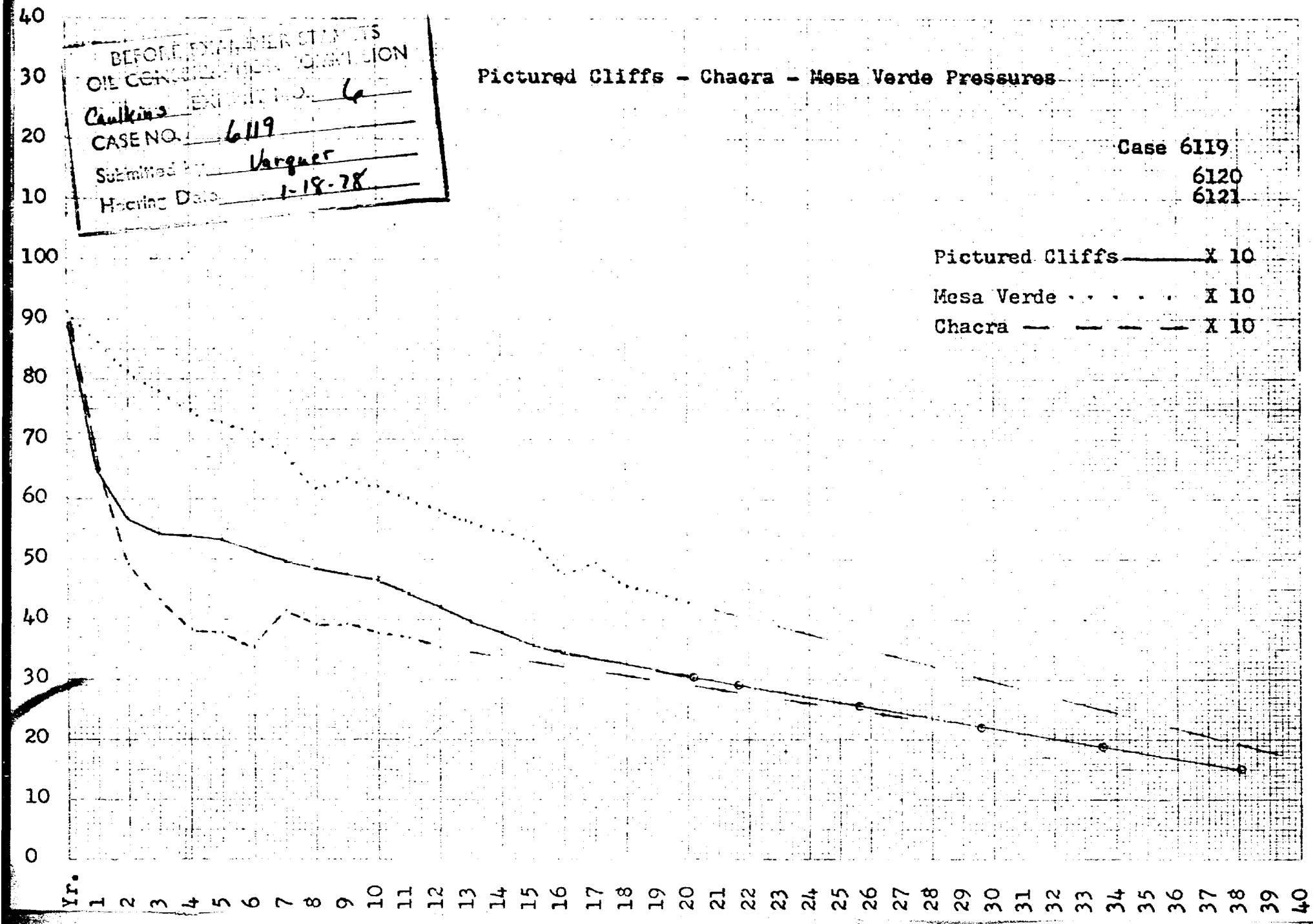
BEFORE EXAMINER STAMETS
OIL CONSERVATION COMMISSION
Caulkins EXHIBIT NO. 5
CASE NO. 6119
Submitted by Vargner
Hearing Date 1-19-78

BEFORE EXAMINER STAMETS
OIL CONSERVATION DIVISION
EXHIBIT NO. 6
Caulkins
CASE NO. 6119
Submitted by Vargner
Hearing Date 1-18-78

Pictured Cliffs - Chacra - Mesa Verde Pressures

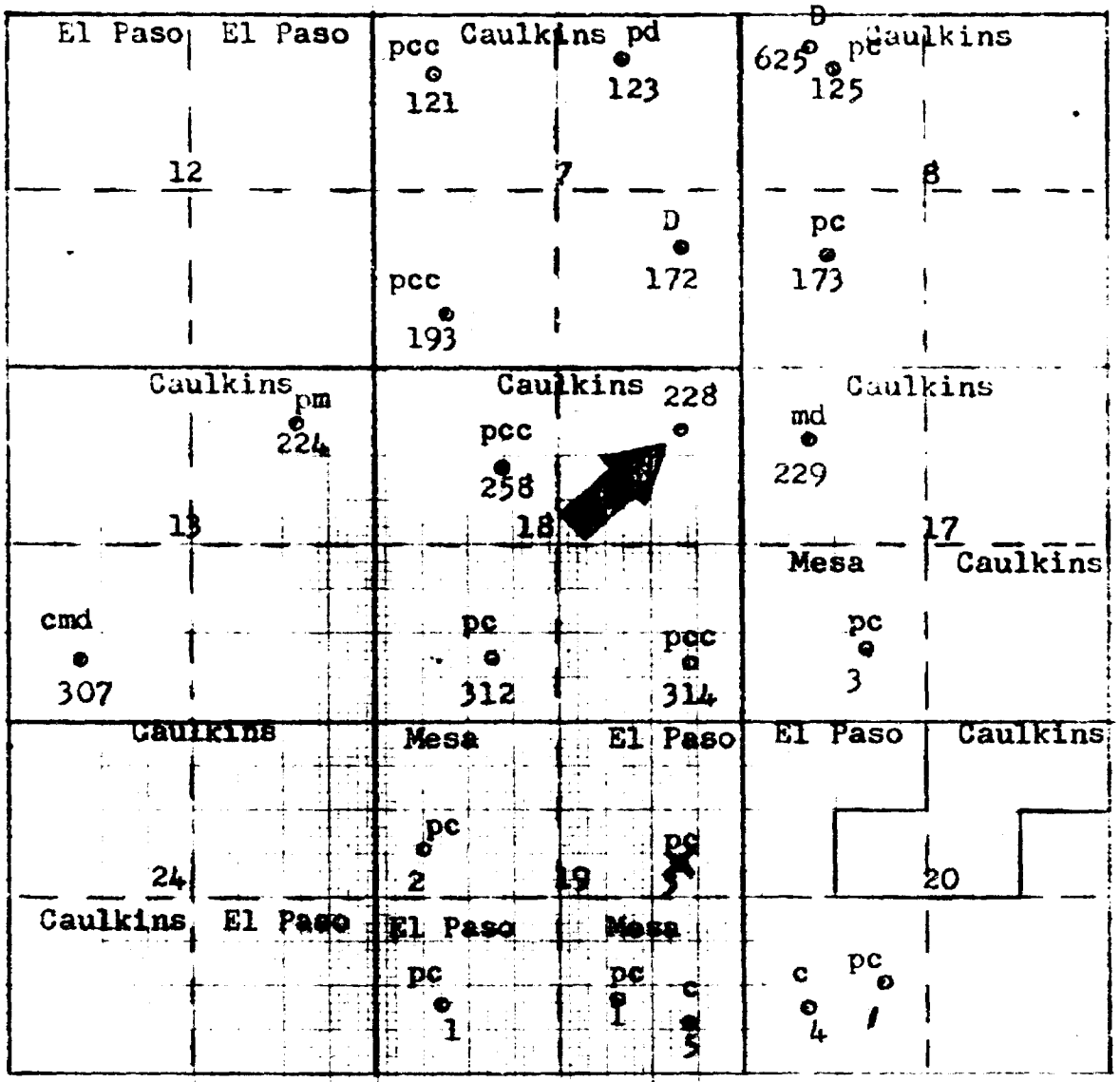
Case 6119
6120
6121

Pictured Cliffs ——— X 10
Mesa Verde · · · · · X 10
Chacra — — — — X 10



CAULKINS OIL COMPANY
Breech 228
Unit A Section 18 26N 6W
Rio Arriba County, New Mexico

Caulkins 7
6119
Vargner
1-18-78



pc	Pictured Cliffs
pd	Pictured Cliffs - Dakota dual
pcc	Pictured Cliffs - Chacra dual
pm	Pictured Cliffs - Mesa Verde dual
cmd	Chacra - Mesa Verde Dakota Dual (Mesa Verde Dakota commingled)
md	Mesa Verde - Dakota dual

CAULKINS OIL COMPANY

Avg. Pictured Cliffs - Chacra - Mesa Verde Pressures

Section 7, 18, 19, W/H 8, 17 and 20

Twp. 26N 6W, Rio Arriba County, New Mex.

Year	Pictured Cliffs	Chacra	Mesa Verde
Initial	811	936	1028
1st	616	567	953
2nd	548	464	672
4th	487	392	727
5th	486	328	712
6th	462		762
7th	413		614
8th	423		572
9th	428		492
10th	413		442
11th	403		
12th	403		
13th	410		
14th	386		
15th	374		
16th	372		
17th	346		
18th	328		
19th	313		
20th	294		
21st	289		

303

430

BEFORE EXAMINER STAMETS
OIL CONSERVATION COMMISSION
Caulkins EXHIBIT NO. 8
CASE NO. 6119
Submitted by Varner
Hearing Date 1-18-78

Well: Breech B 123 (PC)

NE ¼ Sec. 7 26N 6W

First Delivered 1-5-65

Yearly Shut in Pressure and Cumulative Production

DATE	PRESSURE	PRODUCTION
Initial	934	
1965	791	41,444
1966	632	52,836
1967	530	47,865
1968	472	33,704
1969	418	31,504
1970	384	24,475
1971	357	27,608
1972	318	24,704
1973	315	25,253
1974	267	22,319
1975		20,747
1976	262	18,098
Cumulative Production thru 1976		370,557

Well: Breech A 125
NW¼ Sec. 8 26N 6W
First delivered 9-23-54
Yearly shut in pressures and cumulative production

Date	Pressure
Initial	964
1955	682
1956	727
1957	622
1958	489
1959	569
1960	614
1961	540
1962	510
1963	616
1964	584
1965	326
1966	538
1967	495
1968	466
1969	462
1970	445
1971	405
1972	379
1973	331
1974	330
1976	317

Cumulative production thru 1976 1,064 MMCF

Cumulative 1976 production 27 MMCF

Well: Breech A 173

SW¼ Sec. 8 26N 6W

First delivered 7-31-52
Disconnected 11-6-58
Reconnected 12-7-74
Pictured Cliffs Formation

Yearly shut in pressures and cumulative production

Date	Pressure
Initial	730
1954	644
1955	657
1956	397
1974	599
1975	470
1976	277

Cumulative production thru 1976 100 MMCF

Cumulative 1976 production 34 MMCF

Well: Breech A 229 (Mesa Verde None)

NW¼ Sec. 17 26N 6W

First Delivered 12-28-65

Yearly Shut in Pressure and Cumulative Production

Date	Pressure	Gas Production	Oil Production
Initial	1028		
1965		4,584	
1966	953	22,328	1320
1967	672	7,368	454
1968	727	7,582	159
1969	712	6,156	68
1970	762	6,827	59
1971	Exempt	10,675	127
1972	614	15,772	201
1973	572	16,365	125
1974	492	22,361	115
1975		17,938	133
1976	442	15,470	160
	Cumulative	154,426 MCF	2921 bbls.

Well: Scott 3

SW ¼ Sec. 17 26N 6W

First Delivered 12-17-53

Yearly Shut in Pressure and Cumulative Production

DATE	PRESSURE
Initial	772 (21)
1954	337
1955	669
1956	503
1957	479
1958	413
1959	406
1960	383
1961	360
1962	360
1963	374
1964	304
1965	309
1966	359
1967	364
1968	346
1970	364
1971	374
1972	344

Exempt Marginal Since 1972

Cumulative Production thru 1976 . 202 MMCF

1976 Cumulative Production 5 MMCF

Well: Breech 312

SW ¼ Sec. 18 26N 6W

First Delivered 3-13-58

Yearly Shut in Pressure and Cumulative Production

DATE	PRESSURE	PRODUCTION
Initial	834	
1958	723	31,737
1959	574	27,417
1960	577	22,192
1961	552	19,340
1962	558	14,670
1963	570	14,910
1964	551	11,402
1965	507	16,867
1966	495	18,576
1967	517	20,286
1968	500	19,346
1969	470	19,563
1970	432	21,038
1971	333	19,176
1972	400	22,695
1973	391	23,823
1974	342	20,846
1975		19,811
1976	302	17,300
Cumulative Production thru 1976		380,995

WELL: Breech 258

First Delivered October, 1976

Monthly Gas Production

Date	Pictured Cliffs	Chacra
Oct. 1976	2469	173
Nov. 1976	5361	2209
Dec. 1976	6292	3366
Jan. 1977	5310	2751
Feb. 1977	5800	3177
March, 1977	5276	2879
April, 1977	4423	3300
May, 1977	4029	2798
June, 1977	3943	2032
July, 1977	4347	2380
August, 1977	4238	1994
Sept., 1977	3126	1950
Oct., 1977	3963	1913
Cumulative	58,577	30,922

Split 65% Pictured Cliffs and 35% Chacra.

