CASE NO.

6396

APPliCation,
Transcripts,
Small Exhibits,

ETC.



ENERGY AND MINERALS DEPARTMENT OIL CONSERVATION DIVISION

STATE LAND DIFFICE BUILDING SAN (A FE, NEW MEXICO 67501 (505) 827-2434

January 10, 1980

Mr. Guy Buell, Attorney Amoco Production Company P. O. Box 3092 Houston, Texas 77001 CASE NO. 6396 ORDER NO. R-6225

Applicant:

Amoco Production Company

Dear Sir:

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

Re:

JOE D. RAMEY
Director

JDR/fd

Copy of order also sent to:

Hobbs OCD x
Artesia OCD x
Aztec OCD

Other____

STATE OF NEW MEXICO ENERGY AND MINERALS DEPARTMENT OIL CONSERVATION DIVISION

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

> CASE NO. 6396 Order No. R-6225

APPLICATION OF AMOCO PRODUCTION COMPANY FOR POOL CREATION AND CONTRACTION, LEA COUNTY, NEW MEXICO.

ORDER OF THE DIVISION

BY THE DIVISION:

This cause came on for hearing at 9 a.m. on December 7, 1978, at Santa Fe, New Mexico, before Examiner Richard L. Stamets.

NOW, on this $g_{\pm h}$ day of January, 1980, the Division Director, having considered the record and the recommendations of the Examiner, and being fully advised in the premises,

FINDS:

That the applicant's request for dismissal should be granted.

IT IS THEREFORE ORDERED:

That Case No. 6396 is hereby dismissed.

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

STATE OF NEW MEXICO OIL CONSERVATION DIVISION

JOE D. RAMEY

Director

s e'a L fa/



Amono Production Company

Houston Region
500 Jefferson Building
Caron ATION Constant Programme State Programme Caron State Programme Sta

Santa Fe

J. R. Barnett Regional Engineering Manager

January 3, 1979

File: TBM-986.51NM-1302

Re: Case No. 6396

Pool Creation and Contraction

House Drinkard Pool Lea County, New Mexico

Department of Energy and Minerals Oil Conservation Division P. O. Box 2088 Santa Fe, NM 87501

Attention: Mr. R. L. Stamets

Gentlemen:

The following are the latest available API gravities at 60° F for Amoco operated wells in the House-Drinkard Pool, Lea County, New Mexico:

Cone "B" No. 2 60.2 Cone "A" No. 1 36.1 Cone "B" No. 1 36.3 House "C" No. 1 36.1 State "U" No. 1 36.3

Please include this information in Case No. 6396.

Yours very truly,

Il Barnetton

JEP:sam

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STATE OF NEW MEXICO ENERGY AND MINERALS DEPARTMENT OIL CONSERVATION DIVISION State Land Office Building Santa Fe, New Mexico 7 December 1978

EXAMINER HEARING

IN THE MATTER OF:

CASE

Application of Amoco Production Company for pool creation and contraction, Lea County, New Mexico.

6396

BEFORE: Richard L. Stamets

TRANSCRIPT OF HEARING

APPEARANCES

For the Oil Conservation

Lynn Teschendorf, Esq.

Division:

Legal Counsel for the Division

State Land Office Bldg. Santa Fe, New Mexico 87501

For the Applicant:

Guy T. Buell, Esq.

Amoco Production Company

P. O. Box 3092

Houston, Texas 77001

J. A. PEASE

Direct Examination by Mr. Buell

Cross Examination by Mr Stamets

EXHIBITS

Applicant Exhibit One, Map Applicant Exhibit Two, C-109 Applicant Exhibit Three, Log Applicant Exhibit Four, Graph Applicant Exhibit Five, Graph Applicant Exhibit Six, Water analysis Applicant Exhibit Seven, Cross section

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	MR.	STAMETS:	At	this	time	we	will	call	Case
6396.									

MS. TESCHENDORF: Case 6396. Application of Amoco Preduction Company for pool creation and contraction, Lea County, New Mexico.

MR. STAMETS: Call for appearances in this case.

MR. BUELL: For Amoco Production Company, my name is Guy Buell.

MR. STAMETS: Any other appearances? I'd like to have the witness stand and be sworn, please.

(Witness sworn.)

J. A. PEASE

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

DIRECT EXAMINATION

BY MR. BUELL:

- Q Mr. Pease is our only witness, Mr. Examiner.
 Would you state your complete name, by whom you're employed,
 and in what capacity and at what location, please?
- A James A. Pease, Amoco Production Company in Houston, Texas, as a staff engineer.
 - Mr. Pease, you've testified before this body

on many previous occasions and your qualifications as a petroleum engineer are a matter of public record, are they not?

MR. BUELL: Any questions, Mr. Examiner?

MR. STAMETS: The witness is considered qualified.

- Q (Mr. Buell continuing.) In connection with your testimony here today, would you look first, please, at our Exhibit Number One? What is that exhibit?
- A. Exhibit Number One is a structure contour map for the House Drinkard Pool. The contours are on the top of the Drinkard formation.
- Q All right, sir, how have you identified the wells in this area that either, one, are producing or have produced from the Drinkard formation; or have penetrated the Drinkard formation and given us geological data by that penetration?
 - A These are designated by orange dots.
- All right, sir, we're asking for pool contraction, establishing of a new pool, and to contract the House Drinkard Oil Pool we're going to have to delete some acreage from the horizontal limits of that pool. How have you delineated the acreage you've recommended to be deleted from the House Drinkard Oil Pool?

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	A.	The	acreage	that	we'r	e r	recommending	be	deleted
is	outlined by	blue	tape or	n Exh:	ibit (One	· •		

- Q All right, sir, and I believe this acreage has already been described in the docket that Ms. Teschendorf just read.
 - A That's correct.
- Q All right, rather than burden the record with describing the acreage that we're asking to be deleted, let me go on to the next question.

How have you defined or outlined the horizontal limits of the new pool that you're requesting the Commission here today to designate and set up?

- A This area is outlined by yellow tape on Exhibit Number One.
 - Q All right, sir, that's 160 acres, is it not?
 - A That's correct.
- Q I notice there is a well on that 160 acres that you're asking to be designated as a new pool. What is the name of that well?
- A This is the Amoco Production Company Cone B Well No. 2.
 - Q Is that an oil well or a gas well?
 - A. It is a gas well.
- Q All right, sir, and you highlighted that well on Exhibit One by a red arrow.

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Q What is the significance of the orange area pointing to a well immediately to the south?

A. This is a well in which we recently obtained a bottom hole pressure buildup test. This is the Amoco Cone B No. 1.

Q That's a current producing oil well in the House Drinkard Oil Pool?

A. Yes, sir.

Q All right, sir, I notice in the central portion of your Exhibit One there is a line, a green dotted line, running west to east that connects four wells. What is the significance of that line?

A. This represents the line of section, of the log cross section which will be Exhibit Number Seven.

Q That's going to be a later exhibit.

A That's correct.

All right, sir, do you have any other comments on Exhibit Number One?

A No, sir.

Q. Turn now, if you would, to what has been identified as our Exhibit Number Two. What is that exhibit?

A. Exhibit Number Two is a copy of New Mexico
Oil Conservation Division Form C-109, which has been completed as application for creation of a new pool.

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MR. BUELL: Mr. Examiner, we didn't know whether or not, since we're not asking for a discovery allowable for a gas well, whether or not this form was entirely appropriate or required, but in view of the fact that it does have a lot of data on it that we thought would be of benefit to the Commission, to resolve all doubts we are filling it.

All the data on here are more or less selfexplanatory, Mr. Pease?

