CASE 7215: AMOCO PRODUCTION COMPANY FOR AN UNORTHODOX GAS WELL LOCATION, EDDY COUNTY, NEW MEXICO

CASE NO.

72/5

APPlication,
Transcripts,
Small Exhibits,

ETC.



LARRY KEHOE

STATE OF NEW MEXICO ENERGY AND MINERALS DEPARTMENT OIL CONSERVATION DIVISION

May 22, 1981

POST OFFICE BOX 2088 STATE LAND OFFICE BUILDING BANTA FE, NEW MEXICO 87501 (505) 827-2434

Mr. Cly	de Mote,	Attorney
	roduction	
	fice Box	
	, Texas	77001

Re: CASE NO. 7215 ORDER NO.R-6654

Applicant:

Amoco Production Company

Dear Sir:

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

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. 7213 Order No. R-6654

APPLICATION OF AMOCO PRODUCTION COMPANY FOR AN UNORTHODOX GAS WELL LOCATION, EDDY COUNTY, NEW MEXICO.

ORDER OF THE DIVISION

BY THE DIVISION:

This cause came on for hearing at 9 a.m. on April 8, 1981, at Santa Fe, New Mexico, before Examiner Richard L. Stameta.

NOW, on this 20th day of April, 1981, the Division Director, having considered the testimony, the record, and the recommendations of the Examiner, and being fully advised in the premises,

FINDS:

- (1) That due public notice having been given as required by law, the Division has jurisdiction of this cause and the subject matter thereof.
- (2) That the applicant, Amoco Production Company, seeks approval of an unorthodox gas well location for its Willow Lake Unit Well No. 4Y to be drilled 1988 feet from the South line and 660 feet from the West line of Section 14, Township 24 South, Range 28 Emat, NMPM, to test the Wolfcamp and Pennsylvanian formations, Eddy County, New Mexico.
- (3) That the S/2 of said Section 14 is to be dedicated to the well.
- (4) That a well at said unorthodox location will better enable applicant to produce the gas underlying the proration unit.
- (5) That no offset operator objected to the proposed unorthodox location.
- (6) That approval of the subject application will afford the applicant the opportunity to produce its just and equitable

-2-Case No. 7215 Order No. R-6654

share of the gas in the subject pool, will prevent the economic loss caused by the drilling of unnecessary wells, avoid the sugmentation of risk arising from the drilling of an excessive number of wells, and will otherwise prevent waste and protect correlative rights.

IT IS THEREFORE ORDERED:

- (1) That an unorthodox gas well location for the Wolfcamp and Penneylvanian formations is hereby approved for the Amoco Production Company Willow Lake Unit Well No. 4Y to be located at a point 1980 feet from the South line and 660 feet from the West line of Soction 14, Township 24 South, Range 28 East, NMPM, Eddy County, New Mexico.
- (2) That the S/2 of said Section 14 shall be dedicated to the above-described well.
- (3) That jurisdiction of this cause is retained for the entry of such further orders as the Division may deem necessary.

DONE at Santa Fe, New Hexico, on the day and year herein-

STATE OF NEW MEXICO OIL CONSERVATION DIVISION

JOE D. RAMEY

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STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION
STATE LAND OFFICE BLDG.
SANTA FE, NEW MEXICO
8 April 1981

EXAMINER HEARING

IN THE MATTER OF:

Application of Amoco Production Com-)
pany for an unorthodox gas well)
location, Eddy County, New Mexico.)

7215

BEFORE: Richard L. Stamets

TRANSCRIPT OF HEARING

APPEARANCES

For the Oil Conservation Division:

Ernest L. Padilla, Esq. Legal Counsel to the Division State Land Office Bldg. Santa Fe, New Mexico 37501

For the Applicant:

Clyde A. Mote, Esq. Amoco Production Company 500 Jefferson Bldg. Houston, Texas 77002

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MR. STAMETS: We'll call next Case 7215.

MR. PADILLA; Application of Amoco

Production Company for an unorthodex gas well location, Eddy County, New Mexico.

MR. MOTE: Clyde Mote, representing Amoco, in conjunction with Atwood and Malone, and we have one witness.

(Witness sworn,)

MR. MOTE: Mr. Examiner, I'd like to make a short opening statement to sort of tie this case together because there are some loose ends.

This Willow Lake Unit was approved as a Federal exploration unit on March 26th of 1975 by the New Mexico Commissioner of Public Lands. And on March 27th, '75, by the Area Oil and Gas Supervisor for the USGS.

It's located in Eddy County and originally contained 4800 acres. Some 920 acres became excluded out of Sections 28 and 21 during the first year of operation, and the north half of Section 23 was excluded in the previous

Burma Oil and Gas Company was desig-

has succeeded to all the rights of Burma as operator.

Amoco Production Company has orally
agreed to take over unit operation from Aminoil, and although
the written assignment has not been executed and delivered to
Amoco Production Company, it nevertheless appears to be
imminent.

Amoco Production Company desires to change the location of Unit Well No. 4 from its location where it is now currently drilling to Unit Well No. 4-Y, to be drilled 1980 feet from the south line and 660 feet from the west line of Section 14, with the south half of the section dedicated to the well.

Since statewide rules require 1980 feet from the west line, approval is necessary to drill at this unorthodox location.

MR. STAMETS: In essence, what Amoco will be doing is abandoning the Well No. 4 that's already been started by Aminoil, and drilling a new well, then.

MR. MOTE: Well, I don't really know how we'd characterize it. We've got to discuss it with USGS as to how the characterization should be.

MR. STAMETS: But in fact that's what is going to happen. You are not going to drill the current Well No. 4 on to total depth.

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1		MR. MOTE: Not if this application is
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3	1	ranted, that's correct. MR. STAMETS: And will you advise the
4		MR. STAMETO. xaminer as to the effective date of the operator change sub-
5 .	E	Xautier
6	ç	sequent to this hearing? MR. MOTE: Yes, sir, sure will.
7	Ŀ	TAMETS: I would imagine what
8		we'll do, then, is hold up this order, hold up issuing the
	9	we is advised of that change, that
		we'll do, then, is hold up that order until we have been advised of that change, that that
	0	has taken place.
. •		MR. MOTE: All right.
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	1	
	13	HENRY G. DEWITT
-	14 15	henry G. Dentroment of the heart of the hear
	16	testified as follows, to-wit:
pankļ	17	DIRECT EXAMINATION
	18	
	19	would you prease
	20	and in what capacity and location?
	2	voc cir. My name
	2	2 The living in Houston, Texas, and I'm employed
		demany as a peciologue s
		by Amoco Production Company and Have you previously testified before

2 the Oil Conservation Division? 3 No, sir, I have not. Please relate your educational experience. In June, 1975, I completed a Bachelor's 6 program in -- in geology from the University of Massachusetts, 7 and in 1978 received a Master's degree in geology from Colorado 8 State University, And what did you do upon graduation? 10 I began employment with Exxon Company 11 USA, working in their Kingsville District as a production geologist, and was employed there for approximately a year and 13 a half. 14 And then where did you go? Q. 15 Following that, in February of 1980, 16 I began employment with Amoco Production Company and have 17 been working in Eddy and Lea Counties, New Mexico, as an 18 exploitation and exploration geologist for the Morrow forma-19 tion. 20 MR. MOTE: Is there any question con-21 cerning his qualifications? 22 The witness is considered MR. STAMETS: 23 qualified, 24 You'll be asked to testify concerning

Were these exhibits either prepared by you

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certain exhibits.

or under your supervision and direction?