Well: Buttram #

NW ¼ Sec. 19 26N 6W

First Delivered 9-23-53

Yearly Shut in Pressure and Cumulative Production

DATE	PRESSURE
Initial	899 (7)
1954	604
1955	548
1956	468
1957	467
1958	392
1960	390
1961	431
1962	387
1963	379
1964	392
1965	384
1966	359
1967	328
1968	334
1969	292
1970	310
1971	270
1972	266
1973	290
1974	255
1976	227

Cumulative Production thru 1976 802 MMCF

1976 Cumulative Production 28 MMCF

Well: Reams # 3

NE ¼ Sec. 19 26N 6W

Yearly Shut in Pressure and Cumulative Production

DATE	PRESSURE
Initial	865 (8)
1955	877
1956	516
1957	493
1958	444
1959	403
1960	405
1961	408
1962	415
1963	406
1964	399
1965	348
1966	374
1967	421
1968	397
1969	318
1970	303
1971	285
1972	229
1973	226
1974	222
1976	250

Cumulative Production thru 1976 552 MMCF

1976 Cumulative Production 18 MMCF

Well: [redacted] 1

SW ¼ Sec. [redacted] 26N 6W

Yearly Shut In Pressure and Cumulative Production

DATE	PRESSURE
NONE REPORTED	
1954	621
1955	617
1956	638
1957	589
1958	565
1959	299
1960	455
1961	544
1962	541
1963	531
1964	528
1965	526
1966	497
1967	514
1968	469
1969	429
1970	394
1971	427
1972	456
1973	387
1974	363
1976	344

Cumulative Production thru 1976 464 MMCF

1976 Cumulative Production 14 MMCF

Well: Buttram # 1

SE ¼ Sec. 19 26N 6W

First Delivered 1-1-54

Yearly Shut in Pressure and Cumulative Production

DATE	PRESSURE
Initila	793 (11)
1954	591
1955	490
1956	438
1957	449
1958	368
1959	358
1960	353
1961	387
1962	372
1963	372
1964	385
1965	333
1966	346
1967	316
1968	314
1969	280
1970	290
1971	267
1972	226
1973	232
1974	242
1976	209

Cumulative Production thru 1976	624 MMCF
1976 Cumulative Production	18 MMCF

Well: [illegible] (El Paso)
[illegible] Sec. 20 26N [illegible]
First delivered 6-12-74
Chacra Zone
Yearly shut in pressures and cum[illegible]

Date	Pressure
Initial	[illegible]08
1975	56[illegible]
1976	496
1977	445

Cumulative production thru 1976 77 MMCF

1976 Cumulative production 25 MMCF

Well: Buttram 5 (Mesa)
SE_4 Sec. 19 26N 6W
First delivered 4-30-73
Chacra Zone
Yearly shut in pressure and cumulative [illegible]

Date	Pressure
Initial	855
1973	499
1974	409
1975	333
1977	328

Cumulative production thru 1976 251 MMCF

1976 cumulative production 43 MMCF

[redacted]
[redacted]
First Delivered: 11-17-55
Pictured Cliffs Formation
Yearly Shut in Pressures and [redacted]

Date	Pressure
Initial	[illegible]
1959	[illegible]
1960	[illegible]
1961	357
1962	354
1963	[illegible]
1964	[illegible]
1965	[illegible]
1966	367
1967	[illegible]
1968	[illegible]
1970	300
1971	286
1972	262

Exempt since 1972

Cumulative production thru 1976 [illegible] MCF

Cumulative 1976 production [illegible] MCF

CAULKINS OIL COMPANY
Pictured Clifs Prod.
Monthly

	1	2	3	4	5	6	7	8	9	10
Sanchez 5	5920	7258	3696	4021	3980	3254	3567	2177	3139	2992
Breech E 51	200	16307	13849	10590	10098	9114	8416	7268	6610	6827
Breech 217	9405	8983	8452	7227	6362	6284	5085	6204	5080	3697
Breech 258	2469	5361	6292	5310	5800	5276	4423	4029	3943	4347
Breech 330	12781	13635	11363	11289	10064	8602	7277	8000	7365	5181
Breech 332	14427	13631	12358	12936	11841	10423	8682	9982	9141	7473
Breech D 342	617	7650	4917	5214	4621	4091	3725	3579	3484	2969
Breech 352	23438	18752	17631	15292	15330	14552	14500	10673	13154	11557
Breech 354	13917	9237	8798	7698	7884	6895	5037	6080	6717	5954
Breech 368	7447	7164	7464	3514	4431	4716	4526	5450	4424	4181
Breech 382	12532	13137	13102	5951	7414	8400	7633	8886	7176	7792
Breech D 383	6995	4013	3368	2280	——	2742	3654	3518	3070	2988
Breech D 385	9901	6717	7126	4060	——	3782	6715	6094	5329	5157
Breech D 387	18678	14652	19236	10411	——	7479	17061	15677	13434	13402
	138,727	146,497	137,652	105,793	87,825	95,610	100,301	97,617	92,066	84,617
Avg.	9909	10464	9832	7557	6273	6829	7164	6973	6576	6044

11	12	13	14	15	16	17	18	19	20	21	22
2792	2628	1840	2377	2508	2187	2046	1597	1904	1935	2045	1975
6998	4680	6994									
1363	2798	3799	5151	1546	4278	5098	4748	4304	5093	5008	3194
4238	3126	3963									
7733											
9497											
3233	2179	1249	1710	3275	3308	3160	2796	2827	2608	2374	2716
9003	4308	9529	11007	10687	10167	10165	10058	9801	8262	9971	9245
5927	4982	5950	5358	5082	4410	5088	4033	1997	1021	4235	4647
3872	4484	4172	4200	3364	3947	3095	2067	531	2455	3269	2750
5648	7139	6475	6500	4610	5721	4214	2813	818	3769	5335	4414
2839	2583	2599	2341	2424	2114	2111	1776	1363	2468	2541	2373
4930	4510	4451	4132	4321	3596	3802	3090	1665	2115	4058	3962
12855	11219	10746	10114	10405	8347	9599	7174	4207	5724	9609	10038
80928	54636	61,767	52,890	48,222	48,075	48,378	40,152	29,416	35,450	48,445	45,314
5811	4553	5147	5289	4822	4808	4838	4015	2942	3545	4845	4531

23	24	25	26	27	28	29	30	31	Cum. Total
1453	1817								69,108
									107,951
5353									118,512
									58,577
									103,290
									120,491
2814	1900	2789							30,443
7358	9816								284,256
4601	4511	3653	3964	4220	3827	4340	4265	2222	170,804
2208	3250	3228	3292	2908	1488	1500	2378	2997	114,772
3964	4707	4640	4298	3871	4171	3942	2405	5055	184,331
2228	1793	1891	1784	1607	1925	1910	1599	1910	76,806
3779	3293	3449	3219	2975	3390	3516	2572	3498	129,204
8128	8105	8598	7659	6657	7953	8203	5550	8248	309,218
41886	39192	28,248	24,216	22,238	22,754	23,411	18,769	23,730	1,877,763
4189	4354	4035	4036	3706	3792	3901	3128	3955	

Caulkins Ex 10
CA 6119
by Vargner 1-18-78

CAULKINS OIL COMPANY
Chacra Production
Monthly

		1	2	3	4	5	6	7	8	9	10
Sanchez	5	9617	8587	5568	5216	5673	3254	4719	3800	4370	4156
Breech E	51	1120	785	226	430	371	465	457	566	396	439
Breech	217	14038	10172	8828	7113	5698	5111	4629	5061	4586	3823
Breech	258	173	2209	3366	2751	3177	2879	3300	2798	2032	2380
Breech	307	7144	2697	6370							
Breech	330	5820	6193	4491	4341	3488	2869	1798	2923	2832	634
Breech	332	56	640	411	819	918	1721	465	611	1255	313
Breech D	342	376	3985	2805	3079	2677	2316	2210	1982	1853	1661
Breech	352	3899	2886	2409	2807	2813	2353	2500	1812	1723	1614
Breech	354	13376	9392	8758	7656	7158	6505	5817	5881	6251	5432
Breech	368	3281	2646	2326	2323	1132	1308	1825	2360	1355	1215
Breech	382	4271	5011	4351	3189	3089	2261	2687	3096	2258	2477
Breech D	383	5243	3554	3641	2022	2128	2026	1354	2259	2044	2381
Breech D	385	7824	4106	3538	3402	2866	2699	2520	2475	2214	2053
Breech D	387	9904	5046	3803	2955	2357	2324	1879	1806	2039	1564
Breech E	581	3271	2135	1994	1457	1150	912	817	832	734	
		89,413	69,734	62,885	49,560	44,695	39,003	36,077	38,062	35,942	30,142
Average		5888	4358	3930	3304	2980	2602	2465	2537	2396	2153

11	12	13	14	15	16	17	18	19	20	21	22
3570	3508	2583	3454	2832	3054	3036	2390	3050	2378	3014	2969
493	186	368									
1381	4245	3778	3621	3602	2848	3099	2998	3151	3736	3182	3208
1994	1950	1913									
2012											
1243											
1670	1572	1173	1570	1514	1574	1323	1193	1221	1189	1195	1336
692	358	636	1398	1665	1034	1356	1505	1582	977	1244	1509
4972	4379	3542	4619	4214	3883	4322	3275	3359	1638	3377	4663
930	1267	1654	1600	884	663	759	843	188	864	777	1051
2195	2528	2472	2500	1893	2074	1776	574	——	423	1971	1978
2294	2127	2249	2268	2331	2022	2128	2026	1354	2259	2044	2021
2035	1829	1878	2190	2069	1928	1863	1721	921	1938	1838	1660
1417	1772	1652	1577	1806	1321	1495	1296	532	1078	1811	1340
26898	25,721	23,898	24,797	22,810	20,401	21,157	17,821	15,358	16,470	20,453	21,735
1921	2143	1991	2480	2281	2040	2116	1782	1539	1647	2043	2174

23	24	25	26	27	28	29	30	31	Cum. Total	
2097	2804								95,499	
									6302	
2910									110,818	
									30,922	
									16,211	
									37,401	
									8,452	
1213	1190	1233							43,110	
532	1932								41,286	
4087	4174	3775	4312	3793	3699	4185	3596	3122	160,875	
917	935	1331	874	690	1071	840	1781	1054	50,744	
1323	1697	2045	2197	1463	1802	1980	946	2089	67,650	
1911	1735	1881	1889	1816	1829	1765	1530	1616	67,747	
1544	1367	1472	1400	1575	1529	1475	1380	1403	72,612	
1117	982	1059	1020	1059	1162	1112	1051	1035	60,472	
									13,302	
17,651	16,816	12,796	11,692	10,396	11,093	11,357	10,284	10,319	873,403	MCF
1765	1868	1828	1949	1732	1849	1893	1714	1720		

Caulkins 11
6119
Varquez
1-18-78

Caulkins Oil Company

Mesa Verde Production

Yearly

		1	2	3	4	5	6	7	8
Breech A	229	4584	22,328	7368	7582	6156	6827	10,675	15,772
Breech	224	49,150	64,495	50,988	42,456	60,477	45,833	76,686	79,289
Breech	307	9,078	8,199	9,093	6,164	8,802	15,621	19,040	12,790
Breech F	4	11,557	20,231	10,055	9,573	20,240	11,788	9,229	6,119
Breech F	8	31,413	38,723	41,712	36,955	37,145	25,259	29,765	27,713
Breech F	12	43,597	197,968	138,223	93,534	38,089	67,057	80,812	67,125
Breech F	45	26,448	50,736	62,903	58,159	27,259	27,805	56,363	61,908
Breech E	58	67,478	84,431	30,711	65,966	65,796	45,291	66,919	53,514
State A	62	24,664	64,071	70,256	42,386	64,691	47,043	40,733	24,001
Breech E	64	28,025	52,282	67,442	50,238	26,541	17,396	10,153	27,748
Breech D	341	32,239	30,324	18,749	12,729	21,901	25,922	28,646	20,523
		328,232	633,788	507,500	425,742	377,097	335,842	429,021	396,502
Yearly Avg. Per			57,610	46,140	38,700	34,280	30,530	39,000	36,050