- A. I believe so.
- Q Do you have any comments on any of it?
- A No, sir.
- Q All right. Turn to Exhibit Three, if you will. What is that exhibit?
- A Exhibit Three is a copy of the compensated neutron formation density log on the Amoco Cone B No. 2.

 It's a complete log and includes both the 2-inch scale and the 5-inch scale, and on the 5-inch scale the producing formations in the area of this well have been shown.
- Q All right, sir. Briefly state for the record some of the zones above the Drinkard. This well is completed in the Drinkard formation, is it not?
 - A. Yes, sir.
- Q. Some of the formations above the Drinkard that are productive from other wells in this area. You might

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as well start with the most shallow and work your way down to the Drinkard, if you would.

- A All right. The shallowest zone is the San Andres and it occurs at 4296 in this well.
- Q. And you have identified in what manner the top of the San Andres zone on this log?
- A. It's shown by a green line on the 5-inch scale section.
 - Q What do we come to next going down the hole?
- A. Next we have the Glorieta at 5648 feet.

 Then the Blinebry is 6100 feet; the Tubb at 6620; the

 Drinkard is topped at 6881; and also producing in this field

 but not penetrated by this well is the Abo formation. It

 has produced in the past, that is.
- Q All the producing formations in this area that were penetrated, you have identified the top of that formation, as you did the San Andres, with a green horizontal line.
 - A. That's correct.
- Q Do you have any other comments on Exhibit
 Three?
- A. I believe also on Exhibit Three inside the depth column by little red brackets we've shown the perforated -- perforated interval of the Cone B No. 2.
 - Q All right, sir. Turn now, if you would, to

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what has been identified as our Exhibit Four. What is that exhibit?

A Exhibit Four is a copy of a bottom hole pressure survey report run by John West Engineering Company out of Hobbs, New Mexico, on the Cone B No. 2. The graph there is a plot of bottom hole pressure versus depth and the most significant things are shown on the upper righthand portion and that would be the pressures at the various depths.

- Q We're going to be talking about the Cone B

 2 and the Cone B 1. So everybody can keep it straight, the

 Cone B 2 was our gas well that we feel has penetrated a new
 gas field.
 - A. That's correct.
- And the B 1, the Cone B 1, is an offset oil well that's been producing for many years.
 - A. That's correct.
- Q All right, sir. What is the bottom hole pressure on our Cone B 2, the gas well?
- A. The measured pressure at a depth of 6970 feet was 2006 psi.
- Q All right, sir. We'll be referring to this a little later, but let's go on now, if you would, to our Exhibit Number Five. What is that exhibit?
- A. Exhibit Five is -- contains three pages. The first page is the graph of the bottom hole pressure build-

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up test on the Cone B No. 1, which is a pumping oil well.

- Q That's a well immediately south of the Cone
 B 2 and the well is identified on Exhibit One with an orange
 arrow.
 - A. That's correct.
- Q What is that about, it looks to be about 1320 feet south of the Cone B 2.
 - A. Yes, sir.
- Q All right, sir. Do you want to go ahead now and discuss what's on the other two pages of the three-page exhibit?
- A. Okay. The well was shutin for a total of about 250 hours and it did not reach a stabilized bottom hole pressure during this time, so pages two and three, then, represent calculations made which were used to determine what time we should extrapolate this bottom hole pressure to obtain an average pressure for the 40-acre drainage area of the well.

This time is shown on the last page of 654 hours, and the pressure at this time would be 397 psi.

All right, sir, now on page one of this exhibit you have shown the static buildup pressure and the time period in which you projected it would take to build-up in red as an addenda to the printed portion of the first page.

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- Q And this calculation that was used to make the extrapolation of static or full buildup, is it a common formula that is used?
 - A In the industry, yes, sir.
- Do you see any sense in burdening the record
 with going through all the steps?
 - A No, sir.
- Q. And I believe your conclusion was that in 654 hours it would reach static condition with a bottom hole pressure of 397 psi.
 - A That's correct.
 - Q. Approximately how many days is 654 hours?
 - A. Let's see, 27 and 1/4 days.
- All right, sir, when you compare the pressure shown on our Exhibit Four for our Cone B 2 of over 2000 pounds with this buildup pressure of this producing well 1320 feet south of only 397, there is a dramatic difference, is there not?
 - A Yes, sir.
- Q Let me ask you this. About what depth is our Cone B 2, the gas well?
 - A It's perforated from 7050 to 7080 feet.
- Q Would you anticipate if you were under normal conditions in a normal area that the absolute virgin bottom

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hole pressure of a reservoir that deep would be 2000 pounds or in excess of 2000 pounds?

- A. Normally you would anticipate around 3000 pounds; maybe a little bit higher than that.
- Q All right, how do you account for the fact that the bottom hole pressure in the Cone B 2 is only 2000, if you can account for it?
- Mell, there would be a couple explanations.

 One would be there could have been some well in the past
 that produced from this formation that we can't locate and
 the other would be, of course, it could have depleted some
 during the test. The well was tested for about ten days
 before this well was shutin for bottom hole pressure buildup.
- Q. Are there other data that show the separate nature of our Cone B No. 2 gas well with the older Drinkard oil production in the House pool?
 - A. Well, we had --
- Other than the 1600 pound pressure differential.
 - A We have Exhibit Seven, the log cross section.
- Q All right, sir. Do you have any other comments on Four and Five, our two pressure exhibits?
 - A. No, sir.
 - Q Turn then, if you would, to Exhibit Six. What

is that?

A. Exhibit Six is a series of water analyses done by the Halliburton Services. It consists of three pages. On the first page are two different analyses from the water from the Cone B No. 2.

On the second page is a water analysis for water produced by the Cone A 1 and the Amoco Cone B No. 1.

Q. Well, now, Mr. Pease, we know where the Cone B l is. It's just south of our B 2 and we talked about it before. Where is Cone A 1? Is it in the southeast of the northwest of Section 12?

A Yes, it's the southeast of the northwest of 12.

MR. BUELL: I thought, Mr. Examiner, you might want to spot that on your Exhibit One to see the geographical spread of these water samples.

Q All right, what well or wells are included on page three of our Exhibit Number Six?

which is located in the southeast of the northeast of Section 11, and it's the last well on the log cross section.

And the other well on this page three is the Amoco State

U No. 1, which is located in the southeast of the southeast of Section 2, which would put it just due north of the House C No. 1.

Q Mr. Pease, in the interest of time, we won't go through with each component of, or each element of these water samples, but in going through them did you notice some of the elements that there was a distinct difference between the content in our Cone B No. 2, the gas well, from these other oil wells?

A Yes, sir.

Q Why don't, for the record -- what were those components or elements?

A. Well, the calcium ions, the chloride ions, the sulphates and the biocarbonates.

Q. Very, very rapidly give the calcium that we found in the two samples of our Cone B 2 with the range of the calcium from the other four wells.

A. In the Cone B 2 the calcium ion ranged from 9000 to 12,500 parts per million. In the other four samples in the other four wells it ranged from 15,000 to 18,500 parts per million.

Q. All right, sir, let's go to the chlorides.

A. On the chlorides ions in the Cone B 2 the two samples range from 162,000 to 170,000 whereas in the other samples it ranged from 97,000 to 109,000.

Q The sulphate?

A. The sulphates range from 2200 to 2300 parts per million in the Cone B No. 2 whereas in the other four

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wells it ranged from 1400 to 1500 parts per million.

I believe you said you also noticed a difference in bicarbonates.