A. Yes, sir, they were.

Q. If you would, please turn to your Exhibit Number One. I notice several different colors of dots on this map. Would you please explain the significance of those to the Examiner?

exhibit is a base map or plat of the Malaga area. Highlighted by the various colored dots are the various initial completions in the area. The blue dots represent Strawn Pennsylvanian completions; the green dots represent Atoka completions; the red dots represent Morrow completions; and finally, the tan or orange dots represent those wells testing.

Q. And how is the Willow Lake Unit outline shown on this map?

Range 28 East, a hachured line bordering through Sections 14, 15, and 16, along the west sides of Sections 16, 21, and 28, the south of Sections 28, 27, and 26, and finally, to the east in Sections 26, 23, and 14.

Q And how is the well that's currently drilling shown on this map?

A. In the south half of Section 14,

Township 24 South, Range 28 East, there's a solid orange dot,

• •

2 indicating the Willow Lake Unit No. 4 Well, currently3 drilling with cable tool.

Q And how is the proposed well shown?

A. Indicated by the red arrow, the Willow Lake Unit No. 4-Y is located 1980 from the south line and 660 from the west line of Section 14.

Q How many wells have been completed in this unit?

A. Three wells to date have been completed in the unit. The first well was the Willow Lake or the Burma Willow Lake Unit No. 1, located in the north half of Section 22. A second completion was the Burma Willow Lake Unit No. 3, a Morrow completion, shown in the south half of Section 15; and finally, a non-unit well, the Maddox Petroleum well was initially completed in January of this year in the north half of Section 23; 1.9 million a day out of the Pennsylvanian Morrow.

Q I notice you have certain items of information highlighted in yellow. What's -- what's the significance of this?

A. Yes, sir, that's correct, Highlighted in yellow underneath each of the various completion symbols seen on the map is the cumulative production and the latest saily rate for those wells as of December 31st, 1980.

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1 All right, if you would, turn to your 3 Exhibit Number Two, which I believe is your Isopach map. Yes, sir. Here, what you see here is a sand Isopach or sand limits map of an inferred Atoka Channel system that prograded through the area in Atoka time. And do the same dots on this map, are they the same -- with the same reasons and explanations as was on the previous exhibit? 10 Yes, sir, just as I've done before, 11 I've used the same color coding, blue for Strawn, green for 12 Atoka, red for Morrow, and finally, those wells testing. I've 13 highlighted those Atoka completions within the inferred 14 channel system as identified by the squares represented 15 adjacent to the green dots. You've seen their cumulative 16 production and their daily rate currently as of December 17 31st, 1980. 18 And what control do you have for this 19 interpretation? 20 The controls I have available are those 21 wells which have been identified on this base map. 22 And how did you go about constructing 23 this exhibit? 24 I used electric logs, sample logs,