9	10	11	12	13	14	15	16	17	18
16,365	22,361	17,938	15,470						
80,033	84,438	87,732	91,987	89,778	85,465	83,893	62,637	68,367	
8,612	4,055								
6.032	5,196	3,690	5,552	6,659	8,379	9,424	11,780	7,853	9,470
22,573	23,160	14,542	21,051	22,501	22,074	23,695	21,103	23,563	23,827
58,398	39,505	40,510	16,353	15,633	27,451	92,437	85,622	98,781	79,917
58,242	59,724	49,291	45,650						
47,342	23,108	32,633	60,678	70,990	65,409	69,404	52,906	46,305	
26,159	49,532	50,932	46,352	49,452	44,094	36,796			
51,658	45,287	47,541	35,374	26,053					
25,261	24,561	24,396							
400,670	380,917	369,205	338,717	281,166	252,872	315,649	234,048	244,869	113,214
36,420	34,630	36,920	37,640	40,160	42,150	52,110	46,810	48,975	37,738

Caulkins 12

6119

Marquez

1-19-78

AVERAGE PRODUCTION TABULATIONS
Monthly

Case No. 6119

Pictured Cliffs	Chacra	Mesa Verde	Total	Breakdown PC	Ch	MV
9909	5588	3845	19642	50	30	20
10464	4358	3845	18667	56	23	21
9832	3930	3845	17607	56	23	22
7557	3304	3845	14706	51	22	27
6273	2980	3845	13098	48	23	29
6829	2602	3845	13276	51	20	29
7164	2465	3845	13474	53	18	29
6973	2537	3845	13355	52	19	29
6576	2396	3845	12817	51	19	30
6044	2153	3845	12042	50	18	32
5811	1921	3845	11577	50	17	33
4553	2143	3845	10541	43	20	37
5147	1991	3225	10363	50	19	31
5289	2480	3225	10994	48	23	29
4822	2281	3225	10328	47	22	31
4808	2040	3225	10073	48	20	32
4838	2116	3225	10179	47	21	32
4015	1782	3225	9022	45	20	35
2942	1539	3225	7706	38	20	42
3545	1647	3225	8417	42	20	38
4845	2043	3225	10113	48	20	32
4531	2174	3225	9930	46	22	32
4189	1765	3225	9179	46	19	35
4354	1868	3225	9447	46	20	34
4035	1828	2857	8720	46	21	33
4036	1949	2857	8842	46	22	32
3706	1732	2857	8295	45	21	34
3792	1849	2857	8498	45	22	33
3901	1893	2857	8651	45	22	33
3128	1714	2857	7699	41	22	37
3955	1720	2857	8532	46	20	34
			Avg.	48	21	31

100 oil

Recommend production split all oil and 31% of gas to Mesa Verde Zone, 21% of gas to Chacra zone and 48% of gas to Pictured Cliffs zone.

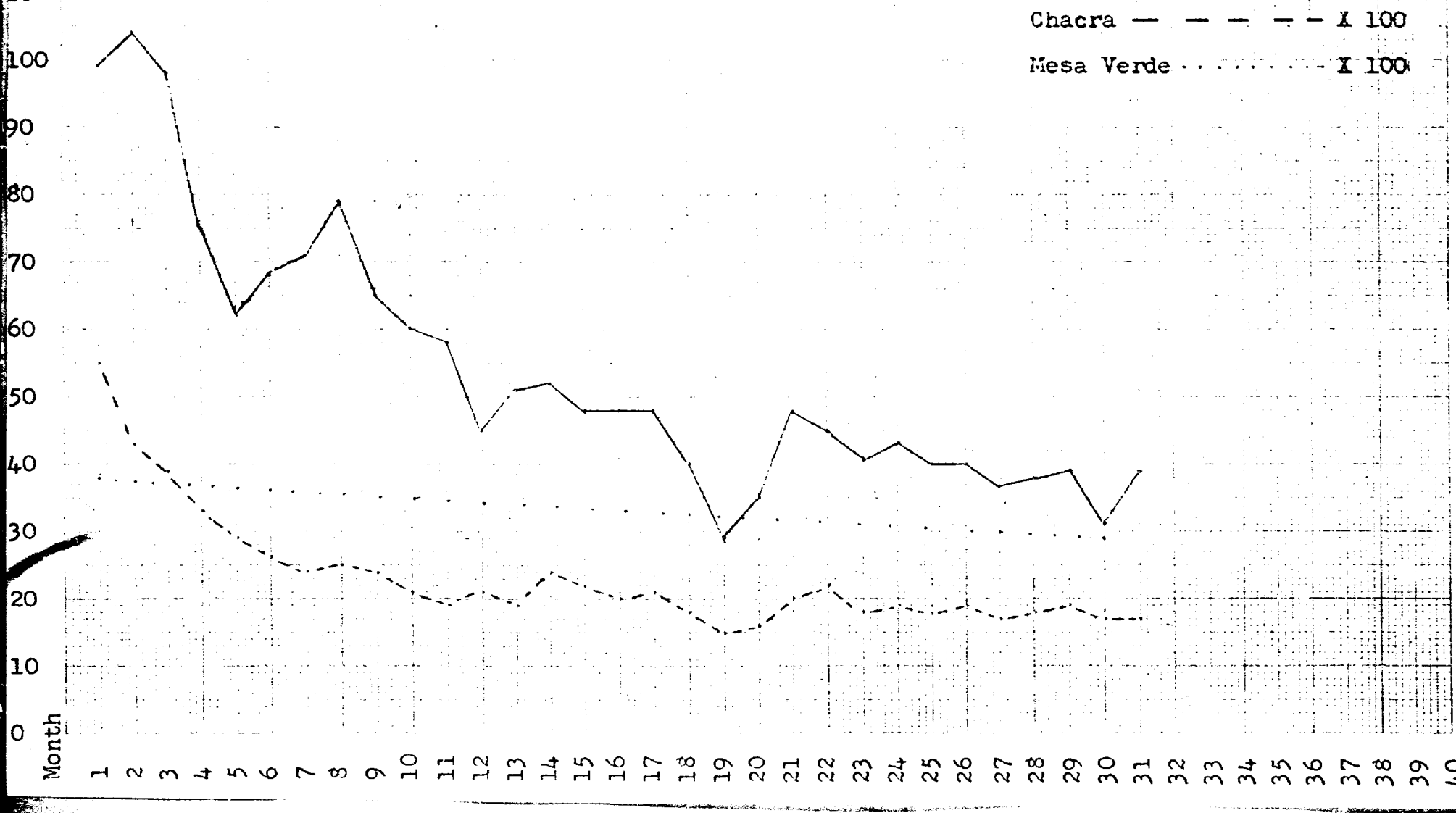
BEFORE EXAMINER STAMETS
OIL CONSERVATION COMMISSION
Caulkins EXHIBIT NO. 13
CASE NO. 6119
Vargues
1-18-78

BEFORE EXAMINER STAMETS
OIL CONSERVATION COMMISSION
EXHIBIT NO. 14
Caulkins
CASE NO. 6119
Submitted by: Vargues
Hearing Date 1-18-78

Pictured Cliffs - Chacra- Mesa Verde Production

Case 6119

Pictured Cliffs ——— X 100
Chacra — — — — — X 100
Mesa Verde · · · · · · · · X 100



Case No. 6121

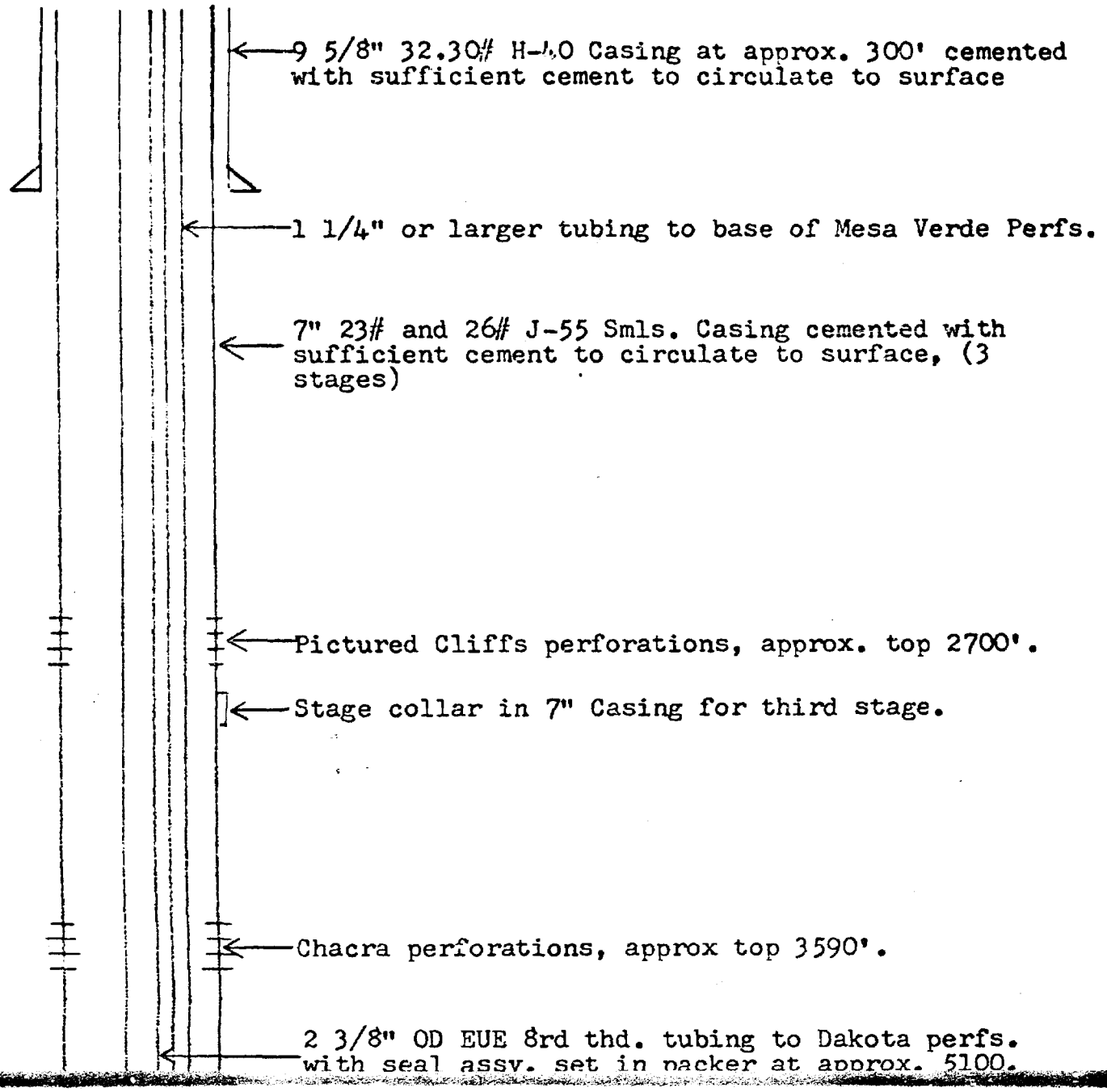
Well: Breech 368

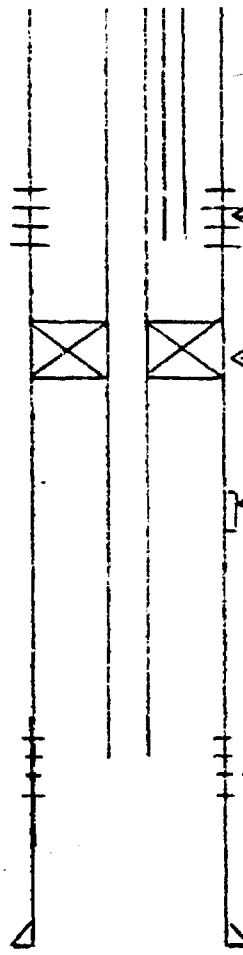
SE ¼ Sec. 23 26N 7W

DATE	PC PRODUCTION	CHACRA PRODUCTION	TOTAL
May 1977	3,292	874	4,166
June 1977	2,908	690	3,598
July 1977	1,488	1,071	2,559
Cumulative Production			10,323 MCF

Commingled	7-26-1977		
August 1977	Commingled		3,231
Sept. 1977	Commingled		1,781
Oct. 1977	Commingled		4,051
Cumulative Production			9,063 MCF
November 1977	Commingled		5,538 MCF

BEFORE EXAMINER STANDLEY
OIL CONSERVATION COMMISSION
Caulkins 15
Case 6119
Submitted by Varguer
Hearing Date 1-18-78


9 5/8" 32.30# H-40 Casing at approx. 300' cemented with sufficient cement to circulate to surface
1 1/4" or larger tubing to base of Mesa Verde Perfs.
7" 23# and 26# J-55 Smls. Casing cemented with sufficient cement to circulate to surface, (3 stages)
Pictured Cliffs perforations, approx. top 2700'.
Stage collar in 7" Casing for third stage.
Chacra perforations, approx top 3590'.
2 3/8" OD EUE 8rd thd. tubing to Dakota perfs. with seal assy. set in packer at approx. 5100.



Mesa Verde perforations, approx top 4320'

Baker Model D production packer to be run on wire line. Set at approx 5100'.

Stage collar, second stage cement, set at base of Mesa Verde Zone at approx. 5150'.

Dakota perforations, top at approx. 6970'.

TD Approx. 7300'.