Yes, sir, the biocarbonates range from 145 to 160 parts per million in the Cone B 2 whereas the other four wells this was 220 to 280 parts per million.

Do these data, as the 1600 pound pressure differential, would they also indicate that the Cone B 2 is producing from an accumulation of gas that is not in communication with the Drinkard oil in the old House pool?

Yes, sir.

All right, sir. Do you have any other comments on those samples?

No, sir.

Are you ready for the cross section now, Mr. Pease?

Yes, sir.

MR. BUELL: Mr. Examiner, that lays on the green dots on our Exhibit One and it's generally a west to east section.

All right. Would you comment very briefly on our Exhibit Number Seven, Mr. Pease?

Well, as you pointed out, Exhibit Seven is the log cross section. The discovery well for the new gas zone is the well on the right, the Cone B Well No. 2, and

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the other three wells are -- two of them are currently producing and the second well from the lefthand has been abandoned; at least the Drinkard zone has.

- Q Do you have the latest test data for each well plotted at the bottom of the log?
- A Yes, sir, it's listed at the bottom of the log.
- Now, I notice there are two horizontal lines running across the extent of the exhibit. What are they, Mr. Pease?
- A. Well, this would be a structural cross section and the top line represents a minus 3200; that's the dashed line.

The second line represents the top of the Drinkard in these four wells.

- Q Have you highlighted on this exhibit the completion intervals of the four wells that are shown hereon?
- A. Yes, sir, the three oil wells have been shown by the green bars and the gas interval for the gas well has been highlighted by yellow.
- Q On this structural cross section, Mr. Pease, what do you see when you compare the structural position of the gas completion in our Cone B 2 with the --

MR. STAMETS: Is that the one with all che pretty colors?

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MR. BUELL: Oh, gosh almighty, Mr. Examiner, I kept yours and you got mine.

MR. STAMETS: Thank you, sir.

- Q Mr. Pease, I think I'd asked you when you compared the structural position of the gas completion in our Cone B 2 with the oil completion shown on this structural cross section, what do you see?
- A Well, we see we have a gas productive interval here that's lower than the oil producing interval in the two wells on the left and is within the oil producing interval in the well, the Cone A No. 1.
- Q Does this in addition to our pressure date, in addition to our water sample analyses, from a geological standpoint does this indicate separation of the Cone B 2 gas from the House Drinkard oil pool?
 - A Yes, sir.
- Q. You just don't find gas below oil in a common accumulation of hydrocarbons, do you, Mr. Pease?
 - A. No, sir.
- Q Do you feel that our recommendation here today will serve conservation by allowing the efficient production of the gas that we've discovered in our Cone B 2?
 - A Yes, sir.
- Q Do you see how it can in any way adversely affect the correlative rights of any of the owners of interest

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in this area?

A. No, sir.

Q Do you have anything else you'd care to add at this time?

A. No.

MR. BUELL: May it please the Examiner, that's all we have by way of direct. I would like to formally offer our Exhibits One through Seven inclusive.

MR. STAMETS: These exhibits will be admitted.

CROSS EXAMINATION

BY MR. STAMETS:

Q. Mr. Pease, starting in reverse order here, of the exhibits, looking at the cross section first, it would appear as though the gas zone in your Cone B No. 2 is about 170 feet below the top of the Drinkard.

A. Yes, sir.

Q. Okay, when you come to the left then to the Cone A 1, it would also appear that only the very top of this zone has been penetrated in the Cone A 1.

A. That's correct.

Q. Do you have any evidence that that portion of the reservoir that's open in the Cone A l that's in the Cone B 2 that is producing or has ever produced in the Cone A l?

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	A.	Well,	the Co	ne A l	is an	open h	ole com	mpletion
The	casing is	set the	ere to	7032 fe	et.	I'm not	aware	of any
surv	veys which	would	indicat	e where	the	product:	ion is	coming
fron	n, from th	at open	hole s	ection.	•			
	Q.	Okay,	now ha	ve you	exami	ned the	perfor	rated

- Okay, now have you examined the perforated interval, or the producing interval, in the other wells in the House Drinkard to determine whether or not this zone in your -- the B 2 zone is producing in any of those other wells?
- A Not to my knowledge. I haven't looked at all of the logs.
- Q Okay. Your Exhibit Number One shows some Drinkard producing wells in the west half of Section 6.
 - A. Those have been abandoned.
 - Q Those have all been abandoned?
 - A Yes, sir.
 - Q Those are no longer producing?
 - A. That's correct.
 - Q What was the pool name for that pool?
- A. It was the House Drinkard. One of the wells was an Amoco well and the other well was a Wilson well.
- that they would still be -- that the pool boundary still goes out there or has that been contracted?
 - A. It has not been contracted.

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	Q	Okay, does your proposal here leave a window
in the	House	Drinkard or is it continuous from the producing
wells	in the	southwest to the old abandoned wells in the
northe	east?	
	Δ.	It's continuous

MR. BUELL. We're just taking the wedge out of it, Mr. Examiner, we're not isolating any wells that are currently producing in the House Drinkard oil pool or any wells that had previously produced from the House Drinkard oil pool, except the three abandoned wells and our new discovery well that are shown within the blue outline on Exhibit one.

- How old is this House Drinkard pool?
- I don't know the exact discovery date but some of the wells were drilled in the early '50s.
 - So it is quite an old pool?
 - Yes.
- Is this situation that you've discovered here unique or do you periodically stumble across this in southeast New Mexico?
 - This is the first one that I'm aware of. MR. BUELL: It would be unique to Mr. Pease.
- Do you have any indication -- talking about the pressure, now, do you have any indication that you're going to have the kind of a pressure drawdown that -- that

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you theorize may be the reason why you only got 2000 pounds instead of 3000?

A Well, the well tested the almost 3-million cubic feet a day and the flowing tubing pressure, I believe, was about 650 pounds. The other Amoco wells in this pool, the oil wells are on pump. I believe the records show that there are two flowing wells, but all of the existing oil wells are right at stripper rates. I believe the highest average rate is 7 barrels a day.

- Q I guess the final question is why do you all want this -- what is the bottom line, as they are wont to say these days?
- A. Under the existing rules the well would be restricted, I believe, to about 300 Mcf a day, if it was produced in the House Drinkard.

MR. BUELL: I intended to include that as a question, Mr. Examiner, and overlooked it.

- Q And have you examined the production rate on all the wells in the House Drinkard now?
 - A Yes, sir.
- Q. Are any of them capable of producing the maximum amount of oil allowed?
 - A. No, nor the maximum gas.
- Q So they are all producing less than would be allowed by either a GOR rule or oil rules.

BALLY WALTON BOY

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Is there any way, in your opinion, that production at unrestricted rates from the Cone B 2 Well could affect the other wells in the pool?

- A No, sir.
- Q Does Amoco have any plans to develop any additional wells in the area?
 - A. Not that I'm aware of.
- Q If the Division determined that this was a problem that needed a little further study, or which needed some periodic review, would Amoco object to such review or such additional data?
 - A No, sir.

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

Anything further in this case?

MR. BUELL: Mr. Examiner, that's all we have.

MR. STAMETS: The case will be taken under

advisement.

(Hearing concluded.)

REPORTER'S CERTIFICATE

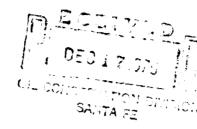
I, SALLY WALTON BOYD, a Court Reporter, DO HEREBY CERTIFY that the foregoing and attached Transcript of Hearing before the Oil Conservation Division was reported by me; that said transcript is a full, true, and correct record of the hearing, prepared by me to the best of my ability, knowledge, and skill, from my notes taken at the time of the hearing.