and mud logs where they were available, and calculating the

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       net footage of Atoka Sand present or not present in these
       wellbores.
                             And what's the environment of the
                   Q.
       deposition?
                             Based on the work I've done here, the
                   A.
       geometry of these sands, their relationship to surrounding
       limestones and shales, it's my interpretation that this re-
      presents an ancient fluvial system that drained through the
   9
 10
      Malaga area.
 11
                            And what is the nature of these deposits?
 12
                            These are highly lenticular in nature,
      They're widely variable. You can see that the channel system
 13
      is not more than probably 3/4 to a mile wide.
 14
 15
                            All right. Your proposed well is shown
     on this map also by the same arrow as was on the previous
 16
 17
     map, is that correct?
18
                           Yes, sir, that's correct. You see it
19
     in Section 14.
20
                           And immediately to the east of the
    proposed well you'il see the same well No. 4, Unit Well No. 4,
21
    that is currently drilling, is that correct?
22
23
                 A,
                           Yes, sir.
24
                           I notice that it's almost off of your
25
    contours for the Atoka. Is that correct?
                                                It's in the shale
```

area?

A. Yes, sir, it's right on the border.

Based on my control in the area I can estimate probably four to five feet of net Atoka Sand might be available to it at that location.

Now why do you want to move the location

A. Several reasons I think are important.

Number one, that again the boundary of this inferred channel system is still inferred. The advantage of moving the well to the west may give us anywhere from 17 to 18 feet of net Atoka Channel Sand to us.

Secondly, those wells which were completed in the central portions of these -- of this channel system appear to have a substantially higher reservoir quality and higher cumulative rates.

If I might point your attention to the north in Township 23 South, Range 28 East, Delta drilled two wells, their South Culebra Bluff in the east half of Section 23, and finally their second Culebra Bluff Unit Well in the east half of Section 14.

If you look at the cumulative rates of those two wells, or the cumulative production, the Delta Culebra Bluff well in Section 23 has cum approximately 12.7 Bcf as of December, 1980, whereas the second Culebra Bluff

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Well has cumed only 371 million cubic feet of gas.

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The importance here is that the higher cumulative production is associated with 24 feet of net Atoka sand, whereas those wells on the periphery of this channel system, 8 feet in this case, appear to have substantially less cumulative production.

Finally, we would substantially reduce our risk in drilling this well if we were to move it to the west.

Q Well, up to this point we've been talking about the Atoka. Is there any possibility of encountering any other zones?

A Yes, sir, there's also significant potential existing in the Pennsylvanian Strawn and Pennsylvanian Morrow formations.

0. Would your Exhibit Number Three suggest this?

A. Yes, sir. If you refer to my Exhibit

Number Three, again this is -- again I've used the same color

coding as seen in the previous two maps. What I'd like to

show here, this does depict the structural contour map with

subsea values calculated from the various electric logs; on

the top of the Pennsylvanian Strawn you can see that our loca
tion currently in the south half of Section 14, the proposed

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Willow Lake Unit No. 4-Y would be located to the west of that. It is my estimation that we'd gain about 30 feet of structure relief, if we were to move this location to the west.

As I said before, the Pennsylvanian Strawn is known to be productive in the area, along with the Pennsylvanian Morrow formation. There were several reservoirs identified in the Maddox-Earl Guitar No. 1 in the north half of Section 23, Township 24 South, Range 28 East. Only one of those was - was a successful completion. The others, two or three reservoirs were indicated to be wet by log analysis.

If we could encounter those reservoirs additionally up-dip it might allow us to make a successful gas completion in those Morrow reservoirs, along with the Pennsylvanian Strawn.

And it's your testimony that this exhibit shows the change in location would ravor a Strawn well as well as a Morrow location over the existing location that is now drilling?

A. Yes, sir, that's correct.

Do you have an opinion as to whether or not the proposed location would enhance the probability of a successful commercial completion in the Atoka, Strawn, and Morrow, as compared to the existing drilling location?

Yes, I do.

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1	:	o What is your opinion?
2		Briefly, in summarizing the data that
3		t horo I think you can see that again we
4	we	have presented here, I want to make the have presented here, I want to make the have build substantially be reducing our risk if we were to move build substantially be reducing our risk if we were to move
5	WC	ould substantially be reduced,
6	th	wo. We can expect to encounter an increased amount of net
7	T	wo. We can expect to encounter un
8	A	toka sand available to us of substantially high reservoir
9	q	quality and hopefully substantial reserves. Additionally, up dip potential would
10		completion in the Pennsylvanian
11	1 6	Strawn and Morrow formations, as identified on my enclosure
1	2	Strawn and Moriow Torange Three.
1	3	Number Three, Exhibit Number Three. Number Three, Exhibit Number Three. Number Three, Exhibit Number Three.
	4	Q. has did to drill and complete a well in the this Well No. 4-Y
1	15	to drill and compared to drill?
	16	which you're asking to drill? Yes, sir, and that is approximately
	17	소리를 하는 것이 되면 보고 있다. 그는 것이 되는 것이 되는 것이 되는 것이 되는 것이 되는 것이 되는 것이 되었다. 그는 것이 없는 것이 없는 것이 되었다. 그는 것이 없는 것이 없는 것이 없는 사람들은 것이 되는 것이 되었다.
	18	\$1.9 million. All right, has an estimate been made of
	19	the probable recoverable reserves that might be obtained
	20	
	21	from this well? A Yes, sir. Based on the offset
	22	production, I point out two wells in the west half of Sec-