CAULKINS OIL COMPANY

Proposed Dual Completion
Well No. Breech 228
830 from North and East lines
Section 18 26 North 6 West

GAS COMPANY OF NEW MEXICO

November 23, 1977

Mr. Charles E. Verquer
Superintendent
Caulkins Oil Company
P.O. Box 780
Farmington, New Mexico 87401

Dear Mr. Verquer:

This letter is to advise you that we plan to lay a pipeline to the Breech #228 well location in Section 18, 26N, 6W, Rio Arriba County, New Mexico, prior to February 1, 1978.

Sincerely,

Bruno Giovanini/nt

Bruno Giovanini
Field Superintendent

BG/nt

cc: J. V. King, Farmington
Bob Corliss, Dallas
Howard Miller, Kutz
Alvin Dean, Kutz

CAULKINS OIL COMPANY
Well No. Breech 228
Unit A Sec 18 26N 6W
Rio Arriba County, New Mex

Case No. 5119

Proposal

Dual complete Dakota and Commingled Pictured Cliffs, Chacra and Mesa Verde.

Ownership and all working intersts common for this well.

Exhibit # 1

Section map showing all Caulkins wells, proposed well and all offset wells.

Exhibit # 2

Pictured Cliffs pressure tabulations to show average Initial pressure and each year average decline.

Exhibit # 3

Mesa Verde pressure tabulations to show average Initial pressure and each year average decline.

Exhibit # 4

Chacra pressure tabulations to show average initial pressure and each year average decline.

Exhibit # 5

Tabulation of yearly average pressures from tabulations on exhibits 2-3-4.

Exhibit # 6

Pressure decline curves from tabulations exhibit # 5.

Exhibit # 7

Plat showing well location and direct offset wells in Sections 18, 7, 19 West half 8, 17 and 20, Twp. 26N 6W, Rio Arriba County, New Mexico.

Exhibit # 8

Tabulation of average pressures for Pictured Cliffs and Chacra wells, and for one Mesa Verde well shown on plat, exhibit # 7.

Exhibit # 9

Individual well records, pressure and production for Pictured Cliffs, Chacra and Mesa Verde wells shown on plat exhibit # 7.

Exhibit # 10

Tabulations of monthly Pictured Cliffs production from Caulkins Oil Co. Pictured Cliffs - Chacra dual wells.

Exhibit # 11

Tabulation of monthly Chacra production from Caulkins Oil Company Pictured Cliffs - Chacra dual wells.

Exhibit # 12

Tabulation of yearly Mesa Verde production from all Caulkins Oil Co. Mesa Verde wells.

Exhibit # 13

Tabulation of monthly Pictured Cliffs, Chacra and Mesa Verde production from exhibits 10, 11 & 12. Note: Mesa Verde production averaged from yearly tabulation.

Proposed production split on bottom of page.

Exhibit # 14

Production curves from tabulations exhibit # 13.

Exhibit # 15

Breech 368 production records.

Pictured Cliffs - Chacra commingled 7-26-77. Order No. R-5479.

Exhibit # 16

Diagram showing proposed commingling and dual completion.

Exhibit # 17

Gas Company of New Mexico letter of intent.

CAULKINS OIL COMPANY
Well No. 228

Case No. 6119

Yearly Average Pressure Tabulation

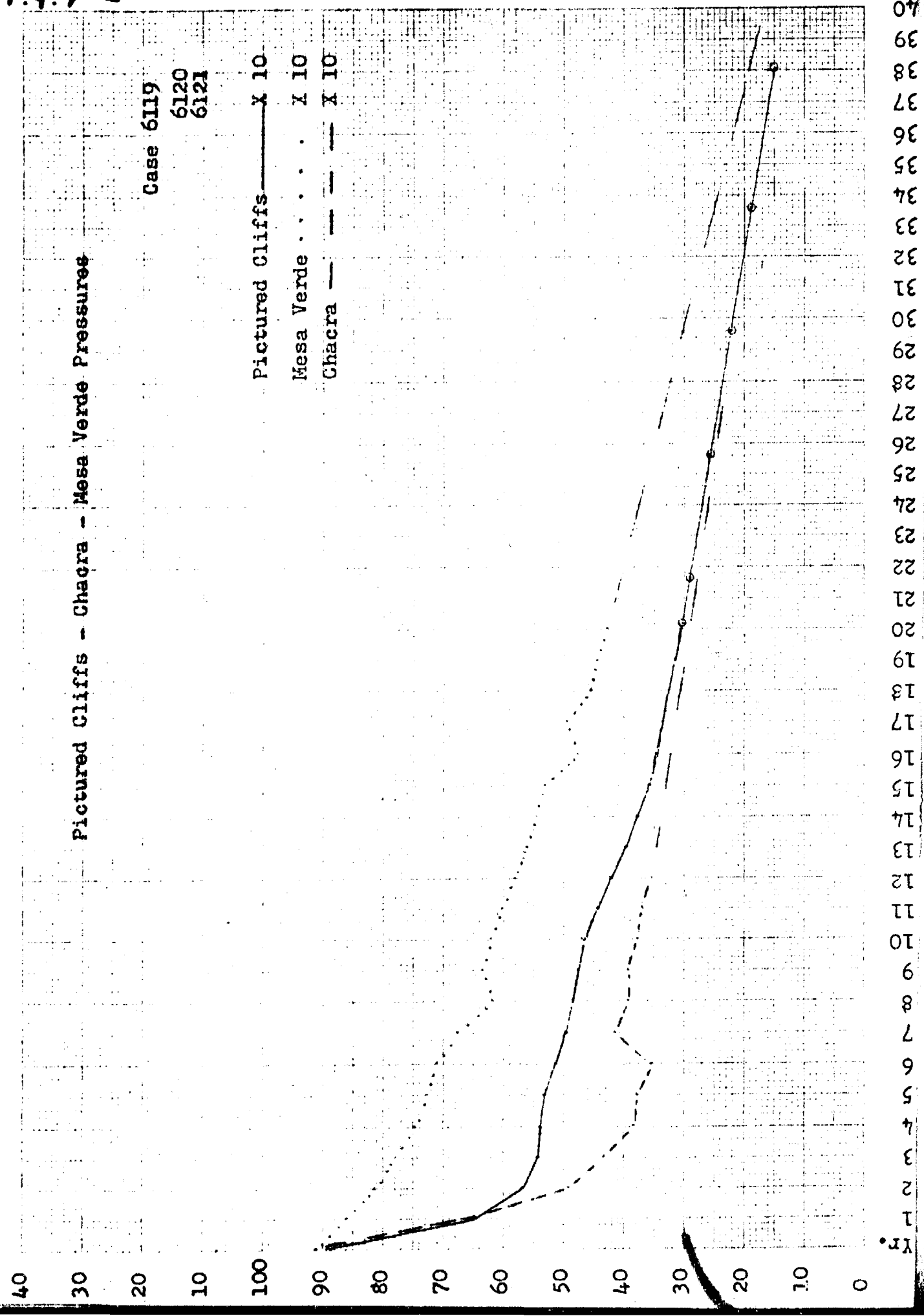
Pictured Cliffs	Chacra	Mesa Verde
892	912	1074
645	646	861
568	494	814
542	433	782
540	382	749
534	379	729
512	351	712
497	416	676
485	395	619
474	395	636
462	379	622
442	371	601
421	355	581
397		561
379		548
358		533
347		479
338		498
324		458
318		448
303		430

Case 6119
Exhibit 5

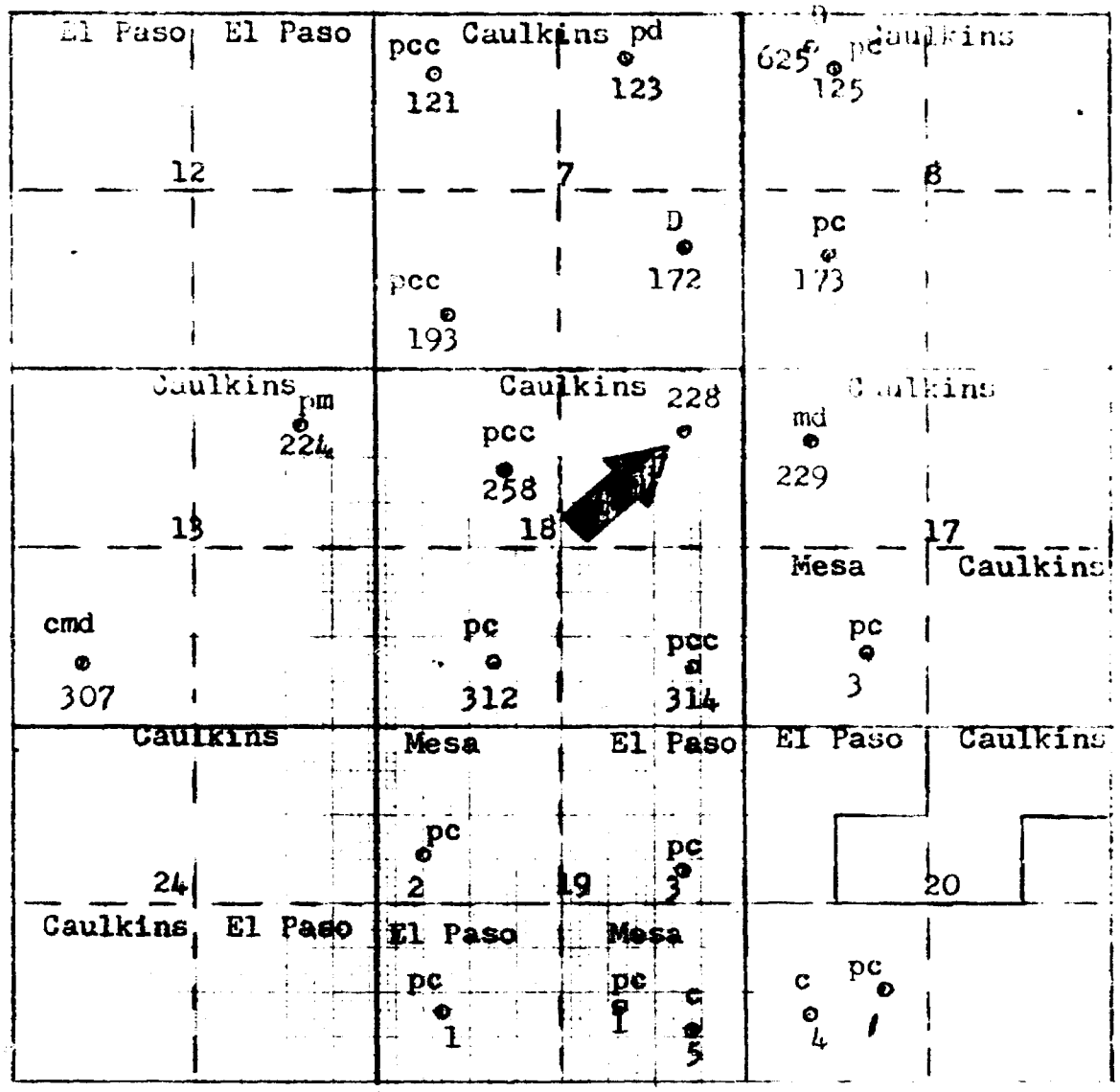
Pictured Cliffs - Chacra - Mesa Verde Pressures

Case 6119
6120
6121

Pictured Cliffs ——— X 10
Mesa Verde . . . . . X 10
Chacra — — — — X 10



CAULKINS OIL COMPANY
Breech 228
Unit A Section 18 26N 6W
Rio Arriba County, New Mexico



pc	Pictured Cliffs
pd	Pictured Cliffs - Dakota dual
pcc	Pictured Cliffs - Chacra dual
pm	Pictured Cliffs - Mesa Verde dual
cmd	Chacra - Mesa Verde Dakota Dual (Mesa Verde Dakota commingled)
md	Mesa Verde - Dakota dual

Case 6119
Exhibit 7

CAULKINS OIL COMPANY

Avg. Pictured Cliffs - Chacra - Mesa Verde Pressures

Section 7, 18, 19, W/H 8, 17 and 20

Twp. 26N 6W, Rio Arriba County, New Mex.