Sally W. Boyd, C.S.R.

I do hereby certify that the foregoing is a complete remain of the productions in the examiner hearing of the p. 6376 heard by meron 12 7 19 75

Oll Conservation Division





Amoco Production Company

Houston Region 500 Jefferson Building Post Office Box 3092 Houston, Texas 77001

Diane Type Dismissal Plas

J. R. Bernett Regional Engineering Menager

December 10, 1979

File: JCA-986.51NM-4160

Re:

Case No. 6396

Creation of New Pool

House Lower Drinkard Gas Pool

Lea County, New Mexico

Energy and Minerals Department Oil Conservation Division P. O. Box 2088 Santa Fe, NM 87501

Attention: Mr. Joe D. Ramey

Dear Mr. Ramey:

Case No. 6396 concerned Amoco Production Company's request for contraction of the House Drinkard Oil Pool and creation of a new pool (House Lower Drinkard Gas Pool) for Amoco's Cone "B" Well No. 2, located in the NE/4 Sec. 12, T-20-S, R-38-E, Lea County, New Mexico. The case was held on December 7, 1978, but action was delayed at Amoco's request pending additional drilling in the area. Since the hearing, the productivity of the Cone "B" Well No. 2 has declined from a potential of approximately 2.9 MMCFD to 320 MCFD. Amoco believes contraction of the House Drinkard Oil Pool and creation of a new gas pool is not justified at this time.

Amoco Production Company therefore respectfully requests Case No. 6396 be dismissed.

Yours very truly,

P. Barnetter

JCA/rw

Dockets Nos. 40-78 and 41-78 are tentatively set for hearing on December 20, 1978 and January 3, 1979. Applications for hearing must be filed at least 22 days in advance of hearing date.

DOCKET: EXAMINER HEARING - THURSDAY - DECEMBER 7, 1978

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

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

CASE 6392:

In the matter of the hearing called by the Oil Conservation Division on its own motion to permit Corinne Grace. The Travelers Indeanity Company, and all other interested parties to appear and show cause why the Indian Hills Com. Well No. 1 located in Unit J of Section 8, Township 21 South, Range 22 East, Eddy County, New Mexico, should not be plugged and abandoned in accordance with a Division-approved plugging program.

CASE 6393:

In the matter of the hearing called by the Gil Conservation Division on its own motion to consider the amendment of Rule 104 F of the Division Rules and Regulations to provide for the administrative approval of the unorthodox location of wells drilled within secondary recovery or pressure maintenance projects.

CASE 0394:

In the matter of the hearing called by the Oil Conservation Division on its own motion to consider the adoption of an administrative procedure and Forms C-132 and C-132-A, all for the purpose of the wellhead price ceiling category determinations under the Natural Cas Policy Act of 1328.

CASE 6395

Application of David Basken for pool contraction and pool extension, Eddy County, New Mexico.
Applicant, in the above-styled cause, seeks the contraction of the Indian Basin-Morrow Gas Pool by
the deletion therefrom of Section 9, Township 21 South, Range 24 East, Eddy County, New Mexico, and
the extension of the Cemetery-Morrow Gas Pool to include the aforesaid Section 9.

CASE 6396:

Application of Amoco Production Company for pool creation and contraction, Lea County, New Mexico. Applicant, in the above-styled cause, seeks the contraction of the House Drinkard oil pool by the deletion therefrom of the ME/4 and E/2 SE/4 of Section 12 and the E/2 NE/4 of Section 13, both in Township 20 South, Range 38 East, and the W/2 of Section 7 and the NW/4 of Section 18, Township 20 South, Range 39 East, and the creation of a new gas pool for Lower Drinkard production in the NE/4 of Section 12, Township 20 South, Range 38 East, all in Lea County, New Mexico.

Runining / Inte Hunker

Application of Western Oil Producers, Inc. for compulsory pooling, Lea County, New Mexico.

Applicant, in the above-styled cause, seeks an order pooling all mineral interests in the Morrow formation underlying all of Section 4, Township 24 South, Range 35 East, Cinta Roja-Morrow Gas Pool, to be dedicated to a well to be drilled at a standard location thereon. Also to be considered will be the cost of drilling and completing said well and the allocation of the cost thereof as well as actual operating costs and charges for supervision. Also to be considered will be the designation of applicant as operator of the well and a charge for risk involved in drilling said well.

CASE 6398:

Application of Texas 011 & Gas Corporation for an unorthodox gas well location, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks approval for the unorthodox location for the Wolfcamp and Pennsylvanian formations of its State Com Well No. 1, to be located 660 feet from the South and West lines of Section 18, Township 21 South, Range 26 East, Catclaw Draw Field, Eddy County, New Mexico, all of said Section 18 to be dedicated to the well in the Morrow formation.

CASE 6399:

Application of Texas 011 & Gas Corporation for compulsory pooling, Eddy County, New Mexico.

Applicant, in the above-styled cause, seeks an order pooling all mineral interests in the Wolfcamp and Pennsylvanian formations underlying the W/2 of Section 12, Township 18 South, Range 27 East, Eddy County, New Mexico, to be addicated to a well to be drilled 710 feet from the North line and 233 feet from the West line of said section. 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 6490:

Application of Coronado Exploration Corporation for compulsory pooling, Chaves County, New Mexico. Applicant, in the above-styled cause, seeks as order pooling all mineral interests in the San Andres formation underlying each of the following 40-acre tracts: SW/4 SW/4 Section 7; SW/4 SW/4 Section 8; SW/4 SE/4 Section 18; NW/4 FW/4 Section 19; and NW/4 NW/4 Section 20, all in Township 10 South, Range 28 East, Race Track-San Andres Pool, Chaves County, New Mexico. Also the NE/4 NE/4 Section 28, Township 10 South, Range 28 East, LE Rauch-San Andres Pool, Chaves County, and the SW/4 NE/4 Section 15, Township 11 South, Range 28 East, East Chisum-San Andres Pool, Chaves County. Each of the aforesaid 40-acre tracts would comprise a drilling unit to be deficated to a well to be drilled at a standard location thereon. Also to be considered, with respect to each of the above described drilling units and well, will be the cost of drilling and completing the 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 each well and a charge for risk involved in drilling each well.

The Court of the C

F -

CASE 6401: Application of Southland Royalty Company for downhole comminging, Rio Arriba County, New Mexico.

Applicant, in the above-styled cause, seeks approved for the commode comminging of Pictured Claffs and Messverde production within the wellbore of its Ji arilla 101 Well No. 1 located in Unit A of Section 1, Township 26 North, Rauge 4 West, Rio Arr. ba County, New Mexico.

CASE 6402: Application of Southland Royalty Company for downhole commingling, Rio Arriba County, New Mexico.
Applicant, in the above-styled cause, seeks approval for the downhole commingling of Callup and
Dakota production within the wellbore of its Jicarilla 101 Well No. /2 located in Unit of Section
12, nowaship 26 North, Range 4 West, Rio Arriba County New Mexico.

CASE 6403: Application of Consolidated Cil & Gas, Inc. for downhole commingling, San Juan County, New Mexico. Applicant, in the above-styled cause, seeks approval for the downhole commingling of Basin Dakota and Blanco Mesaverde production within the wellbore of its O'Skea Well No. 1 located in Unit K of Section 1. Township 31 North, Range 13 West, San Juan County, New Mexico.