	23	production, I point out two wells
	24	production, I point out the production, I point out the Aminoil-Burma CNB tion 11, an Atoka completion there, the Aminoil-Burma CNB tion 11, an Atoka completion there, the Aminoil-Burma CNB tion 11, an Atoka completion there, the Aminoil-Burma CNB tion 11, an Atoka completion there, the Aminoil-Burma CNB tion 11, an Atoka completion there, the Aminoil-Burma CNB tion 11, an Atoka completion there, the Aminoil-Burma CNB tion 11, an Atoka completion there, the Aminoil-Burma CNB tion 11, an Atoka completion there, the Aminoil-Burma CNB tion 11, an Atoka completion there, the Aminoil-Burma CNB tion 11, an Atoka completion there, the Aminoil-Burma CNB tion 11, an Atoka completion there, the Aminoil-Burma CNB tion 11, and the Aminoil-Burma CNB tion
	25	tion 11, an Atoka compression of 1.49 Bcf, and finally, has had a cumulative production of 1.49 Bcf, and finally,

15 the Aminoil-Burma Willow Lake Unit No. 1 in the north half 3 of Section 22 has had a cumulative production of 2.9 Bcf. Based on those adjacent wells and looking at previous production in the area, we can expect a 5 minimum of 2 Bcf out of this well. Now would such a recovery be expected to pay all costs of drilling, completing, and producing such a well, as well as return a profit to the unit owners? 10 Yes, sir, it is my estimation that it 11 would. MR. MOTE: Now we'll offer our exhibits 12 into evidence and tender for cross examination. 13 14 MR. STAMETS: The exhibits are admitted. 15 Are there any other que tions of the witness? He may be 16 excused. Anything further in this case? 17 The case will be taken under advisement.

MR. MOTE: Thank you, sir.

(Hearing concluded.)

CERTIFICATE

I, SALLY W. BOYD, C.S.R., DO HEREPY CERTIFY that the foregoing Transcript of Hearing before the Oil Conservation Division was reported by me; that the said transcript is a full, true, and correct record of the hearing, prepared by me to the best of my ability.

Soony W. Boyd CSE

I do hereby certify that the foregoing is a complete record of the proceedings in the Examiner hearing of Case No. 72/5,

, Examiner

Oil Conservation Division

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STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION
STATE LAND OFFICE BLDG.
SANTA FE, NEW MEXICO
8 April 1981

EXAMINER HEARING

IN THE MATTER OF:

Application of Amoco Production Com-)
pany for an unorthodox gas well
location, Eddy County, New Mexico.

7215

BEFORE: Richard L. Stamets

TRANSCRIPT OF HEARING

APPEARANCES

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Ernest L. Padilla, Esq. Legal Counsel to the Division State Land Office Bldg. Santa Fe, New Mexico 37501

For the Applicant:

Clyde A. Mote, Esq.
Amoco Production Company
500 Jefferson Bldg.
Houston, Texas 77002

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MR. PADILLA: Application of Amoco

Production Company for an unorthodox gas well location, Eddy County, New Mexico.

MR. MOTE: Clyde Mote, representing Amoco, in conjunction with Atwood and Malone, and we have one witness.

(Witness sworn.)

MR. MOTE: Mr. Examiner, I'd like to make a short opening statement to sort of tie this case together because there are some loose ends.

This Willow Lake Unit was approved as a Federal exploration unit on March 26th of 1975 by the New Mexico Commissioner of Public Lands. And on March 27th, '75, by the Area Oil and Gas Supervisor for the USGS.

It's located in Eddy County and originally contained 4800 acres. Some 920 acres became excluded out of Sections 28 and 21 during the first year of operation, and the north half of Section 23 was excluded in the previous just -- in the year just past.

Burma Oil and Gas Company was designated as operator when the unit originally formed. Aminoil

has succeeded to all the rights of Burma as operator.

Amoco Production Company has orally agreed to take over unit operation from Aminoil, and although the written assignment has not been executed and delivered to Amoco Production Company, it nevertheless appears to be imminent.

Amoco Production Company desires to change the location of Unit Well No. 4 from its location where it is now currently drilling to Unit Well No. 4-Y, to be drilled 1980 feet from the south line and 660 feet from the west line of Section 14, with the south half of the section dedicated to the well.

Since statewide rules require 1980 feet from the west line, approval is necessary to drill at this worthodox location.

MR. STAMETS: In essence, what Amoco will be doing is abandoning the Well No. 4 that's already been started by Aminoil, and drilling a new well, then.

MR. MOTE: Well, I don't really know how we'd characterize it. We've got to discuss it with USGS as to how the characterization should be.

MR. STAMETS: But in fact that's what is going to happen. You are not going to drill the current Well No. 4 on to total depth.

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2	MR. MOTE: Not if this application is
3	granted, that's correct.
4	MR. STAMETS: And will you advise the
5	Examiner as to the effective date of the operator change sub-
6	sequent to this hearing?
7	MR. MOTE: Yes, sir, sure will.
8	MR. STAMETS: I would imagine what
9	we'll do, then, is hold up this order, hold up issuing the
10	order until we have been advised of that change, that that
11	change has taken place.
12	MR. MOTE: All right.
es, i	
13	
14	HENRY G. DEWITT
15	being called as a witness and being duly sworn upon his oath,
16	testified as follows, to-wit:
17	
18	DIRECT EXAMINATION
19	BY MR. MOTE:
20	Q Would you please state your name, by
21	
	whom you're employed, and in what capacity and location?
22	A. Yes, sir. My name is Henry G. Dewitt

23

24

25

and I'm currently living in Houston, Texas, and I'm employed

Have you previously testified before

by Amoco Production Company as a petroleum geologist.

certain exhibits.

1

Were these exhibits either prepared by you

1	7
2	or under your supervision and direction?
3	A. Yes, sir, they were.
4	Q If you would, please turn to your Exhib.
5	Number One. I notice several different colors of dots on
6	this map. Would you please explain the significance of those
7	to the Examiner?
8	A. Okay. What you see here on my first
9	exhibit is a base map or plat of the Malaga area. Highlighte
10	by the various colored dots are the various initial completion
11	in the area. The blue dots represent Strawn Pennsylvanian
12	completions; the green dots represent Atoka completions; the
13	red dots represent Morrow completions; and finally, the tan
14	or orange dots represent those wells testing.
15	Q And how is the Willow Lake Unit outline