Year	Pictured Cliffs	Chacra	Mesa Verde
Initial	811	936	1028
1st	616	567	953
2nd	548	464	672
4th	487	392	727
5th	486	328	712
6th	462		762
7th	413		614
8th	423		572
9th	428		492
10th	413		442
11th	403		
12th	403		
13th	410		
14th	386		
15th	374		
16th	372		
17th	346		
18th	328		
19th	313		
20th	294		
21st	289		

Exhibit 8
Case 6119

Well: Breech B 123 (PC)

NE ¼ Sec. 7 26N 6W

First Delivered 1-5-65

Yearly Shut in Pressure and Cumulative Production

DATE	PRESSURE	PRODUCTION
Initial	934	
1965	791	41,444
1966	632	52,836
1967	530	47,865
1968	472	33,704
1969	418	31,504
1970	384	24,475
1971	357	27,608
1972	318	24,704
1973	315	25,253
1974	267	22,319
1975		20,747
1976	262	18,098
Cumulative Production thru 1976		370,557

Exhibit 9
Case 6119

Well: Breech A 125
NW¼ Sec. 8 26N 6W
First delivered 9-23-54
Yearly shut in pressures and cumulative production

Date	Pressure
Initial	964
1955	682
1956	727
1957	622
1958	489
1959	569
1960	614
1961	540
1962	510
1963	616
1964	584
1965	326
1966	538
1967	495
1968	466
1969	462
1970	445
1971	405
1972	379
1973	331
1974	330
1976	317

Cumulative production thru 1976 1,064 MMCF

Cumulative 1976 production 27 MMCF

Well: Breech A 173

SW¼ Sec. 8 26N 6W

First delivered 7-31-52
Disconnected 11-6-58
Reconnected 12-7-74
Pictured Cliffs Formation

Yearly shut in pressures and cumulative production

Date	Pressure
Initial	730
1954	644
1955	657
1956	397
1974	599
1975	470
1976	277

Cumulative production thru 1976 100 MMCF

Cumulative 1976 production 34 MMCF

Well: Breech A 229 (Mesa Verde Zone)

NE Sec. 17 26N 6W

First Delivered 12-28-65

Yearly Shut in Pressure and Cumulative Production

Date	Pressure	Gas Production	Oil Production
Initial	1028		
1965		4,584	
1966	953	22,328	1320
1967	672	7,368	454
1968	727	7,582	159
1969	712	6,156	68
1970	762	6,827	59
1971	Exempt	10,675	127
1972	614	15,772	201
1973	572	16,365	125
1974	492	22,361	115
1975		17,938	133
1976	442	15,470	160
	Cumulative	154,426 MCF	2921 bbls.

Well: Scott 3

SW $\frac{1}{4}$ Sec. 17 26N 6W

First Delivered 12-17-53

Yearly Shut in Pressure and Cumulative Production

DATE	PRESSURE
Initial	772 (21)
1954	337
1955	669
1956	503
1957	479
1958	413
1959	406
1960	383
1961	360
1962	360
1963	374
1964	304
1965	309
1966	359
1967	364
1968	346
1970	364
1971	374
1972	344

Exempt Marginal Since 1972

Cumulative Production thru 1976	202 MMCF
1976 Cumulative Production	5 MMCF

Well: Breech 312

SW ¼ Sec. 18 26N 6W

First Delivered 3-13-58

Yearly Shut in Pressure and Cumulative Production

DATE	PRESSURE	PRODUCTION
Initial	834	
1958	723	31,737
1959	574	27,417
1960	577	22,192
1961	552	19,340
1962	558	14,670
1963	570	14,910
1964	551	11,402
1965	507	16,867
1966	495	18,576
1967	517	20,286
1968	500	19,346
1969	470	19,563
1970	432	21,038
1971	333	19,176
1972	400	22,695
1973	391	23,823
1974	342	20,846
1975		19,811
1976	302	17,300
Cumulative Production thru 1976		380,995

WELL: Breech 258

First Delivered October, 1976

Monthly Gas Production

Date	Pictured Cliffs	Chacra
Oct. 1976	2469	173
Nov. 1976	5361	2209
Dec. 1976	6292	3366
Jan. 1977	5310	2751
Feb. 1977	5800	3177
March, 1977	5276	2879
April, 1977	4423	3300
May, 1977	4029	2798
June, 1977	3943	2032
July, 1977	4347	2380
August, 1977	4238	1994
Sept., 1977	3126	1950
Oct., 1977	3963	1913
Cumulative	58,577	30,922

Split 65% Pictured Cliffs and 35% Chacra.

Well: Buttram 2

NW ¼ Sec. 19 26N 6W

First Delivered 9-23-53

Yearly Shut in Pressure and Cumulative Production

DATE	PRESSURE
Initial	899 (7)
1954	604
1955	548
1956	468
1957	467
1958	392
1960	390
1961	431
1962	387
1963	379
1964	392
1965	384
1966	359
1967	328
1968	334
1969	292
1970	310
1971	270
1972	266
1973	290
1974	255
1976	227

Cumulative Production thru 1976 802 MMCF

1976 Cumulative Production 28 MMCF

Well: Reams # 3

NE ¼ Sec. 19 26N 6W

Yearly Shut in Pressure and Cumulative Production

DATE	PRESSURE
Initial	865 (8)
1955	877
1956	516
1957	493
1958	444
1959	403
1960	405
1961	408
1962	415
1963	406
1964	399
1965	348
1966	374
1967	421
1968	397
1969	318
1970	303
1971	285
1972	229
1973	226
1974	222
1976	250

Cumulative Production thru 1976 552 MMCF

1976 Cumulative Production 18 MMCF

Well: Reams # 1

SW $\frac{1}{4}$ Sec. 19 26N 6W

Yearly Shut in Pressure and Cumulative Production

DATE	PRESSURE
NONE REPORTED	
1954	621
1955	617
1956	638
1957	589
1958	565
1959	299
1960	455
1961	544
1962	541
1963	531
1964	528
1965	526
1966	497
1967	514
1968	469
1969	429
1970	394
1971	427
1972	456
1973	387
1974	363
1976	344

Cumulative Production thru 1976 464 MMCF

1976 Cumulative Production 14 MMCF

Well: Buttram # 1

SE ¼ Sec. 19 26N 6W

First Delivered 1-1-54

Yearly Shut in Pressure and Cumulative Production

DATE	PRESSURE
Initila	793 (11)
1954	591
1955	490
1956	438
1957	449
1958	368
1959	358
1960	353
1961	387
1962	372
1963	372
1964	385
1965	333
1966	346
1967	316
1968	314
1969	280
1970	290
1971	267
1972	226
1973	232
1974	242
1976	209

Cumulative Production thru 1976	624 MMCF
1976 Cumulative Production	18 MMCF

Well: Sanchez [illegible]
SW, Sec. 20 26N 6W
First delivered 6-1[illegible]-74
Chacra Zone
Yearly shut in pressures and cumul[illegible]

Date	Pressure
Initial	908
1975	56[illegible]
1976	4[illegible]
1977	445

Cumulative production thru 1976 [illegible]7 MMCF

1976 Cumulative production 25 MMCF

Well: Buttram 5 ([illegible])
SE¼ Sec. 19 26N 6W
First delivered 4-30-73
Chacra Zone
Yearly shut in pressure and cumul[illegible]

Date	Pressure
Initial	855
1973	499
1974	409
1975	338
1977	328

Cumulative production thru 1976 251 MMCF

1976 cumulative production 48 MMCF

Well: [illegible]
[illegible] Sec. 20 20S [illegible]
First Delivered: 11-17-58
Pictured Cliffs Formation
Yearly Shut in [illegible]

Date	Pressure
Initial	858
1959	397
1960	357
1961	357
1962	354
1963	345
1964	333
1965	313
1966	307
1967	319
1968	310
1970	300
1971	266
1972	242

Exempt since 1972

Cumulative production thru 1976 154 MMCF

Cumulative 1976 production [illegible] MMCF

CAULKINS OIL COMPANY
Pictured Clifs Prod.
Monthly

		1	2	3	4	5	6	7	8	9	10
Sanchez	5	5920	7258	3696	4021	3980	3254	3567	2177	3139	2992
Breech E	51	200	16307	13849	10590	10098	9114	8416	7268	6610	6827
Breech	217	9405	8983	8452	7227	6362	6284	5085	6204	5080	3697
Breech	258	2469	5361	6292	5310	5800	5276	4423	4029	3943	4347
Breech	330	12781	13635	11363	11289	10064	8602	7277	8000	7365	5181
Breech	332	14427	13631	12358	12936	11841	10423	8682	9982	9141	7473
Breech D	342	617	7650	4917	5214	4621	4091	3725	3579	3484	2969
Breech	352	23438	18752	17631	15292	15330	14552	14500	10673	13154	11557
Breech	354	13917	9237	8798	7698	7884	6895	5037	6080	6717	5954
Breech	368	7447	7164	7464	3514	4431	4716	4526	5450	4424	4181
Breech	382	12532	13137	13102	5951	7414	8400	7633	8886	7176	7792
Breech D	383	6995	4013	3368	2280	——	2742	3654	3518	3070	2988
Breech D	385	9901	6717	7126	4060	——	3782	6715	6094	5329	5157
Breech D	387	18678	14652	19236	10411	——	7479	17061	15677	13434	13402
		138,727	146,497	137,652	105,793	87,825	95,610	100,301	97,617	92,066	84,617
	Avg.	9909	10464	9832	7557	6273	6829	7164	6973	6576	6044

11	12	13	14	15	16	17	18	19	20	21	22
2792	2628	1840	2377	2508	2187	2046	1597	1904	1935	2045	1975
6998	4680	6994									
1363	2798	3799	5151	1546	4278	5098	4748	4304	5093	5008	3194
4238	3126	3963									
7733											
9497											
3233	2179	1249	1710	3275	3308	3160	2796	2827	2608	2374	2716
9003	4308	9529	11007	10687	10167	10165	10058	9801	8262	9971	9245
5927	4982	5950	5358	5082	4410	5088	4033	1997	1021	4235	4647
3872	4484	4172	4200	3364	3947	3095	2067	531	2455	3269	2750
5648	7139	6475	6500	4610	5721	4214	2813	818	3769	5335	4414
2839	2583	2599	2341	2424	2114	2111	1776	1363	2468	2541	2373
4930	4510	4451	4132	4321	3596	3802	3090	1665	2115	4058	3962
12855	11219	10746	10114	10405	8347	9599	7174	4207	5724	9609	10038
80928	54636	61,767	52,890	48,222	48,075	48,378	40,152	29,416	35,450	48,445	45,314
5811	4553	5147	5289	4822	4808	4838	4015	2942	3545	4845	4531

23	24	25	26	27	28	29	30	31	Cum. Total
1453	1817								69,108
									107,951
5353									118,512
									58,577
									103,290
									120,491
2814	1900	2789							30,443
7358	9816								284,256
4601	4511	3653	3964	4220	3827	4340	4265	2222	170,804
2208	3250	3228	3292	2908	1488	1500	2378	2997	114,772
3964	4707	4640	4298	3871	4171	3942	2405	5055	184,331
2228	1793	1891	1784	1607	1925	1910	1599	1910	76,806
3779	3293	3449	3219	2975	3390	3516	2572	3498	129,204
8128	8105	8598	7659	6657	7953	8203	5550	8248	309,218
41886	39192	28,248	24,216	22,238	22,754	23,411	18,769	23,730	1,877,763
4189	4354	4035	4036	3706	3792	3901	3128	3955	

Exhibit 10
Case 6119

CAULKINS OIL COMPANY
Chacra Production
Monthly

		1	2	3	4	5	6	7	8	9	10
Sanchez	5	9617	8587	5568	5216	5673	3254	4719	3600	4370	4156
Breech E	51	1120	785	226	430	371	465	457	566	396	439
Breech	217	14038	10172	8828	7113	5698	5111	4629	5061	4586	3823
Breech	258	173	2209	3366	2751	3177	2879	3300	2798	2032	2380
Breech	307	7144	2697	6370							
Breech	330	5820	6193	4491	4341	3488	2869	1798	2923	2832	634
Breech	332	56	640	411	819	918	1721	465	611	1255	313
Breech D	342	376	3985	2805	3079	2677	2316	2210	1982	1853	1661
Breech	352	3899	2886	2409	2807	2813	2353	2500	1812	1723	1614
Breech	354	13376	9392	8758	7656	7158	6505	5817	5881	6251	5432
Breech	368	3281	2646	2326	2323	1132	1308	1825	2360	1355	1215
Breech	382	4271	5011	4351	3189	3089	2261	2687	3096	2258	2477
Breech D	383	5243	3554	3641	2022	2128	2026	1354	2259	2044	2381
Breech D	385	7824	4106	3538	3402	2866	2699	2520	2475	2214	2053
Breech D	387	9904	5046	3803	2955	2357	2324	1879	1806	2039	1564
Breech E	581	3271	2135	1994	1457	1150	912	817	832	734	
		89,413	69,734	62,885	49,560	44,695	39,003	36,077	38,062	35,942	30,142
Average		5888	4358	3930	3304	2980	2602	2465	2537	2396	2153

11	12	13	14	15	16	17	18	19	20	21	22
3570	3508	2583	3454	2832	3054	3036	2390	3050	2378	3014	2969
493	186	368									
1381	4245	3778	3621	3602	2848	3099	2998	3151	3736	3182	3208
1994	1950	1913									
2012											
1243											
1670	1572	1173	1570	1514	1574	1323	1193	1221	1189	1195	1336
692	358	636	1398	1665	1034	1356	1505	1582	977	1244	1509
4972	4379	3542	4619	4214	3883	4322	3275	3359	1638	3377	4663
930	1267	1654	1600	884	663	759	843	188	864	777	1051
2195	2528	2472	2500	1893	2074	1776	574	——	423	1971	1978
2294	2127	2249	2268	2331	2022	2128	2026	1354	2259	2044	2021
2035	1829	1878	2190	2069	1928	1863	1721	921	1938	1838	1660
1417	1772	1652	1577	1806	1321	1495	1296	532	1078	1811	1340
26898	25,721	23,898	24,797	22,810	20,401	21,157	17,821	15,358	16,470	20,453	21,735
1921	2143	1991	2480	2281	2040	2116	1782	1539	1647	2043	2174