Application of Sun Production Company for compulsory peoling, non-standard gas proration unit, and an unorthodox well location, les county, New Mexico. Applicant, in the above-styled cause, seeks an order pooling all mineral interests in the Emmont Gas Pool underlying the SE/4 of Section 35, Township 19 South, Range 36 East, Lea County, New Mexico, to form a non-standard 160-acre proration unit to be dedicated to a well to be drilled at an unorthodox location 810 feet from the South line and 2030 feet from the East line of said section. 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 6405: Application of LaRue and Muncy for exception to Order No. R-111-A, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks an exception to the casing/cenepting rules for the Oil-Potash area as promulgated by Order No. R-111-A to permit its Federal FR Well No. 1 located in Unit I of Section 15, Township 18 South, Range 30 East, Eddy County, New Mexico, to be completed in the following manner: set surface casing and circulate cement; eliminate salt protection string; and do not circulate cement on production casing.

NOTE: This form is to be filed and attachments made in accordance with the provisions of Rule 309. If discovery is claimed for more than one zone, separate forms must be filed for each.

Amoco Production Company	Addre						
ease Name	Well	P.U. 1	County	<u>4", Levell</u> '	and, 1	X 79336	
Cone B	<u>i</u>	2		Lea			
Unit Letter G ; 1980	Fee	rt from Ti	North	Line «	and1	1980	Feet
From the East Line of Section 12 . Towns uggested Pool Names (List in order of preference)	hip	20-S		Range	38-E	, NI	(PM
House Lower Drinkard 2.	· · · · · · · · · · · · · · · · · · ·	···	<u> </u>	3.	Date of	Filing Form C-	104
Lower Drinkard 7050' - 60'. Was "Affidavit of Discovery" Previously Filed If Yes, Give Date o	70661	- 801			<u> </u>		
or This Well in this Pool?	f Filing	Date	Well was Spi 8-26	-78		mpl. Ready to F 10-4-78	
7150 Plugged Back Depth Depth Ca	sing Shoe	Tub	ng Depth 6976		iion (Cr., 1568.4	DF, RKB, RT, CD	eic.j
Well Potential (Test to be taken only after all load oil has been t	•		7	1 <u>`</u>	300.4	_	
Bois, Oil Per Day Based On Bbis in_		Hours;		ols Water Per Do	•		Bbls
in 24 Hours; Gas Production During Test: 2900 EAREST PRODUCTION TO THIS DISCOVERY (Includes past and pr				ethod Of Flo	w s		/64"
l or vertical separation): Name of Producing Formation		p of Pay	icing dreas as	Bottom of Pay	r this disc	Currently Prod	
House Drinkard Drinkard		6976		7070		Yes	·
forisontal Distance and Direction from Subject Discovery Well to the Nearest Well in this Pool 1320' South	Po	ol	20' Souti	bject Discovery	Zone to I	Producing Inter	ral this
EAREST COMPARABLE PRODUCTION (Includes past and present of	oil or eas pro	duction	from this pay	or formation onl	v):		
Pool Name	To	p of Pay		Bottom of Pay		Currently Prod	ucing?
House Drinkard Horizontal Distance and Direction from Subject Discovery Well to the		6976	Comparable i	7070 2001		<u>Yes</u>	
1320' South							
s the Subject Well Is Discovery Allowable Requested for other Zone(s)?					-1		
ST ALL OPERATORS OWNING LEASES WITHIN ONE MILE OF TH	IIS WELL (A	ttach add	itional sheet	if necessary)			
Amerada Hess Corporation	Dr	awer) Monum	ent, NM 8			
Llano Inc.		Box 1320 Hobbs, NM 88240					
Western Equipment Company		Box 5457 Midland, TX 79701					
B.A. Ray	Во	Box 1385 Midland, TX 79701					
R.A. Pierce	Во	Box 303 Eunice,NM 88231					
Damson Oil Corporation			260 North Belt East, Suice 300 Houston, TX 77				
Wolfson Oil Company			K Petro		dland,	TX 7970	
toch evidence that all of the above operators have been furnished a c the subject well as a discovery well, all alble to receive a discover	copy of this o	upplication	on. Any of sai	d aparetters who	intends N	object A diff	egignation
mmission of such intent in writing within ten days after receiving a	,,	,		moc	- १८४४ -)N =
Remarks:					6	391	
			5	sha gasay	Pa	396 Se	و پهره میشود د در و
				. Verin - Da r	 	7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	
C E I sereby certify that all rules and regulations of the New Mexico Oil Co at it is my opinion that a bane fide discovery of a hitherto unknown	RTIFICA Passervation (-	venytted sith.	udth mane	es to the earlier	t well,
it it is my oblains that a bane fide discovery of a hitherto unknown very allowable for the subject well, if suthorized, will be produced acked bereto is true and complete to the best of my knowledge and h	from the eal relief.	pject son	in this well	only. Further, 1	hat the in	formation given	horein and