16	shown on this map?
17	A. You can see in Township 24 South,
18	Range 28 East, a hachured line bordering through Sections 14
19	15, and 16, along the west sides of Sections 16, 21, and 28,
20	the south of Sections 28, 27, and 26, and finally, to the
21	east in Sections 26, 23, and 14.
22	Q And how is the well that's currently

drilling shown on this map?

23

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In the south half of Section 14,

Township 24 South, Range 28 East, there's a solid orange dot,

indicating the Willow Lake Unit No. 4 Well, currently drilling with cable tool.

4.

And how is the proposed well shown?

A. Indicated by the red arrow, the Willow Lake Unit No. 4-Y is located 1980 from the south line and

660 from the west line of Section 14.

Q How many wells have been completed in this unit?

in the unit. The first well was the Willow Lake or the Burma Willow Lake Unit No. 1, located in the north half of Section 22. A second completion was the Burma Willow Lake Unit No. 3, a Morrow completion, shown in the south half of Section 15; and finally, a non-unit well, the Maddox Petroleum well was initially completed in January of this year in the north

half of Section 23; 1.9 million a day out of the Pennsylvanian

Morrow.

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19 Ω I notice you have certain items of 20 information highlighted in yellow. What's -- what's the

A Yes, sir, that's correct. Highlighted

in yellow underneath each of the various completion symbols seen on the map is the cumulative production and the latest

daily rate for those wells as of December 31st, 1980.

1	9
2	All right, if you would, turn to your
3 .	Exhibit Number Two, which I believe is your Isopach map.
4	A. Yes, sir. Here what you see here is
5	a sand Isopach or sand limits map of an inferred Atoka Channel
6	system that prograded through the area in Atoka time.
7	Q. And do the same dots on this map, are
8	they the same with the same reasons and explanations as
9	was on the previous exhibit?
10	A. Yes, sir, just as I've done before.
11	I've used the same color coding, blue for Strawn, green for
12	Atoka, red for Morrow, and finally, those wells testing. I've
13	highlighted those Atoka completions within the inferred
14	channel system as identified by the squares represented
15	adjacent to the green dots. You've seen their cumulative
16	production and their daily rate currently as of December
17	31at, 1980.
18	Q. And what control do you have for this
19	interpretation?
20	A. The controls I have available are those
21	wells which have been identified on this base map.
22	Q And how did you go about constructing
23	this exhibit?
24	A I used electric logs, sample logs,

and mud logs where they were available, and calculating the

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                                                        10
    net footage of Atoka Sand present or not present in these
    wellbores.
                         And what's the environment of the
    deposition?
                         Based on the work I've done here, the
    geometry of these sands, their relationship to surrounding
    limestones and shales, it's my interpretation that this re-
    presents an ancient fluvial system that drained through the
10
    Malaga area.
11
                         And what is the nature of these deposits?
12
                         These are highly lenticular in nature.
13
   They're widely variable. You can see that the channel system
14
   is not more than probably 3/4 to a mile wide.
15
               All right. Your proposed well is shown
16
   on this map also by the same arrow as was on the previous
17
   map, is that correct?
18
                         Yes, sir, that's correct. You see it
   in Section 14.
20
                         And immediately to the east of the
   proposed well you'll see the same well No. 4, Unit Well No. 4,
   that is currently drilling, is that correct?
                         Yes sir.
                         I notice that it's almost off of your
   contours for the Atoka. Is that correct? It's in the shale
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area?

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A. Yes, sir, it's right on the border.

Based on my control in the area I can estimate probably four to five feet of net Atoka Sand might be available to it at that location.

Now why do you want to move the location

Number one, that again the boundary of this inferred channel system is still inferred. The advantage of moving the well to the west may give us anywhere from 17 to 18 feet of net Atoka Channel Sand to us.

Secondly, those wells which were completed in the central portions of these -- of this channel system appear to have a substantially higher reservoir quality and higher cumulative rates.

If I might point your attention to the north in Township 23 South, Range 28 East, Delta drilled two wells, their South Culebra Bluff in the east half of Section 23, and finally their second Culebra Bluff Unit Well in the east half of Section 14.

If you look at the cumulative rates of those two wells, or the cumulative production, the Delta Culebra Bluff well in Section 23 has cum approximately 12.7 Bcf as of December, 1980, whereas the second Culebra Bluff

Well has cumed only 371 million cubic feet of gas.

•

R

The importance here is that the higher cumulative production is associated with 24 feet of net Atoka sand, whereas those wells on the periphery of this channel system, 8 feet in this case, appear to have substantially less cumulative production.

Finally, we would substantially reduce our risk in drilling this well if we were to move it to the west.

about the Atoka. Is there any possibility of encountering any other zones?

A. Yes, sir, there's also significant potential existing in the Pennsylvanian Strawn and Pennsylvanian Morrow formations.

Q Would your Exhibit Number Three suggest this?

Number Three, again this is — again I've used the same color coding as seen in the previous two maps. What I'd like to show here, this does depict the structural contour map with subsea values calculated from the various electric logs; on the top of the Pennsylvanian Strawn you can see that our location currently in the south half of Section 14, the proposed

.

Willow Lake Unit No. 4-Y would be located to the west of that.

It is my estimation that we'd gain about 30 feet of structure relief, if we were to move this location to the west.

As I said before, the Pennsylvanian

Strawn is known to be productive in the area, along with the