23	24	25	26	27	28	29	30	31	Cum. Total	
2097	2804								95,499	
									6302	
2910									110,818	
									30,922	
									16,211	
									37,401	
									8,452	
1213	1190	1233							43,110	
532	1932								41,286	
4087	4174	3775	4312	3793	3699	4185	3596	3122	160,875	
917	935	1331	874	690	1071	840	1781	1054	50,744	
1323	1697	2045	2197	1463	1802	1980	946	2089	67,650	
1911	1735	1881	1889	1816	1829	1765	1530	1616	67,747	
1544	1367	1472	1400	1575	1529	1475	1380	1403	72,612	
1117	982	1059	1020	1059	1162	1112	1051	1035	60,472	
									13,302	
17,651	16,816	12,796	11,692	10,396	11,093	11,357	10,284	10,319	873,403	MCF
1765	1868	1828	1949	1732	1849	1893	1714	1720		

Exhibit 11
Case 6119

Caulkins Oil Company

Mesa Verde Production

Yearly

		1	2	3	4	5	6	7	8
Breech A	229	4584	22,328	7368	7582	6156	6827	10,675	15,772
Breech	224	49,150	64,495	50,988	42,456	60,477	45,833	76,686	79,289
Breech	307	9,078	8,199	9,093	6,164	8,802	15,621	19,040	12,790
Breech F	4	11,557	20,231	10,055	9,573	20,240	11,788	9,229	6,119
Breech F	8	31,413	38,723	41,712	36,955	37,145	25,259	29,765	27,713
Breech F	12	43,597	197,968	138,223	93,534	38,089	67,057	80,812	67,125
Breech F	45	26,448	50,736	62,903	58,159	27,259	27,805	56,363	61,908
Breech E	58	67,478	84,431	30,711	65,966	65,796	45,291	66,919	53,514
State A	62	24,664	64,071	70,256	42,386	64,691	47,043	40,733	24,001
Breech E	64	28,025	52,282	67,442	50,238	26,541	17,396	10,153	27,748
Breech D	341	32,239	30,324	18,749	12,729	21,901	25,922	28,646	20,523
		328,232	633,788	507,500	425,742	377,097	335,842	429,021	396,502
Yearly Avg. Per			57,610	46,140	38,700	34,280	30,530	39,000	36,050

9	10	11	12	13	14	15	16	17	18
16,365	22,361	17,938	15,470						
80,033	84,438	87,732	91,987	89,778	85,465	83,893	62,637	68,367	
8,612	4,055								
6.032	5,196	3,690	5,552	6,659	8,379	9,424	11,780	7,853	9,470
22,573	23,160	14,542	21,051	22,501	22,074	23,695	21,103	23,563	23,827
58,398	39,505	40,510	16,353	15,633	27,451	92,437	85,622	98,781	79,917
58,242	59,724	49,291	45,650						
47,342	23,108	32,633	60,678	70,990	65,409	69,404	52,906	46,305	
26,159	49,532	50,932	46,352	49,452	44,094	36,796			
51,658	45,287	47,541	35,374	26,053					
25,261	24,561	24,396							
400,670	380,917	369,205	338,717	281,166	252,872	315,649	234,048	244,869	113,214
36,420	34,630	36,920	37,640	40,160	42,150	52,110	46,810	48,975	37,738

Case 6119
Exhibit 12

AVERAGE PRODUCTION TABULATIONS
Monthly

Case No. 6119

Pictured Cliffs	Chacra	Mesa Verde	Total	Breakdown PC	Ch	MV
9909	5588	3845	19642	50	30	20
10464	4358	3845	18667	56	23	21
9832	3930	3845	17607	56	23	22
7557	3304	3845	14706	51	22	27
6273	2980	3845	13098	48	23	29
6829	2602	3845	13276	51	20	29
7164	2465	3845	13474	53	18	29
6973	2537	3845	13355	52	19	29
6576	2396	3845	12817	51	19	30
6044	2153	3845	12042	50	18	32
5811	1921	3845	11577	50	17	33
4553	2143	3845	10541	43	20	37
5147	1991	3225	10363	50	19	31
5289	2480	3225	10994	48	23	29
4822	2281	3225	10328	47	22	31
4808	2040	3225	10073	48	20	32
4838	2116	3225	10179	47	21	32
4015	1782	3225	9022	45	20	35
2942	1539	3225	7706	38	20	42
3545	1647	3225	8417	42	20	38
4845	2043	3225	10113	48	20	32
4531	2174	3225	9930	46	22	32
4189	1765	3225	9179	46	19	35
4354	1868	3225	9447	46	20	34
4035	1828	2857	8720	46	21	33
4036	1949	2857	8842	46	22	32
3706	1732	2857	8295	45	21	34
3792	1849	2857	8498	45	22	33
3901	1893	2857	8651	45	22	33
3128	1714	2857	7699	41	22	37
3955	1720	2857	8532	46	20	34
			Avg.	48	21	31

Recommend production split all oil and 31% of gas to Mesa Verde Zone, 21% of gas to Chacra zone and 48% of gas to Pictured Cliffs zone.