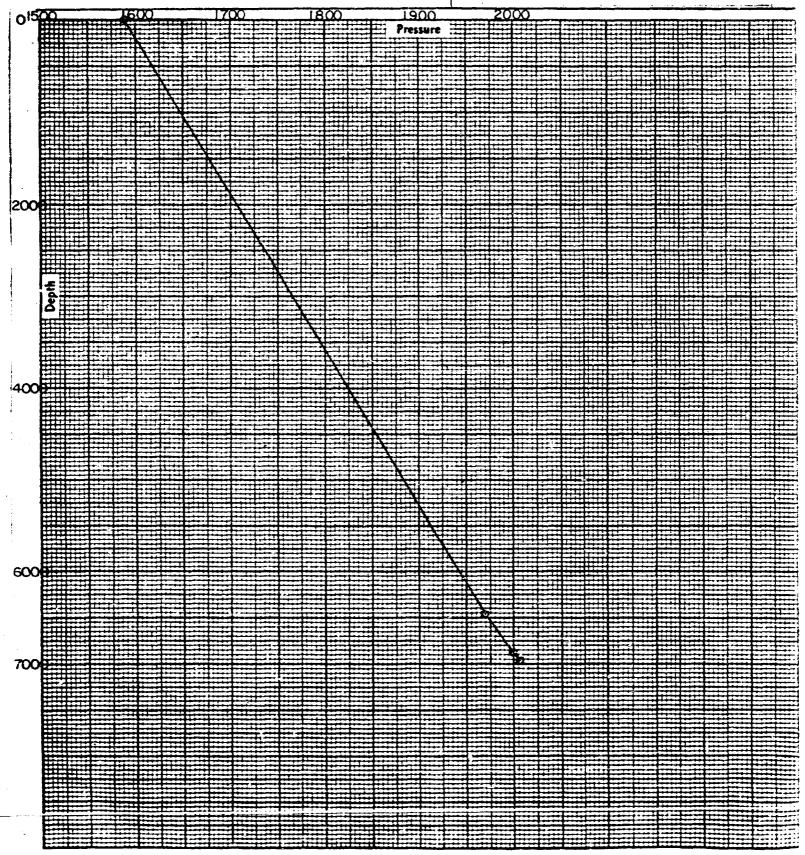
Administrative Supervisor

Position

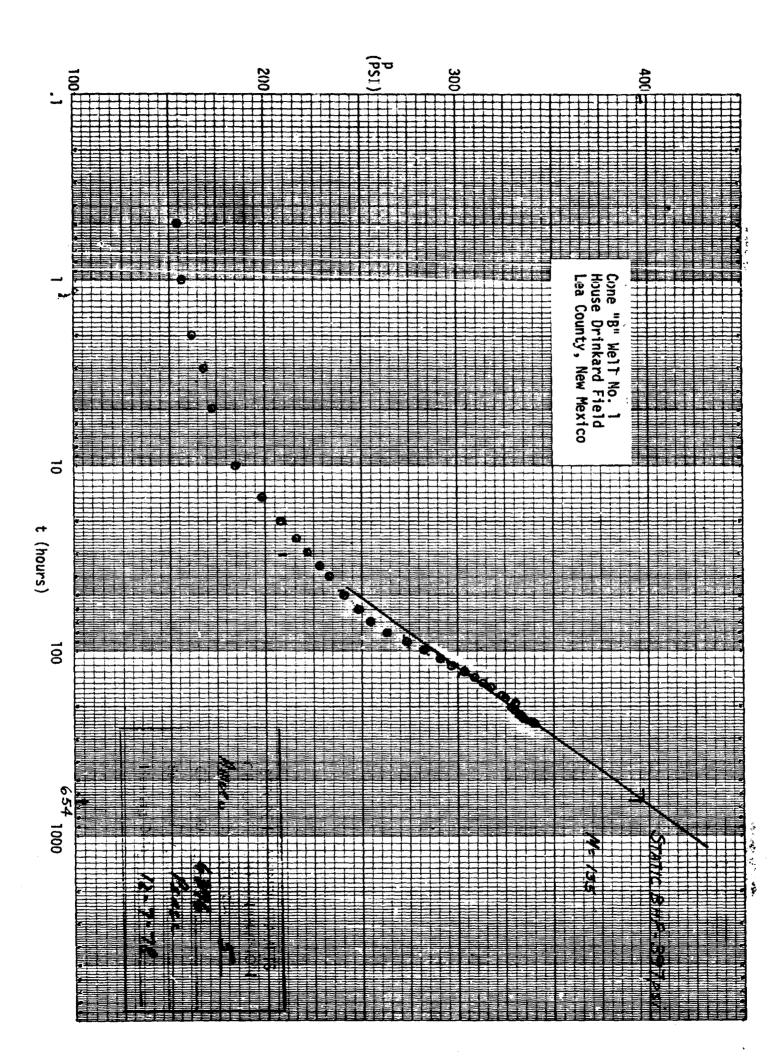
November 17, 1978

BOTTOM HOLE PRESSURE SURVEY REPORT

OPERATOR_	AMOCO PRODUCTION COM	PANY	DEPTH	PRESSURE	GRADIENT
LEASE	CONE "B"				
WELL NO	2		000	1589	
FIELD			6470	1970	.059
DATE	11-1-78 TIME	9:30 A.M.	6870	2000	.075
STATUS	SHUT-IN TEST DEPTH	6.970'	6970	2006	.060
-	11 DAYS LAST TEST DATE				
CAS. PRES	BHP LAST TEST_				
TUE. PRES	1589 PSIGHP CHANGE		Pm		21
ELEV	FLUID TOP		7.700	_	
DATUM	WATER TOP			6390	•
TEMP	RUN BY	B.J.T.		Peas	; . •
CLOCK NO.	20842 GAUGE NO.	16363		· va s	· · · · · · · · · · · · · · · · · · ·
ELEMENT NO). 39331 (0-4200 - (PSI			12.7	- 78
			1 :		1







CONE "B" WELL NO. 1

HOUSE DRINKARD FIELD

BOTTOM HOLE PRESSURE BUILDUP TEST

Cumulative Production: 215,973 BO 426 MMCF (1/78)

Date Well Completed: July, 1950

Latest Producing Rate: 11 BOPD Trace BWPD 41.5 MCFD

WELL DATA

Net Thickness, h = 47 ft

Porosity, \$ avg = 9%

Water Saturation, Swavg = 25%

Viscosity, µ in cp

011 = .88

Gas = .012

Volume Factors, B

 $B_0 = 1.22$

 $B_g = 10.7$

Drainage Radius, re

$$r_e = \sqrt{\frac{(40 \text{ acres}) 43560}{\pi}} = 745 \text{ ft}$$

System Compressibility, $C_t PSI^{-1} = S_0 C_0 + S_W C_W + S_g C_g + C_{rock}$

Ct =
$$[.6(10 \times 10^{-6})]$$
 + $[.15 (\frac{1}{400})]$ + 5 x 10^{-6}

Ct = 3.86 x 10-4 PSI-1

INTERWELL Kh; TOTAL MOBILITY $(\frac{K}{u})t$

Koh = $\frac{162.6 \text{ Qo } \mu \text{O Bo}}{M} = \frac{162.6 \text{ (11) (.88) (1.22)}}{135} = 14.22$ Ko = 0.3

 $Kgh = \frac{162.6 (Qg \text{ total} - Qo Rs) \mu g Bg}{M} = \frac{162.6 [41.5 - 11(.29)](.012) 10.7}{135} = 5.92 \quad Kg = .13$

$$\left(\frac{K}{\mu}\right)t = \frac{Ko}{\mu O} + \frac{Kg}{\mu G} = \frac{0.3}{.88} + \frac{0.13}{.012} = 11.17$$

AVERAGE RESERVIOR PRESSURE

Extrapolation Time, hrs = 379
$$\%$$
 C_t r_e² ($\frac{\mu}{K}$)t
= 379 (.09)(3.86x10⁻⁴)(745²) $\frac{1}{11.17}$

t = 654 hrs.

At t = 654 hrs, P = 397 P

Avg Reservior Pressure = 397 PSI

HALLIBURTON DIVISION LABORATORY

HALLIBURTON SERVICES MIDLAND DIVISION HOBBS, NEW MEXICO 88240

LABORATORY WATER ANALYSIS

Drawer A				Date	10-9-78		
Levilland, T xas			This report is the property of Halliburton Company and neith it nor any part thereof nor a copy thereof is to be publish or disclosed without first according				
Tatalan, 1 Xa			of laboratory managem course of regular busine	st securing the express written approve sent; it may however, be used in the sent; it may however, be used in the ses operations by any person or concer receiving such report from Halliburto.			
Submitted by							
	De			Date Rec			
County				———Formation			
	10-5-78 6	FM	_10-6-78	6 PM			
Resistivity	0.048 e	74°F.		8 74°F.			
Specific Gravity	1.183		1.175				
pH	x 6.4		6.4				
Calcium (Ca)	9,000		12,500		*MPL		
Magnesium (Mg)	Nil		<u> Ņ11</u>	•			
Chlorides (CI)	170,000		162,000		· · · · · · · · · · · · · · · · · · ·		
Sulfates (SO ₄)	2,200		2,300				
Bicarbonates (HCO ₃)	145		160				
Soluble Iron (Fe)	90		90	•			
		FARCE					
		OIL CO	EBANAS MENASTA	M DAVIDON I			
Remarks:		CARE	6. 639	: <u> </u>	*Milligrams per liter		
		S objection	Per	Se			
		Hearing	Date 12 -	7-78			
		Respectfull	y submitted,				
inclyst <u>. Brewer</u> C:				HALLIBURTON	COMPANY		
			Ву	U. Z.	Brewer		

NOTICE

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HALLIBURTON DIVISION LABORATORY