Pennsylvanian Morrow formation. There were several reservoirs

identified in the Maddox-Earl Guitar No. 1 in the north half

of Section 23, Township 24 South, Range 28 East. Only one of

those was -- was a successful completion. The others, two or

three reservoirs were indicated to be wet by log analysis.

If we could encounter those reservoirs additionally up-dip it might allow us to make a successful gas completion in those Morrow reservoirs, along with the Pennsylvanian Strawn.

- And it's your testimony that this exhibits shows the change in location would favor a Strawn well as well as a Morrow location over the existing location that is now drilling?
 - A. Yes, sir, that's correct.
- O Do you have an opinion as to whether or not the proposed location would enhance the probability of a successful commercial completion in the Atoka, Strawn, and Morrow, as compared to the existing drilling location?

A. Yes, I do.

What is your opinion?

Briefly, in summarizing the data that

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we have presented here, I think you can see that again we would substantially be reducing our risk if we were to move this location to the west as identified in my Exhibit Number Two. We can expect to encounter an increased amount of net Atoka sand available to us of substantially high reservoir quality and hopefully substantial reserves. Additionally, up dip potential would

contribute to a successful completion in the Pennsylvanian Strawn and Morrow formations, as identified on my enclosure Number Three, Exhibit Number Three.

Has an estimate been made of the cost to drill and complete a well in the -- this Well No. 4-Y which you're asking to drill?

Yes, sir, and that is approximately \$1.9 million.

All right, has an estimate been made of the probable recoverable reserves that might be obtained from this well?

Yes, sir. Based on the offset λ. production, I point out two wells in the west half of Section 11, an Atoka completion there, the Aminoil Burma CNB has had a cumulative production of 1.49 Bcf, and finally,

21

CERTIFICATE

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

Sway W. Boyl CSE

I do hereby certify that the foregoing is a complete record of the proceedings in the Examiner hearing of Case No. heard by me on_ , Examiner

Oil Conservation Division

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Aminoli USA, Inc. Loraine Center 601 N. Loraine Street Midland, Texas 79701 (915) 682-8231

AMINOIL USA

Core No 7216

April 6, 1981

State of New Mexico Energy and Mineral's Department Oil Conservation Division P. O. Box 2088 Santa Fe, New Mexico 87501

Attention: Mr. Joe Ramey

Re: WILLOW LAKE UNIT NO. 4 WELL SECTION 14, T-24-S, R-28-E, EDDY COUNTY, NEW MEXICO AUSA FILE NO. 2841

Gentlemen:

As you are aware, Aminoil is currently the operator of the Willow Lake Unit located in T-24-S, R-28-E, Eddy County, New Mexico. As Unit Operator, Aminoil is currently drilling that certain well designated the Willow Lake Unit No. 4 Well, at a location being 1980' FSL and 1980' FWL of Section 14, T-24-S, R-28-E. Aminoil is currently negotiating with Amoco Production Company concerning Aminoil's resignation as Unit Operator and terms by which Amoco would take over as Unit Operator of the Willow Lake Unit. In this connection Amoco has requested to change the location of said Willow Lake Unit No. 4 Well to a location designated No. 4-Y being 1980' FSL and 660' FWL of Section 14, T-24-S, R-28-E.

We understand that Amoco has applied for your approval of this new proposed location as an unorthodox location. Please be advised that Aminoil, as Unit Operator of the Willow Lake Unit, does not object to Amoco's request for said change in location.

Yours very truly,

James L. Whalon District Landman

District Lands

JLW/sls

cc: Amoco Production Company Attention: James Allen APR 0 8 1981

OIL COME SVATION DIVISION

ATWOOD, MALONE, MANN & COOTER

A PROFESSIONAL ASSOCIATION LAWYERS

JEFF D. ATWOOD [1883-1970] ROSS L. MALONE [1910-1974]

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

CHARLES F. MALONE
RUSSELL O. MANN
PAUL A. COOTER
BOB F. TURNER
JOHN W. BASSETT
ROBERT E. SABIN
BRIAN W. COPPLE

STEVEN L.BELL WILLIAM P. LYNCH RODNEY M. SCHUMACHER

March 30, 1981

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

Mexico 87501

Examiner Hearing - Wednesday April 8, 1981
Cause No. 7215

Dear Mr. Ramey:

We would appreciate your filing the enclosed Entry of Appearance for Amoco Production Company in Cause No. 7215.

Your assistance in this matter is appreciated.

Very truly yours,

Paul Cooter

PC/le

Enc.

cc: C. A. Mote, Esq.

BEFORE THE OIL CONSERVATION COMMISSION

STATE OF NEW MEXICO

IN THE MATTER OF THE APPLICATION)
OF AMOCO PRODUCTION COMPANY FOR)
AN UNORTHODOX GAS WELL LOCATION,)
EDDY COUNTY, NEW MEXICO.)

ENTRY OF APPEARANCE

The undersigned hereby enter their appearance on behalf of Amoco Production Company with C. A. Mote of Houston, Texas.

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

Ву

P. O. Drawer 700

Roswell, New Mexico 88201

Dockets Nos. 14-81 and 15-81 are tentatively set for April 22 and Nay 6, 1981. Applications for hearing must be filed at least 22 days in advance of hearing date.

DOCKET: EXAMINER HEARING - NEDNESDAY - APRIL 8, 1981

9 A.M. - OIL 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 7086: (Continued from the January 14, 1981, Examiner Hearing)

Application of Blackwood & Nichols Company, Ltd. for designation of a tight formation, San Juan and Rio Arriba Counties, New Mexico. Applicant, in the above-styled cause, seeks the designation of the Pictured Cliffs formation underlying portions of Townships 30 and 31 North, Ranges 6, 7, and 8 West, containing 33,500 acres, more or less, as a tight formation pursuant to Section 107 of the Natural Gas Policy Act and 18 CFR Section 271.701-705.

- CASE 7210: Application of Gulf Oil Corporation for a unit agreement, Lea County, New Mexico. Applicant, in the above-styled cause, seeks approval for the East Hat Mesa Unit Area, comprising 2197 acres, more or less, of State and Federal lands in Township 21 South, Range 33 East.
- CASE 7211: Application of Gulf Oil Corporation for a unit agreement, Lea County, New Mexico. Applicant, in the above-styled cause, seeks approval for the North Rock Lake State Unit Area, comprising 2880 acres, more or less, of State land in Township 22 South, Range 35 East.
- CASE 7212: Application of Bass Enterprises Production Co. for a dual completion, Eddy County, New Mexico.

 Applicant, in the above-styled cause, seeks approval for the dual completion of its Poker Lake