Case 6119
Exhibit 13

Pictured Cliffs - Chacra- Mesa Verde Production

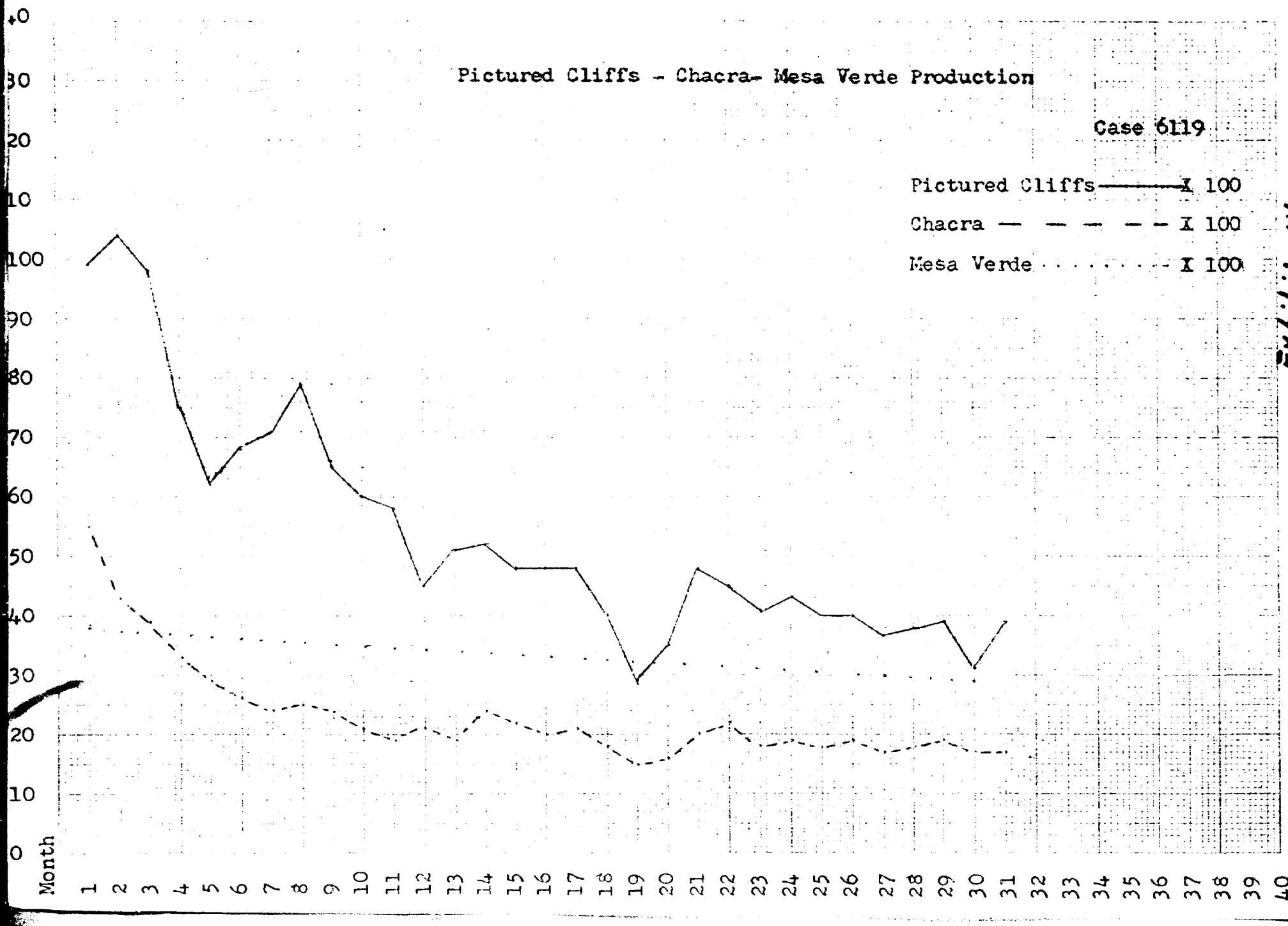
Case 6119

Pictured Cliffs ——— X 100

Chacra — — — — — X 100

Mesa Verde · · · · · · · · X 100

Exhibit 14
Case 6119



Case No. 6121

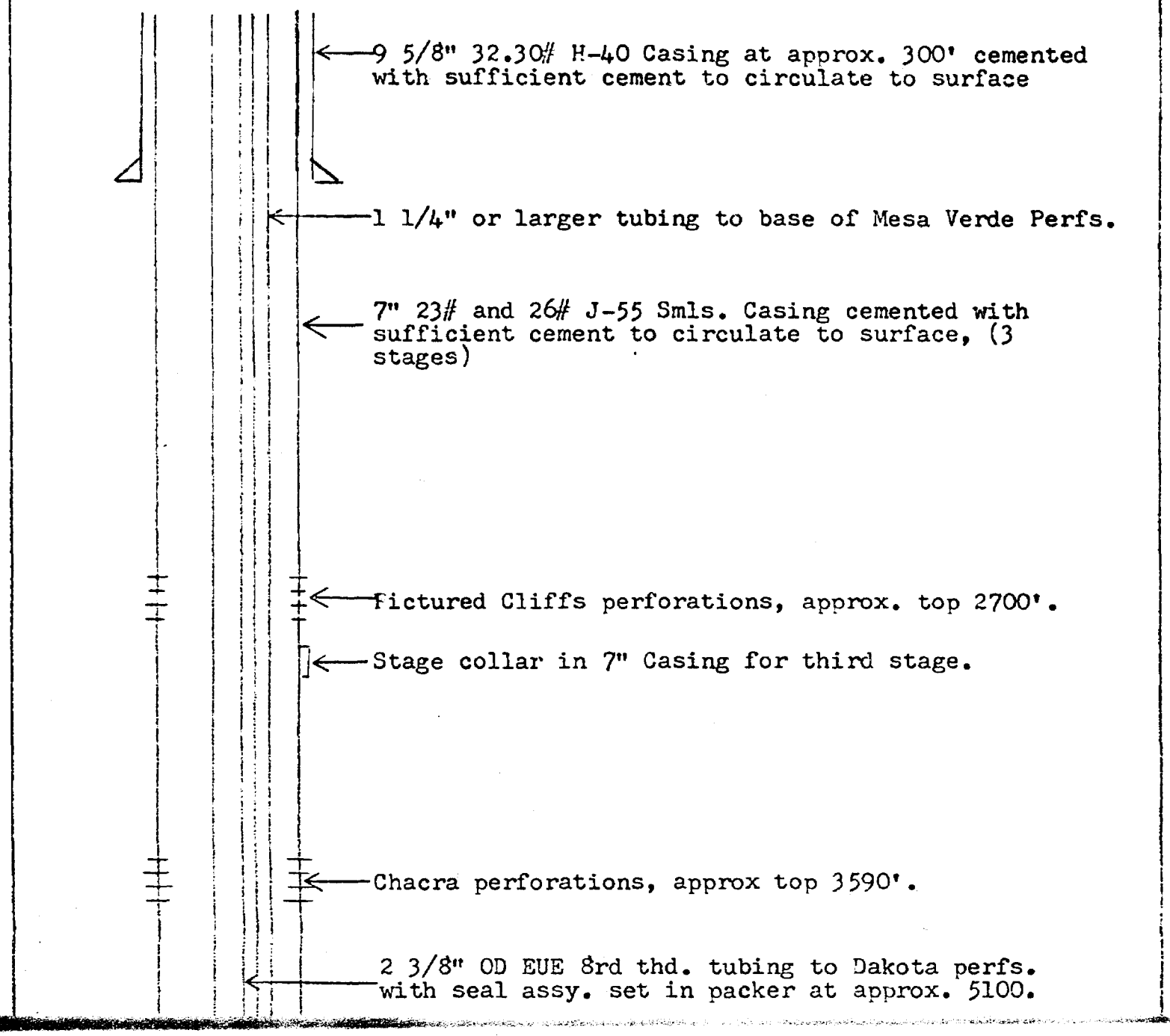
Well: Breech 368

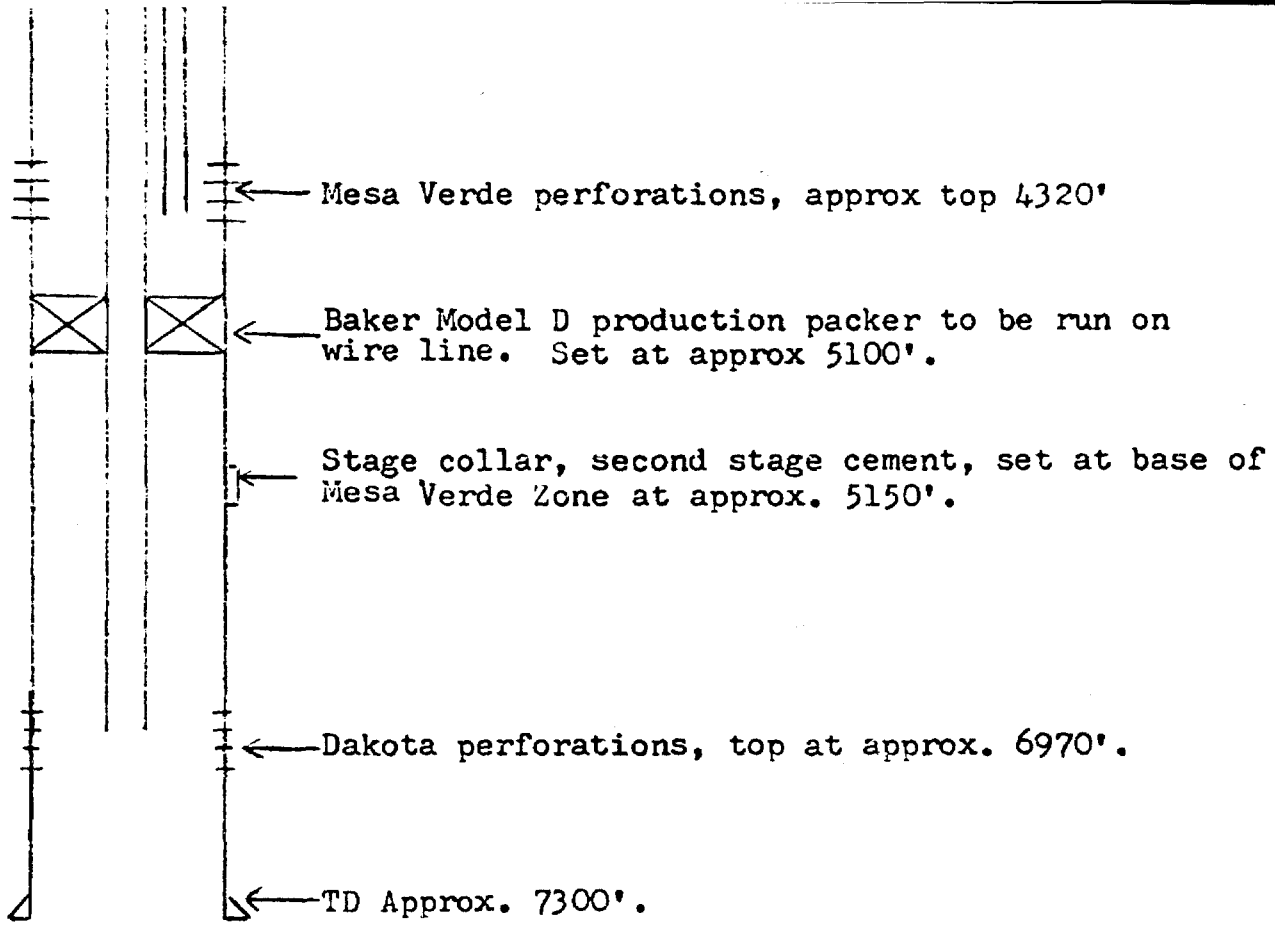
SE ¼ Sec. 23 26N 7W

DATE	PC PRODUCTION	CHACRA PRODUCTION	TOTAL
May 1977	3,292	874	4,166
June 1977	2,908	690	3,598
July 1977	1,488	1,071	2,559
Cumulative Production			10,323 MCF

Commingled	7-26-1977		
August 1977	Commingled		3,231
Sept. 1977	Commingled		1,781
Oct. 1977	Commingled		4,051
Cumulative Production			9,063 MCF
November 1977	Commingled		5,538 MCF

Exhibit 15
Case 6119


9 5/8" 32.30# H-40 Casing at approx. 300' cemented with sufficient cement to circulate to surface
1 1/4" or larger tubing to base of Mesa Verde Perfs.
7" 23# and 26# J-55 Smls. Casing cemented with sufficient cement to circulate to surface, (3 stages)
Fictured Cliffs perforations, approx. top 2700'.
Stage collar in 7" Casing for third stage.
Chacra perforations, approx top 3590'.
2 3/8" OD EUE 8rd thd. tubing to Dakota perfs. with seal assy. set in packer at approx. 5100.



CAULKINS OIL COMPANY

Proposed Dual Completion
Well No. Breech 228
830 from North and East lines
Section 18 26 North 6 West

Exhibit 16
case 6119

GAS COMPANY OF NEW MEXICO

November 23, 1977

Mr. Charles E. Verquer
Superintendent
Caulkins Oil Company
P.O. Box 780
Farmington, New Mexico 87401

Dear Mr. Verquer:

This letter is to advise you that we plan to lay a pipeline to the Breech #228 well location in Section 18, 26N, 6W, Rio Arriba County, New Mexico, prior to February 1, 1978.

Sincerely,

Bruno Giovanini /nt
Bruno Giovanini
Field Superintendent

BG/nt

cc: J. V. King, Farmington
Bob Corliss, Dallas
Howard Miller, Kutz
Alvin Dean, Kutz

Exhibit 17
Case 6119

CASE 6119: (Continued from January 4, 1978, Examiner Hearing)

Application of Caulkins Oil Company for a dual completion and downhole commingling, Rio Arriba County, New Mexico. Applicant, in the above-styled cause, seeks authority to commingle Pictured Cliffs, Chacra and Mesaverde production in the wellbore of its Breech Well No. 228, to be located in Unit A of Section 18, Township 26 North, Range 6 West, Rio Arriba County, New Mexico, and to dually complete the commingled formations and the Dakota formation in said well.

CASE 6120: (Continued from January 4, 1978, Examiner Hearing)

Application of Caulkins Oil Company for downhole commingling, Rio Arriba County, New Mexico. Applicant, in the above-styled cause, seeks approval for the downhole commingling of Chacra and Mesaverde production in the wellbores of its Breech E Wells Nos. 109 in Unit M of Section 3 and 104 in Unit P of Section 5 and its Breech A Wells Nos. 627 in Unit B of Section 8, 677 and 679 in Units L and J, respectively, of Section 9, and 207 in Unit A of Section 10, all in Township 26 North, Range 6 West, Rio Arriba County, New Mexico.

CASE 6121: (Continued from January 4, 1978, Examiner Hearing)

Application of Caulkins Oil Company for downhole commingling, Rio Arriba County, New Mexico. Applicant, in the above-styled cause, seeks approval for the downhole commingling of Pictured Cliffs and Chacra production in Sections 3, 4, 5, 7 thru 11, 13 thru 18, 21, 22, 24, and 25 in Township 26 North, Range 6 West, and Sections 13, 14, 23, and 24, Township 26 North, Range 7 West, Rio Arriba County, New Mexico.

CASE 6122: (Continued from January 4, 1978, Examiner Hearing)

Application of Caulkins Oil Company for downhole commingling, Rio Arriba County, New Mexico. Applicant, in the above-styled cause, seeks approval for the downhole commingling of Mesaverde and Dakota production in the wellbores of its Breech E Wells Nos. 64 and 58 located in Unit A of Section 1 and Section 3, its State A Well No. 62 in Unit A of Section 2, and its Breech D Well No. 341 located in Unit B of Section 21, all in Township 26 North, Range 6 West; and its Breech F Wells Nos. 4 and 45 located in Unit A of Section 33, Unit M of Section 35, both in Township 27 North, Range 6 West, Rio Arriba County, New Mexico.

CASE 6096: Continued from January 4, 1978, Examiner Hearing

Application of Texas Oil & Gas Corporation for compulsory pooling, Lea 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 14, Township 21 South, Range 34 East, Lea County, New Mexico, to be dedicated to applicant's South Wilson State Well No. 1 to be drilled at a standard location thereon. Also to be considered will be the cost of drilling and completing said well and the allocation of the cost thereof as well as actual operating costs and charges for supervision. Also to be considered will be the designation of applicant as operator of the well and a charge for risk involved in drilling said well.

CASE 6135: In the matter of the hearing called by the Oil Conservation Commission on its own motion to consider the extension of the Wagon Mound Dakota-Morrison Gas Pool in Township 21 North, Range 21 East, Mora County, New Mexico.

CASE 6136: In the matter of the application of the Oil Conservation Commission of New Mexico upon its own motion for an order for the creation and extension of certain pools in Lea, Chaves, and Roosevelt Counties, New Mexico.

(a) CREATE a new pool in Lea County, New Mexico, classified as an oil pool for San Andres production and designated as the Caprock-San Andres Pool. The discovery well is the Elk Oil Company State D.J. Well No. 1 located in Unit H of Section 2, Township 12 South, Range 32 East, NMPM. Said pool would comprise:

TOWNSHIP 12 SOUTH, RANGE 32 EAST, NMPM
Section 2: NE/4

(b) CREATE a new pool in Lea County, New Mexico, classified as an oil pool for Yates production and designated as the West Scarborough-Yates Pool. The discovery well is the Gifford, Mitchell and Wisenbaker Horse Back Well No. 2 located in Unit G of Section 33, Township 26 South, Range 36 East, NMPM. Said pool would comprise:

TOWNSHIP 26 SOUTH, RANGE 36 EAST, NMPM
Section 33: NE/4

JASON W. KELLAHIN
ROBERT E. FOX
W. THOMAS KELLAHIN

KELLAHIN and FOX
ATTORNEYS AT LAW
500 DON GASPAR AVENUE
P. O. BOX 1769
SANTA FE, NEW MEXICO 87501

DEC 27 1977

TELEPHONE 982-4315
AREA CODE 505

December 21, 1977

Mr. Joe D. Ramey
Oil Conservation Commission
P. O. Box 2088
Santa Fe, New Mexico 87501

Re: Caulkins Oil Company

Dear Joe:

Please continue the four Caulkins cases on your January 4, 1978 docket to the hearing on January 18th.

Very truly yours,

W. Thomas Kellahin

CC: Mr. Charles Verquer

WTK:kfm

6119
6120
6121
6122

Dockets Nos. 2-78 and 3-78 are tentatively set for hearing on January 18 and February 8, 1978. Applications for hearing must be filed at least 22 days in advance of hearing date.

DOCKET: EXAMINER HEARING - WEDNESDAY - JANUARY 4, 1978

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

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

CASE 6113: Application of Transocean Oil, Inc., for a unit agreement, Catron County, New Mexico. Applicant, in the above-styled cause, seeks approval for its Cibola Unit Area comprising 30,733 acres, more or less, of Federal, State, and fee lands in Townships 1 and 2 North, Ranges 14 and 15 West, Catron County, New Mexico.

CASE 6114: Application of Texas Oil and Gas Company for special pool rules or a spacing exception, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks the promulgation of special pool rules for the Shugart-Pennsylvanian Gas Pool, Eddy County, New Mexico, to provide for 320-acre spacing rather than 160 acres. In the absence of objection, this pool will be placed on the standard 320-acre spacing for Wolfcamp and Pennsylvanian gas pools rather than the present 160-acre spacing. In the alternative applicant seeks the assignment of a 320-acre gas spacing and proration unit consisting of the E/2 of Section 33, Township 18 South, Range 31 East, Eddy County, New Mexico, to a well to be drilled to the Pennsylvanian formation at a standard location thereon.

CASE 6096: (Continued from November 30, 1977, Examiner Hearing)

Application of Texas Oil & Gas Corporation for compulsory pooling, Lea 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 14, Township 21 South, Range 34 East, Lea County, New Mexico, to be dedicated to applicant's South Wilson State Well No. 1 to be drilled at a standard location thereon. Also to be considered will be the cost of drilling and completing said well and the allocation of the cost thereof as well as actual operating costs and charges for supervision. Also to be considered will be the designation of applicant as operator of the well and a charge for risk involved in drilling said well.

CASE 6115: Application of Merrion and Bayless for downhole commingling, Sandoval County, New Mexico. Applicants, in the above-styled cause, seek approval for the downhole commingling of Pictured Cliffs and Chacra production in their Jicarilla 428 Wells Nos. 3, 4, and 5, located respectively, in Unit M of Section 29 and Unit D of Section 32 and Section 31, Township 23 North, Range 4 West. Applicant further seeks blanket approval for downhole commingling of said formations in Sections 29 thru 32, Township 23 North, Range 4 West, and Sections 22 thru 26 and 35 and 36, Township 23 North, Range 5 West, all in Sandoval County, New Mexico.