HALLIBURTON SERVICES MIDLAND DIVISION HOBBS, NEW MEXICO 88240

LABORATORY WATER ANALYSIS

No	W78-9	50	

To Amoco Froductio			Date1	
Drawer A Levelland, Texas 79336		This report is the property of Halliburton Company and ne it nor any part thereof nor a copy thereof is to be public or disclosed without first securing the express written app of laboratory management; it may however, be used in course of regular business operations by any person or cor and employees thereof receiving such report from Hallibu Company.		
Submitted by			_ Date Rec	19- <i>2</i> 7-78
Well No As Marked	Depth		_ Formation	Drinkard
County Lea	Field0	il Center	_ Source	·
	Cone A-1	Cone B-1	···	
Resistivity	0.068 @ 74°F.	0.065 @ 74	F	5.
Specific Gravity	1.118	1.121		
pH	•	6.2		
Calcium (Ca)	• •	18,500		*MPI
Magnesium (Mg)		Nil		
Chlorides (CI)		109,000		
	1,500	1,400		
Bicarbonates (HCO ₃)				
	Nil			
**************************************			-	
Remarks:		:	:	*Milligrams per liter
·				·
	Kespectful	lly submitted,		· · · · · · · · · · · · · · · · · · ·
Analyst: Brever cc:		в <u>у <i>W</i>.</u>	IALLIBURTON	Brewel

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HALLIBURTON DIVISION LABORATORY

HALLIBURTON SERVICES MIDLAND DIVISION HOBBS, NEW MEXICO 88240

LABORATORY WATER ANALYSIS

No W/0-951	No	W78-951	
------------	----	---------	--

•	Company		10-27-78	
Drawer A Levelland, Texas		or disclosed without first securing the express written approve		
Submitted by		Date Rec	10-27-78	
Well No As Marked	Depth	Formation_	Drinkard	
County Lea	Field011_C	enter Source	•	
. ·	House C-1	State U #1	· · · · · · · · · · · · · · · · · · ·	
Resistivity	0.076 @ 74°F.	0.070 3 74 ⁰ F.		
Specific Gravity	1.109	1.116		
pH	6.4	6.3		
Calcium (Ca)	15,000	18,000	*MPI	
Magnesium (Mg)	Nil	Nil		
Chlorides (CI)	97,000	104,000	:	
Suffates (SO ₄)	1,400	1,600		
Bicarbonates (HCO ₃)	280	270	· .	
Soluble Iron (Fe)	60	Nil		
		-		
Remarks:		•	*Milligrams per liter	
		•		
	Respectfu	lly submit ed,		
Analyst: Brewer		HALLIBURTON	I COMPANY	
CC:		TIVELIDOR TOTAL	0 /	

NOTICE

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12-7-78 6392, 6401, 6402, 6403 Contd 6393. Vex & Kendrick 6394 - 8LS & Ver Ribert 5 Wheelet Cities Son Emergrap Order 12-1-78 Rule 3 GS R1620-7 mu order 6395 Summer Buell Jin B Of Henry NSP Indian Bosin 5/2 Sec 9 6396 Guy Buell fin Peasa GOR limit US un restricted allow. ? what pool is Sec 6 How Old House Drinkurd What is pay interval old pool
Would expect 3000 psi BHP only got 2000, Drainage or Vestorandon 6398 Joel Carson TOEB Tom Kellahin Hanagan Chartes Cookman Geo X Vom 1/2 yr Veraco Mapping Morrow for TOB

3 Std. loc. 170 closer Than 180 1800 1650 could locate new well at 1650 I is acruye 1.55 than 6'sd 170+ production

mid Morror not only prospective pay Sal Pigano Dist Res Cage

U Miss 73 Rolle BS Eng.

Procest Hobbs - Aichows Alg-Rod,

WF July 78 joined TOS Non Bet 175% deploted does 170 t Lee 1 penalizing production is appropriate. 2979 640 acre drainage rachius No top allow wells in pool Direct Vom Thugh Hanagan

Field apparently July developed

Not more than 1853 then 100 acres
in Setion 15 would be productive Where are zones behind pipe in offset wells that could produce which wight be to drained by the well at the 156 of Clarity testinging on Nan Best pays ? Should pestrict prod W/ af beset on Net drain - loc or acreege Dest than 100 acres productive of would also like to see odd!

Re direct Cookman 6399 Jal Carron Risk Factor (200%) Doyle Survi Landwoon VOG NWNW subject to lit, peting if Leds loose they need to have non locatable heirs pooled. ? What attemps, made, yehildren ! What a temps itrade? 4 children ? How many people in lot 12 in heirs located # 1980 of Reter 6397 George Hun Ker Western Oil Prod Vom Kellahin George direct

Florin Notice

R3161 are 3492 Roy Mcfay Pres Me Kay Oil Produces

2520 drly roter

\$ (292) prod J 100-120 days to produce 8 Whose name on C-101 Western 1969 - Sun 0:1 6 Landinan Pubco
Petro Grande 1973, gdrilled 50 Horrow Wells in SEN.M.

Direct Vom Bellahin John Scott (Saty) Alcorn Dexelopment Greo BS G Engr 50 OU. Thursda WTax-NA Indetals then 72 BVA Dev Ger dig 7700 + Gety Well in Selo B+A not joining writing on Geth wellin 10 world show it not jim likely broad of good well in 4 is 30% or 70% penalty recommended not over 60% Porticipated w/ but in Sec 5 well what is pay Bor delta channel
Top 25 - others show line What drilled 1st, 2nd, 3rd 6400 Joel Carson Harvey Yates or pres with a Cable Tool regs, UVer, Low School Selma Andrews Trust to be pooled, each s.d 0.78125% Republic Nat Bong Dullas Intensts under all trocts the same ? How long to sket edrillall \$ 1900,68 drly \$ 245 prod Risk 3 wells one after the other prior to March 30 2 more " May 31, 1999 2 more 17 days to drill - 10 days to complete

Charles Joy peroities 50-7% 200 % Risk Lactor 6404 Vorge Kellahin John P. Wawks Area Land Mgr 1139 ME TAAM 160-acre NSP all WI owners signed up. ORI only poole & Joseph M Martin area res engr. 6405 Bert Muncy Mine in acea shut down sext ID 3500 premier Surface to top of solt 550-600 Prod string set, will run enough to John Burkeson, Mining super Go S No safety problem Some water flow in Seven Rivers Notify of water flow.

BEFORE THE OIL CONSERVATION DIVISION STATE OF NEW MEXICO

IN THE MATTER OF THE APPLICATION)
OF AMOCO PRODUCTION COMPANY FOR)
POOL CREATION AND CONTRACTION,)
LEA COUNTY, NEW MEXICO.

Case No. 6396

ENTRY OF APPEARANCE

The undersigned hereby enter appearance herein in behalf of AMOCO PRODUCTION COMPANY, with Guy Buell or Richard Merrill of Houston.

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

P. O. Drawer 700

Roswell, New Mexico 88201

Attorneys for Amoco Production Company

ATWOOD, MALONE, MANN & COOTER

A PROFESSIONAL ASSOCIATION LAWYERS

JEFF D. ATWOOD [883-1960] ROSS L. MALONE [1910-1974]

P.O. DRAWER 700
SECURITY NATIONAL BANK BUILDING
ROSWELL, NEW MEXICO 88201
[505] 622-6221

CHARLES F. MALONE RUSSELL D. MANN MAUL A. COOTER BOB F. TURNER ROBERT A. JOHNSON JOHN W. BASSETT ROBERT E. SABIN BRIAN W. COPPLE

9-010

RANDAL W. ROBERTS

December 4, 1978

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

> RE: Examiner Hearing December 7, 1978 Case No. 6396

Dear Mr. Ramey:

Please file the enclosed Entry of Appearance in Case No. 6396.

Thank you and with regards, I am

Very truly yours

Paul Cooter

PC/le

Encl.

cc: Guy Buell, Esq. W/encl.

Dockets Nos. 40-78 and 41-78 are tentatively set for hearing on December 20, 1978 and January 3, 1979. Applications for hearing must be filed at least 22 days in advance of hearing date.