 Unit Well No. 50 located in Unit C of Section 4, Township 25 South, Range 31 East, to produce gas
 from the Atoka and Wolfcamp formations through the tubing and casing-tubing annulus, respectively.
- CASE 7213: Application of Exxon Company USA for a dual completion and downhole commingling, Lea County, New Mexico. Applicant, in the above-styled cause, seeks authority to dually complete its J. L. Greenwood Well No. 13 located in Unit L of Section 9, Township 22 South, Range 37 East, to produce oil from the Brunson-Fusselman Pool through tubing and commingled Blinebry and Tubb production through the casing-tubing annulus.
- CASE 7214: Application of Pioneer Production Corporation for downhole commingling, San Juan County, New Mexico. Applicant, in the above-styled cause, seeks approval for the downhole commingling of Chacra and Basin-Dakota production in the wellbore of its Dustin Well No. IE located in Unit J of Section 6, Township 29 North, Range 12 West.
- CASE 7215: Application of Amoco Production Company for an unorthodox gas well location, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks approval for the unorthodox Wolfcamp-Penn location of its Willow Lake Unit Well No. 4Y to be drilled 1980 feet from the South line and 660 feet from the West line of Section 14, Township 24 South, Range 28 East, the S/2 of said Section 14 to be dedicated to the well.
- CASE 7216: Application of Amoco Production Company for downhole commingling, Rio Arriba County, New Mexico.

 Applicant, in the above reyled cause, seeks approval for the downhole commingling of Gallup and Chacon-Dakota production in the wellbore of its Jicarilla 396 Well No. 1 located in the NE/4 of Section 8, Township 23 North, Range 3 West.
- CASE 7217: Application of Harvey E. Yates Company for an unorthodox gas well location, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks approval for the unorthodox Morrow location of its Travis Chio State Com Well No. I to be drilled 660 feet from the South and West lines of Section 13, Township 18 South, Range 28 East, the S/2 of said Section 13 to be dedicated to the well.
- CASE 7218: Application of Yates Petroleum Corporation for an unorthodox gas well location, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks approval for the unorthodox Wolfcamp-Penn location of its Federal "BQ" Well No. 7 to be drilled 660 feet from the North line and 990 feet from the West line of Section 27, Township 17 South, Range 25 East, the N/2 of said Section 27 to be dedicated to the well.
- CASE 7165: (Readvertised)

Application of ARCO Oil and Gas Company for compulsory pooling, Lea County, New Mexico. Applicant, in the above-styled cause, seeks an order pooling all mineral interests in the Ellenburger, Strawn, McKee, and Devonian formations, Langley Field, underlying the N/2 of Section 33, Township 22 South, Range 36 East, to be dedicated to a well to be drilled at a standard location thereon. Also to be considered will be the cost of drilling and completing said well and the allocation of the cost thereof as well as actual operating costs and charges for supervision, designation of applicant as operator of the well, and a charge for risk involved in drilling said well.

ATWOOD, MALONE, MANN & COOTER

A PROFESSIONAL ASSOCIATION
LAWYERS

JEFF D. ATWOOD [1883-1960] ROSS L. MALONE [1810-1974]

P.O. DRAWER 700 SECURITY NATIONAL BANK BUILDING ROSWELL, NEW MEXICO 88201 [\$05] 622-8221

April 3, 1981

CHARLES F. MALONE RUSSELL D. MANN PAUL A.COOTEH BOB F. TURNER JOHN W. BASSETT ROSERT C. SADIN BRIAN W. COPPLE

STEVEN L.BELL WILLIAM P. LYNCH RODNEY M. SCHUMACHER

Mr. Joe D. Ramey Oil Conservation Division State Land Office Building P. O. Box 2088 Santa Fe, New Mexico 87501

Re: Examiner Hearing April 8

Dear Mr. Ramey:

Please file the enclosed Entry of Appearance in behalf of Amoco Production Company.

I enjoyed visiting with you at Portales.

Very truly yours,

Charles F. Malone

CFM:dh Enclosure cc (w/ encl.): Gordon D. Ryan, Esquire

APROS 1981

OIL CONSERVATION DIVISION SANTA FE

BEFORE THE OIL CONSERVATION DIVISION

STATE OF NEW MEXICO

APPLICATION OF AMOCO PRODUCTION COMPANY FOR DOWNHOLE COMMINGLING IN JICARILLA 396 WELL NO. 1, NE% Section 8, Township 23 North, Range 3 West, Rio Arriba County, New Mexico.))))	Case No,	7216
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ENTRY OF APPEARANCE

The undersigned Atwood, Malone, Mann & Cooter, P.A. enters its appearance herein in behalf of Amoco Production Company with Gordon D. Ryan, Esquire of Denver, Colorado.

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

P. O. Drawer 700

Roswell, New Mexico 88201 Telephone: 505-622-6221



Richard E. Ogden Regional Engineering Manager



Amoco Production Company

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

March 13, 1981

File: JCA-986.51NM-493

Re:

Application for Hearing Unorthodox Gas Well Location Willow Lake Unit Well No. 4Y Eddy County, New Mexico

Case 7215

State of New Mexico Energy and Minerals Department 011 Conservation Division P. 0. Box 2088 Santa Fe, NM 87501

Attention: Mr. Joe D. Ramey

Gentlemen:

Amoco Production Company respectfully requests a hearing to consider our application to drill the Willow Lake Unit Well No. 4Y at the following unorthodox location:

1980' FSL X 660' FWL, Section 14, T-24-S, R-28-E, Eddy County, New Mexico

The subject well is projected to be drilled to 13,500' as a Pennsylvanian

Aminoil is currently operator of record of the Willow Lake Unit. Negotiations are now underway for Aminoil to resign as Unit Operator and Amoco Production Company to become Unit Operator.

Please place this item on the Examiner's Hearing Docket of April 8, 1981. This confirms our verbal request of March 13, 1981. Any questions can be directed to Mr. Jim Allen, telephone (713) 652-5497.

Yours very truly,

L.E. Ogder ga

Phillips, 73 M McNutt | \ LJomes AmyMeNdi 1 29.BI inimoil Williams E. McNest Bur. Oir. Amy & Dye Carlsbad Surface Nat'! Bk, eta/ Divided R, Ward C.F. Beeman W.J. Burkham Jim Lopez A. Duarte. Ruiz Mrs.L.B.Jemes 1/2M.l.» etal R.G. Borton. R.G. Bor Aminoit 12-22-82 11 . 3 . 83 Adams 11-1-84 Sm.Trs. Ann Mil. W.C.I. Wilson ituer Makaga Men-PROPOSED Barton **Aminoit** LOCATION enerette 8-29-77 7.30.03 minoil Aminoil 5 23.80 8-20-79 G. Warren Aminoil M. Ben-1 Aminoil . 23.77 10.9.79 HNG 9 • 20:79 JP. Vincent Ouida & Scaweii WAMILES Aminoll Aminoil Aminoil 2.25.79 Pool Drie 8.23.77 8・23・77 ING OFF F.W. Aminoit T**O 2**735 Courtney D/A 11-16-77 8 . 23 . 77 Maddox Ener. Maddox (Sun) 12-1-80 11.16.80 Ener. Pardue Farms O International 12 -1 -80 Inter-Mins.&Chem(S)