CASE 6116: Application of Merrion and Bayless for salt water disposal, San Juan County, New Mexico. Applicants, in the above-styled cause, seek authority to dispose of produced salt water into the Mesaverde formation thru the perforated interval from 3374 feet to 3395 feet in applicants' Hudson Well No. 1, located in Unit D of Section 26, Township 30 North, Range 12 West, San Juan County, New Mexico.

CASE 6117: Application of Amoco Production Company for a unit agreement, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks approval for its South Culebra Bluff Unit Area comprising 1280 acres, more or less, of Federal and fee lands in Township 23 South, Range 28 East, Eddy County, New Mexico.

CASE 6118: Application of Inexco Oil Company for a unit agreement, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks approval for its Long Box Unit Area comprising 3,808 acres, more or less, of Federal and State lands in Townships 20 and 20 1/2 South, Ranges 23 and 24 East, Eddy County, New Mexico.

CASE 6119: Application of Caulkins Oil Company for a dual completion and downhole commingling, Rio Arriba County, New Mexico. Applicant, in the above-styled cause, seeks authority to commingle Pictured Cliffs, Chacra and Mesaverde production in the wellbore of its Breech Well No. 228, to be located in Unit A of Section 18, Township 26 North, Range 6 West, Rio Arriba County, New Mexico, and to dually complete the commingled formations and the Dakota formation in said well.

CASE 6120: Application of Caulkins Oil Company for downhole commingling, Rio Arriba County, New Mexico. Applicant, in the above-styled cause, seeks approval for the downhole commingling of Chacra and Mesaverde production in the wellbores of its Breech E Wells Nos. 109 in Unit M of Section 3 and 104 in Unit P of Section 5 and its Breech A Wells Nos. 627 in Unit B of Section 8, 677 and 679 in Units L and J, respectively, of Section 9, and 207 in Unit A of Section 10, all in Township 26 North, Range 6 West, Rio Arriba County, New Mexico.

CASE 6121: Application of Caulkins Oil Company for downhole commingling, Rio Arriba County, New Mexico. Applicant, in the above-styled cause, seeks approval for the downhole commingling of Pictured

Case 6119

JASON W. KELLAHIN
ROBERT E. FOX
W. THOMAS KELLAHIN

KELLAHIN and FOX
ATTORNEYS AT LAW
500 DON GASPAR AVENUE
P. O. BOX 1769
SANTA FE, NEW MEXICO 87501

TELEPHONE 982-4315
AREA CODE 505

November 30, 1977

Mr. Joe D. Ramey
New Mexico Oil Conservation Commission
P. O. Box 2088
Santa Fe, New Mexico 87501

Dear Mr. Ramey:

Enclosed are four applications filed on behalf of Caulkins Oil Company, three for commingling of production, and one for a dual completion and commingling, all in Rio Arriba County, New Mexico.

It is requested that these applications be set for hearing at the first examiner hearing in January, 1978.

Yours very truly,

Jason Kellahin

Jason W. Kellahin

CC: Mr. Charles Verquer
Mr. Arnold Raether

JWK:kfm

Enclosure

Case 6119

BEFORE THE

OIL CONSERVATION COMMISSION OF NEW MEXICO

IN THE MATTER OF THE APPLICATION
OF CAULKINS OIL COMPANY FOR AN
ORDER PERMITTING DUAL COMPLETION
AND COMMINGLING IN THE WELL BORE,
RIO ARRIBA COUNTY, NEW MEXICO

A P P L I C A T I O N

Comes now Caulkins Oil Company and applies to the Oil Conservation Commission of New Mexico for an order permitting the dual completion and down-hole commingling of its Breech Well No. 228, to be located in Unit A, Section 18, Township 26 North, Range 6 West, N.M.P.M., Rio Arriba County, New Mexico, and in support thereof would show the Commission:

Applicant proposes to drill its Breech Well No. 228 at a point 830 feet from the North line, and 830 feet from the East line of Section 18, in the above section, township and range.

Applicant proposes to drill the well to the Dakota formation, and to complete the well for production from the Pictured Cliffs, Chacra and the Mesaverde formations. The well is proposed to be dually completed to permit production from the Dakota as one zone, and the commingled production from the Pictured Cliffs, Chacra and the Mesaverde as the other zone.

Pressures in the area are such that there will be no reservoir damage as a result of the proposed completion. Only marginal production is available as to some of the zones, and the completion will permit production of oil and gas that would not otherwise be recovered, will prevent waste, and

Case 6119

correlative rights of all interest owners will be fully protected.

WHEREFORE Applicant prays that this application be set for hearing before the Commission or the Commission's duly appointed examiner, and that after notice and hearing as required by law, the Commission enter its order authorizing commingling of production as requested.

Respectfully submitted,

CAULKINS OIL COMPANY

By Jason Kellahin

Kellahin & Fox
P. O. Box 1769
Santa Fe, New Mexico 87501

Attorneys for Applicant

Case 6119

BEFORE THE

OIL CONSERVATION COMMISSION OF NEW MEXICO

IN THE MATTER OF THE APPLICATION
OF CAULKINS OIL COMPANY FOR AN
ORDER PERMITTING DUAL COMPLETION
AND COMMINGLING IN THE WELL BORE,
RIO ARRIBA COUNTY, NEW MEXICO

A P P L I C A T I O N

Comes now Caulkins Oil Company and applies to the Oil Conservation Commission of New Mexico for an order permitting the dual completion and down-hole commingling of its Breech Well No. 228, to be located in Unit A, Section 18, Township 26 North, Range 6 West, N.M.P.M., Rio Arriba County, New Mexico, and in support thereof would show the Commission:

Applicant proposes to drill its Breech Well No. 228 at a point 830 feet from the North line, and 830 feet from the East line of Section 18, in the above section, township and range.

Applicant proposes to drill the well to the Dakota formation, and to complete the well for production from the Pictured Cliffs, Chacra and the Mesaverde formations. The well is proposed to be dually completed to permit production from the Dakota as one zone, and the commingled production from the Pictured Cliffs, Chacra and the Mesaverde as the other zone.

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Case 6119

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Respectfully submitted,

CAULKINS OIL COMPANY

By Jason Kellahin

Kellahin & Fox
P. O. Box 1769
Santa Fe, New Mexico 87501

Attorneys for Applicant

Case 619

BEFORE THE

OIL CONSERVATION COMMISSION OF NEW MEXICO

IN THE MATTER OF THE APPLICATION
OF CAULKINS OIL COMPANY FOR AN
ORDER PERMITTING DUAL COMPLETION
AND COMMINGLING IN THE WELL BORE,
RIO ARRIBA COUNTY, NEW MEXICO

A P P L I C A T I O N

Comes now Caulkins Oil Company and applies to the Oil Conservation Commission of New Mexico for an order permitting the dual completion and down-hole commingling of its Breech Well No. 228, to be located in Unit A, Section 18, Township 26 North, Range 6 West, N.M.P.M., Rio Arriba County, New Mexico, and in support thereof would show the Commission:

Applicant proposes to drill its Breech Well No. 228 at a point 830 feet from the North line, and 830 feet from the East line of Section 18, in the above section, township and range.

Applicant proposes to drill the well to the Dakota formation, and to complete the well for production from the Pictured Cliffs, Chacra and the Mesaverde formations. The well is proposed to be dually completed to permit production from the Dakota as one zone, and the commingled production from the Pictured Cliffs, Chacra and the Mesaverde as the other zone.

Pressures in the area are such that there will be no reservoir damage as a result of the proposed completion. Only marginal production is available as to some of the zones, and the completion will permit production of oil and gas that would not otherwise be recovered, will prevent waste, and

Case 6119

correlative rights of all interest owners will be fully protected.

WHEREFORE Applicant prays that this application be set for hearing before the Commission or the Commission's duly appointed examiner, and that after notice and hearing as required by law, the Commission enter its order authorizing commingling of production as requested.

Respectfully submitted,

CAULKINS OIL COMPANY

By Jason Kellahin

Kellahin & Fox
P. O. Box 1769
Santa Fe, New Mexico 87501

Attorneys for Applicant

BEFORE THE OIL CONSERVATION COMMISSION
OF THE STATE OF NEW MEXICO

IN THE MATTER OF THE HEARING
CALLED BY THE OIL CONSERVATION
COMMISSION OF NEW MEXICO FOR
THE PURPOSE OF CONSIDERING:

CASE NO. 6119

Order No. R- 5634

APPLICATION OF CAULKINS OIL COMPANY FOR A DUAL COMPLETION AND DOWNHOLE COMMINGLING, RIO ARRIBA COUNTY, NEW MEXICO.

ORDER OF THE COMMISSION

BY THE COMMISSION:

This cause came on for hearing at 9 a.m. on January 18, 1978, at Santa Fe, New Mexico, before Examiner Richard L. Stamets.

NOW, on this _____ day of January, 1978, the Commission, a quorum being present, having considered the testimony, the record, and the recommendations of the Examiner, and being fully advised in the premises,

FINDS:

(1) That due public notice having been given as required by law, the Commission has jurisdiction of this cause and the subject matter thereof.

(2) That the applicant, Caulkins Oil Company, is the owner and operator of the Breech Well No. 228 to be, located in Unit A of Section 18, Township 26 North, Range 6 West, NMPM, Rio Arriba County, New Mexico.

(3) That the applicant seeks authority to commingle Pictured CLiffs, Chacra and Mesaverde production within the wellbore of the above-described well. ~~and to doubly complete the commingled formations and the Dakota formation in said well~~.

(4) That from the Pictured Cliffs, Chacra, and Mesaverde zones, expected to be the subject well is capable of low ~~marginal~~ production only.

~~(5) That from the Chacra zone, the subject well is capable of low marginal production only.~~

(5) That the proposed commingling may result in the recovery of additional hydrocarbons from each of the subject pools, thereby preventing waste, and will not violate correlative rights.

~~(6) That from the Mesaverde zone, the subject well is capable of low marginal production only.~~

(6) That the reservoir characteristics of each of the subject zones are such that underground waste would not be caused by the proposed commingling provided that the well is not shut-in for an extended period.

(7) That to afford the Commission the opportunity to assess the potential for waste and to expeditiously order appropriate remedial action, the operator should notify the Aztec district office of the Commission any time the subject well is shut-in for 7 consecutive days.

(8) That in order to allocate the commingled production to each of the commingled zones in the subject well, 50 percent of the commingled gas production should be allocated to the ~~Mesaverde~~ Pictured Cliffs zone, ~~and~~ 20 percent of the commingled gas production to the ~~Pictured Cliffs zone~~ Chacra, and 30 percent of the commingled gas and 0.1 percent of the commingled ~~gas~~ production to the ~~Chacra zone~~ Mesaverde zone.

(9) ~~(8)~~ That the applicant, Luther, seeks authority to complete ~~its~~ Said Breech Well No. 228, ~~located in Unit ____ of Section ____, Township ____ North, Range ____ West, NMPM, ____ County, New Mexico~~, as a dual completion ~~(combination)~~ (conventional) to produce gas ~~(tubingless)~~ oil from the commingled Pictured Cliffs, Chacra, and Mesaverde zones and gas from the Dakota zone through parallel strings of tubing with separation of the commingled zones from the Dakota zone to be achieved by means of a packer

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

(11) ~~(10)~~ That approval of the subject application will prevent waste and protect correlative rights.

(1) That the applicant, Caulkins Oil Company, is hereby authorized to commingle Pictured Cliffs, ~~and~~ Chacra and Mesaverde production within the wellbore of the Breech Well No. 228, located in Unit A of Section 18, Township 26 North, Range 6 West, NMPM, Rio Arriba County, New Mexico, ~~and to dually complete the commingled formations and the Dakota formation in said well~~

(2) That 50 percent of the commingled gas production shall be allocated to the ~~x~~ Pictured Cliffs zone, ~~and~~ 20 percent of the commingled gas production shall be allocated to the Chacra zone, and 30 percent of the commingled gas production and 100 percent ~~of the~~ commingled oil production shall be allocated to the Mesaverde zone.

(3) That the operator of the subject well shall immediately notify the Commission's Aztec district office any time the well has been shut-in for 7 consecutive days and shall concurrently present, to the Commission, a plan for remedial action.

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

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

IT IS FURTHER ORDERED.

(1) That the applicant, ~~,~~ is hereby authorized to complete ~~its~~ said Breech ~~"C"~~ Well No. 228, ~~located in Unit of Section , Township~~ ~~North~~ South Range ~~West~~ East NMPM, ~~County, New Mexico~~, as a dual completion (conventional) (~~combination~~) (~~tubingless~~) to produce ~~oil~~ gas from the commingled Pictured Cliffs, Chacra, and Mesaverde zones through a string of 1¼-inch or larger tubing and gas from the Dakota zone through a string of 2⅜-inch tubing ~~,~~ set in a packer located at ~~,~~ an approximate depth of 5100 feet.

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

PROVIDED FURTHER, that the applicant shall ~~segregate~~ take packer-leakage tests upon completion and annually thereafter during the ~~Annual Oil-Gas~~ Deliverability Test Period for the Basin Dakota Pool.

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

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