DOCKET: EXAMINER HEARING - THURSDAY - DECEMBER 7, 1978

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

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

- CASE 6397: The matter of the hearing called by the Oil Conservation Division on its own motion to permit Corinne Grace, The Travelers Indemnity Company, and all other interested parties to appear and show cause why the Indian Fills Com. Well No. 1 located in Unit J of Section 8, Township 21 South, Range 24 East, Eddy County, New Mexico, should not be plugged and abandoned in accordance with a Division-approved plugging program.
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- Application of Texas Oil & Gas Corporation for an unorthodox gas well location, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks approval for the unorthodox location for the Wolfcamp and Pennsylvanian formations of its State Com Well No. 1, to be located 660 feet from the South and West lines of Section 18, Township 21 South, Range 26 East, Catclaw Draw Field, Eddy County, New Mexico, all of said Section 18 to be dedicated to the well in the Morrow formation.
- Application of Texas Oil & Gas Corporation for compulsory pooling, Eddy County, New Mexico.

 Applicant, in the above-styled cause, seeks an order pooling all mineral interests in the Wolfcamp and Permsylvanian formations underlying the W/2 of Section 32, Township 18 South, Range 27 East, Eddy County, New Mexico, to be dedicated to a well to be drilled 710 feet from the North line and 2330 feet from the West line of said section. 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 6400: Application of Coronado Exploration Corporation for compulsory pooling, Chaves County, New Mexico. Applicant, in the above-styled cause, seeks an order pooling all mineral interests in the San Andres formation underlying each of the following 40-acre tracts: SW/4 SW/4 Section 7; SW/4 SW/4 Section 8; SW/4 SE/4 Section 18; NW/4 NW/4 Section 19; and NW/4 NW/4 Section 20, all in Township 10 South, Range 28 East, Race Track-San Andres Pool, Chaves County, New Mexico. Also the NE/4 NE/4 Section 28, Township 10 South, Range 28 East, LE Ranch-San Andres Pool, Chaves County, and the SW/4 NE/4 Section 15, Township 11 South, Range 28 East, East Chisum-San Andres Pool, Chaves County. Each of the aforesaid 40-acre tracts would comprise a drilling unit to be dedicated to a well to be drilled at a standard location thereon. Also to be considered, with respect to each of the above described drilling units and well, will be the cost of drilling and coroleting the 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 each well and a charge for risk involved in drilling each well.

- CASE 6401: Application of Southland Royalty 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 Mesaverde production within the wellbore of its Jicarilla 101 Well No. 1 located in Unit A of Section 1, Township 26 North, Range 4 West, Rio Arriba County, New Mexico.
- CASE 6402: Application of Southland Royalty Company for downhole commingling, Rio Arriba County, New Hexico.

 Applicant, in the above-styled cause, seeks approval for the downhole commingling of Gallup and
 Dakota production within the wellbore of its Jicarilla 101 Well No. 2 located in Unit N of Section
 12, Township 26 North, Range 4 West, Rio Arriba County, New Mexico.
- CASE 6403: Application of Consolidated Oil & Gas, Inc. for downhole commingling, San Juan County, New Mexico.

 Applicant, in the above-styled cause, seeks approval for the downhole commingling of Basin Dakota and Blanco Mesaverde production within the wellbore of its O'Shea Well No. 1 located in Unit K of Section 3, Township 31 North, Range 13 West, San Juan County, New Mexico.
- CASE 6404: Application of Sun Production Company for compulsory pooling, non-standard gas proration unit, and an unorthodox well location, Les County, New Mexico. Applicant, in the above-styled cause, seeks an order pooling all mineral interests in the Eumont Gas Pool underlying the SE/4 of Section 35, Township 19 South, Range 35 East, Les County, New Mexico, to form a non-standard 160-acre proration unit to be dedicated to a well to be drilled at an unorthodox location 810 feet from the South line and 2030 feet from the East line of said section. 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 6405: Application of LaRue and Numcy for exception to Order No. R-111-A, Eddy County, New Mexico.

 Applicant, in the above-styled cause, seeks an exception to the casing/cementing rules for the

 Oil-Potash Area as promulgated by Order No. R-111-A to permit its Federal FR Well No. 1 located
 in Unit I of Section 15, Township 18 South, Range 30 East, Eddy County, New Mexico, to be completed
 in the following manner: set surface casing and circulate cement; eliminate salt protection string;
 and do not circulate cement on production casing.

Ph. State
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application of amore Production lo for soul exection and contraction bed County, lemopres. applicant in the above styled same seeks pool by the deletion hereflow of the NE/4 and E/2 SE/4 of Section 12, Town 20 South, Runge 38 East, and the W/z of Section 7 and the NW/4 of Section 18, Township 20 South, Range 39 East, see in Conty traction of a now gas pool for Lower Dinkerd probletion in the NE/4 & Destern 12, Tennohip 20 South, Range 38 East, all in Lea County, herstheries.



Amoco Production Company

Case 6396

Houston Region 500 Jefferson Building Post Office Box 3092 Houston, Texas 77001

Sunta Fe

J. R. Barnett

November 21, 1978

File: TBM-986.51NM-1237

Request for Hearing House Pool (Drinkard) Lea County, N.M.

Department of Energy & Minerais (3) Oil Conservation Division P. 0. Box 2088 Santa Fe, N.M. 87501

Attention: Mr. Joe D. Ramey

Gentlemen:

Confirming telephone request of November 15, 1978 to Mr. Dan Nutter, Amoco Production Company requests a hearing to consider the contraction of the House Pool (Drinkard) and creation of the Northeast House -Drinkard Pool and House - Lower Drinkard Gas Pool, Lea County, New Mexico.

Specifically, Amoco proposes to delete the following area from the House Pool (Drinkard).

T-20-S R-38-E Sec. 1; SW/4 Sec. 11, NE/4 Sec. 12, N/2 Sec. 14. T-20-S R-39-E Sec. 6; W/2 Sec. 7, NW/4 Sec. 18.

The Northeast House - Drinkard Pool would cover the SW/4 NW/4, NW/4 SW/4 of Section 5, T-20-5, R-39-E.

The House - Lower Drinkard Gas Pool would cover the NE/4 of Section 12, T-20-S, R-38-E with vertical limits being the completion interval in Amoco's Cone "B" Well No. 2, located in Unit G, Section 12, T-20-S, R-38-E, Lea County, New Mexico.

Attached is a map of the area. Please direct any questions to Mr. Jim Pease, telephone number 713-652-5461.

Yours very truly,

J.R. Barnettger

JEP/ym Attachment

cc: Mr. V. E. Staley - Hobbs Mr. G. T. Buell - Building

DRAFT

dr/

STATE OF NEW MEXICO ENERGY AND MINERALS DEPARTMENT

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

CASE	NO.	6396	
Order	: No.	R- 6225	

APPLICATION OF AMOCO PRODUCTION COMPANY FOR POOL CREATION AND CONTRACTION, LEA COUNTY, NEW MEXICO.

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ORDER OF THE DIVISION

BY THE DIVISION:

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This cause came on for hearing at 9 a.m. on December 7, 78

1929 , at Santa Fe, New Mexico, before Examiner Richard L. Stamets

NOW, on this _____ day of December , 19 79 , the Division

Director, having considered the record and the recommendations of the Examiner, and being fully advised in the premises,

FINDS:

That the applicant's request for dismissal should be granted.

IT IS THEREFORE ORDERED:

That Case No. 6396 is hereby dismissed.

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

HEATEG 1998 COMPULSORY POOLING, LEA COUNTY, NEW CASE 6397: WESTERN O'LL PRODUCTES, INC.