Richard E. Ogden Regional Engineering Manager

March 13, 1981

Amoco Production Company

Houston Region
500 Jefferson Building
Post Office Box 3092
Rousidn, Texas 77001
MAR 3 0 1981

OIL CONSTRUCTION DIVISION

SANTA FE

File: JCA-986.51NM-493

Application for Hearing

Unorthodox Gas Well Location Willow Lake Unit Well No. 4Y

Eddy County, New Mexico

Case 7215

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

Attention: Mr. Joe D. Ramey

Gentlemen:

Amoco Production Company respectfully requests a hearing to consider our application to drill the Willow Lake Unit Well No. 4Y at the following unorthodox location:

1980' FSL X 660' FWL, Section 14, T-24-S, R-28-E, Eddy County, New Mexico

The subject well is projected to be drilled to 13,500' as a Pennsylvanian test.

Aminoil is currently operator of record of the Willow Lake Unit.

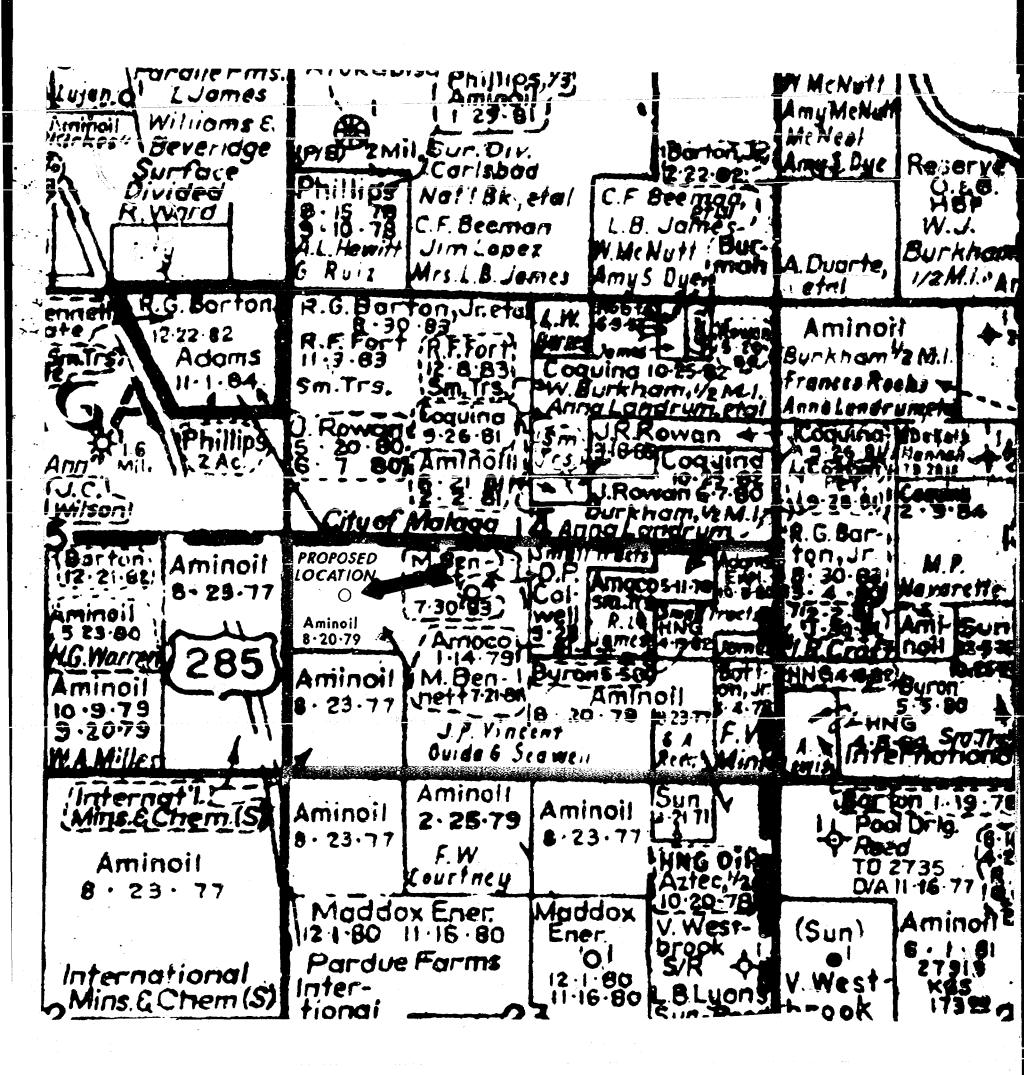
Negotiations are now underway for Aminoil to resign as Unit Operator and Amoco Production Company to become Unit Operator.

Please place this item on the Examiner's Hearing Docket of April 8, 1981. This confirms our verbal request of March 13, 1981. Any questions can be directed to Mr. Jim Allen, telephone (713) 652-5497.

Yours very truly,

A. E. Ogdergan

1





MAR 3 0 1981 Arroco Production Company
OIL CONSERVATION 1800 Selection Building
SANTA FE Post Office Box 3092
Houston, Texas 77001

Richard E. Ogden Regional Engineering Manager

March 13, 1981

File: JCA-986.51NM-493

Re:

Application for Hearing Unorthodox Gas Well Location Willow Lake Unit Well No. 4Y Eddy County, New Mexico case 7215

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

Attention: Mr. Joe D. Ramey

Gentlemen:

Amoco Production Company respectfully requests a hearing to consider our application to drill the Willow Lake Unit Well No. 4Y at the following unorthodox location:

1980' FSL X 660' FWL, Section 14, T-24-S, R-28-E, Eddy County, New Mexico

The subject well is projected to be drilled to 13,500' as a Pennsylvanian test.

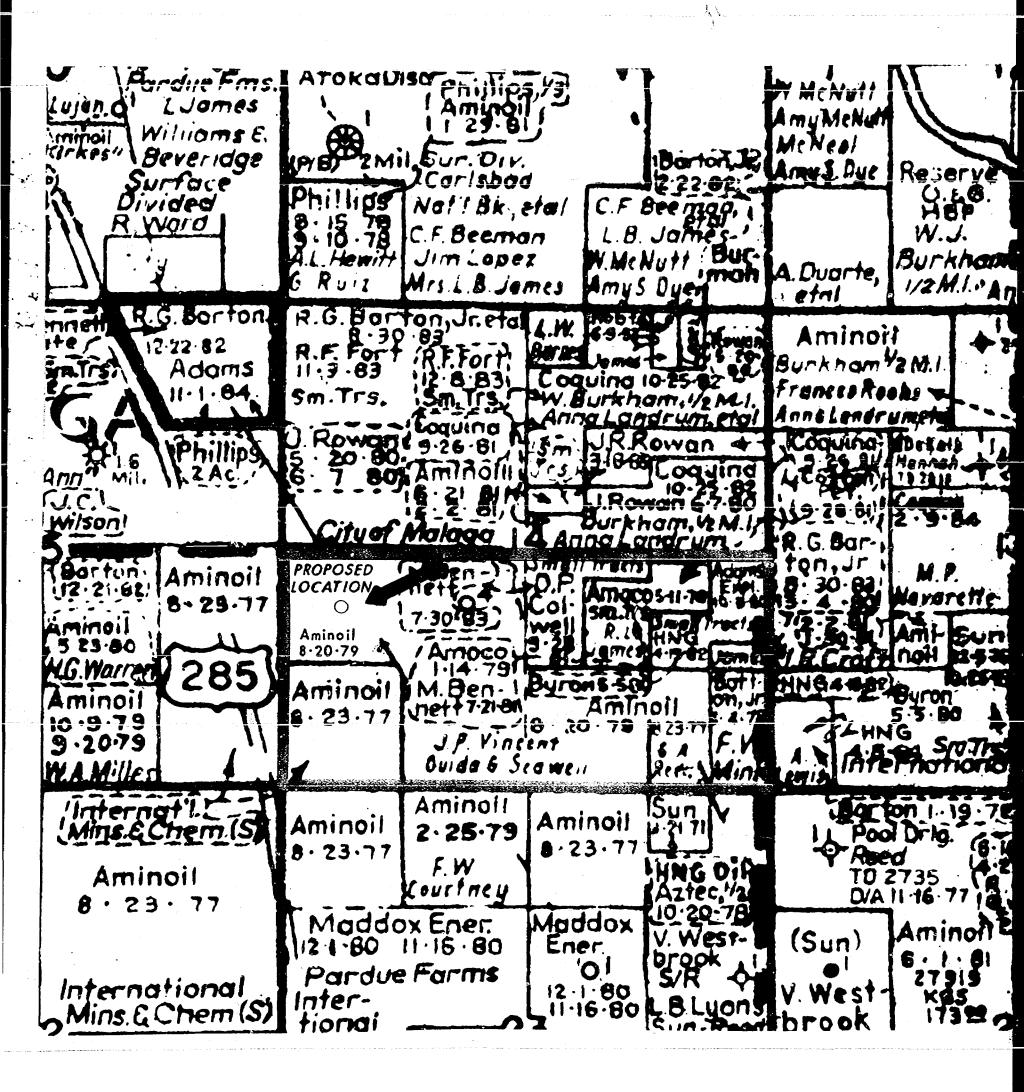
Aminoil is currently operator of record of the Willow Lake Unit. Negotiations are now underway for Aminoil to resign as Unit Operator and Amoco Production Company to become Unit Operator.

Please place this item on the Examiner's Hearing Docket of April 8, 1981. This confirms our verbal request of March 13, 1981. Any questions can be directed to Mr. Jim Allen, telephone (713) 652-5497.

Yours very truly,

D. E. Ogder ga

Ja





Merch 13, 1981

FF No: 3CA-986.51891-493

Case 7215

Application for Hearing imprehodox 645 Hell Location Willow Lake Unit Hellow. 47 Eddy County, New New York

State of her liexico ANTI-MASSERVATION Division P. 0. Box 2088 Sante Fe, IN 87501

Attention: W. the B. Jane

- Lengthener:

Production Company respectfully requests a learning to consider on application to drill the Willow Late Boit Well to. 47 at the following Application:

1980' FSL I 560' FM, Section M. T. Section M. T. Section M. T. Section M. T. Section Marketice

the subject will is projected to be drilled to 13,500 as a decomplementar

minori is currently operator of years of the left but take 1872. Appointment of currently operator of vectors of the molecular and appointment of company to become suit specially.

This confirms our vertal request of March 13, 1981 for the 11 B, 1981 be directed to Mr. Jim Allen, telephone (713) 652-5697. Moors very truly,

R. C. Ogden



Amont Production Commerce.

Houston Region 500 Jefferson Building Post Office Bax 3/202 Houston, Taiws 17/001

Rerck 13. 1981

FFTe: JCA-905.5100-003

Application for thering and theretion Willow Lake Unit Hell No. 47 Eddy County, New Resico

Case 7215

1117

State of Service inery and Riversis Department SEL Conservation Division P. C. Kox 7000 Sarta Fe. 10 8/501

Attention: Mr. Joe D. Ramey

Amon Production Company respectfully requests a hearing to consider our applications to driff? the Willow Lake Unit Well No. 4Y at the following morchales Incation:

> 1990' FSL X 660' FRL, Section 14, T-24-5, 28-E. Eddy County: New Mexico

The subject and its projected to be drilled to 13,500 as a Pennsylvanium

Trimed is community operator of record of the Millon Lake Unit. temp freeholites Company to become Ouit Operator.

Steete times this free on the Examiner's Hearing Docket of April 8, 1981 into convictor our vertal request of March 13, 1981. Any questions our sector to Mr. Jim Alien, telephone (713) 652-5497.

the new toning

R. E. Ogalina

Topp of Tomoed Box Willow lake Unit #44 19805 660W 14-245-28E Edy Coumty 13500 Penn Wolfcamp thru Pennsylvanian formations 5/2 dedication in 19/1en 3-13-8/

STATE OF NEW MEXICO ENERGY AND HIMERALS DEPARTMENT OIL CONSERVATION DIVISION

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

ocation.

ORDER NO. R- 16654
APPLICATION OF AMOCO PRODUCTION COMPANY
FOR AN UNORTHODOX GAS WELL LOCATION,
EDDY COUNTY, NEW MEXICO.
De
ORDER OF THE DIVISION
BY THE DIVISION:
This cause came on for hearing at 9 a.m. on April 8
19 81, at Santa Fe, New Mexico, before Examiner Richard L. Stamets
NOW, on this day of April , 1981 , the Division
Director, having considered the testimony, the record, and the
recommendations of the Examiner, and being fully advised in the
premises,
FINDS:
(1) That due public notice having been given as required by
law, the Division has jurisdiction of this cause and the subject
matter thereof.
(2) That the applicant, Amoco Production Company for its Willow Lake Unit Well No. 4Y to be drilled seeks approval of an unorthodox gas well location/ 1980
feet from the South line and 660 feet from the
West line of Section 14 , Township 24 South
Range 28 East , NMPM, to test the Wolfcampe Ennsylvanian
formationS, Eddy
County, New Mexico.
(3) That the S/2 of said Section 14 is to be
dedicated to the well.
(4) That a well at said unorthodox location will better
enable applicant to produce the gas underlying the proration unit.
(5) That no offset operator objected to the proposed unorthodox

7215

CASE NO.

-2-		
Case No.	The second secon	
Order No	. R-	

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

IT IS THEREFORE ORDERED:

(1) That a the Amoco P formation is here					camp-Penney/vand No. 4Y t 1980
feet from the	South	line and _	660 feet	from the	lest
line of Section _	14	, Township _	24 South	, Range _	28 East
NMPM,		-		Por, Eddy	County,
New Mexico.					

- (2) That the 5/2 of said Section 14 shall be dedicated to the above-described well.
- (3) That jurisdiction of this cause is retained for the entry of such further orders as the Division may deem necessary.

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