

0 CASE 6065: ODESSA NATURAL CORP. FOR
A SPECIAL WELL CLASSIFICATION,
RIO ARRIBA COUNTY, NEW MEXICO

tion

Case Number

6065

Application

Transcripts.

Small Exhibits

ETC.

PETROLEUM ENGINEERING
RESERVOIR STUDIES
EVALUATIONS
GEOLOGICAL STUDIES

LEASE MANAGEMENT
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BEFORE THE
NEW MEXICO OIL CONSERVATION COMMISSION
Santa Fe, New Mexico
12 October, 1977

EXAMINER HEARING

IN THE MATTER OF:)
)
Application of Odessa Natural Corporation) CASE
for a special well classification, Rio) 6065
Arriba County, New Mexico.)

BEFORE: Richard L. Stamets.

TRANSCRIPT OF HEARING

A P P E A R A N C E S

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

For the Applicant: Gary R. Kilpatric, Esq.
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EWELL N. WALSH

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1 MR. STAMETS: Call next Case 6065.

2 MS. TESCHENDORF: Case 6065. Application of
3 Odessa Natural Corporation for a special well classification,
4 Rio Arriba County, New Mexico.

5 MR. STAMETS: Call for appearances in this case.

6 MR. KILPATRIC: Yes, I'm Gary Kilpatric from the
7 law firm of Montgomery, Andrews and Hannahs, Santa Fe, New
8 Mexico, representing the applicant. We have one witness, Mr.
9 Walsh.

10 (Witness sworn.)

11
12 EWELL N. WALSH

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

15
16 DIRECT EXAMINATION

17 BY MR. KILPATRIC:

18
19 Q Will you please state your name, your address,
20 your occupation, and your relationship to the applicant in
21 this case for the record?

22 A My name is Ewell N. Walsh. I'm president of Walsh
23 Engineering and Production Corporation, Farmington, New
24 Mexico. I'm acting as consultant to the client -- to the
25 Odessa Natural Corporation.

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1 Q Have you previously testified before the Commis-
2 sion?

3 A Yes, I have.

4 Q Have your qualifications as a petroleum engineer
5 been accepted by this Commission?

6 A They have.

7 Q Would you briefly state what you are seeking in
8 this case?

9 MR. KILPATRIC: Please, Mr. Examiner, have the
10 witness' qualifications been accepted and are they satisfac-
11 tory?

12 MR. STAMETS: They are.

13 MR. KILPATRIC: Thank you.

14 A We are seeking classification of the Odessa Natural
15 Corporation ARCO-Little Federal Number 1 Well, located in
16 Unit D, Section 32, Township 24 North, Range 3 West, Rio
17 Arriba County, New Mexico, as a gas well rather than an oil
18 well under the definition of oil and gas wells as set forth
19 in the Special Rules for the Chacon-Dakota Associated Oil
20 Pool.

21 We are requesting an exception to such rules which
22 define an oil well as any well with a GOR of less than 30,000
23 standard cubic feet of gas to one barrel of oil, and a gas
24 well as any well with a GOR of 30,000 or more cubic -- 30,000-
25 to-1 or more.

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1 We will show through that oil well initially the
2 GOR of the ARCO-Little Federal No. 1 Well was only 4,190-to-1,
3 and our experience in this pool shows that this will soon be
4 increased to more than 30,000-to-1.

5 Although the ARCO-Little Federal No. 1 Well has
6 not yet officially been classified as being in the Chacon-
7 Dakota Associated Oil Pool, we believe that it should and
8 will soon be so classified. In fact, an application to so
9 be classified will be heard at this hearing.

10 Q Will you delineate the history of the well for the
11 Examiner?

12 A The ARCO-Little Federal No. 1 was spudded by
13 Odessa Natural Corporation on June 7th of 1977. 4-1/2 inch
14 casing -- production casing was run to a depth of 2688 feet
15 on July 10th, 1977.

16 The well was perforated and sand and water fractured
17 in two intervals of the Dakota Formation and was completed
18 on July 28th, 1977.

19 Q Referring to what has been marked Exhibit Number 1,
20 a map, could you explain this to the Commission, please?

21 A This is a map, basically of Township 23 North,
22 Range 3 West, and the surrounding town -- sections.

23 On this map, as indicated by the solid circles or
24 dots, are the wells that are currently producing or are com-
25 pleted preparing to be produced in the area the Chacon-Dakota

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1 Associated Oil Pool. Also the circles which are not closed
2 in are locations for proposed wells in this area.

3 The subject well of this hearing, the ARCO-Little
4 Federal No. 1 is indicated on the map by the arrow in the
5 northwest quarter of Section 32, Township 24 North, Range 3
6 West.

7 Also on the map, in the small dashed line, is the
8 current horizontal limits of the pool.

9 The heavy dashed line is the proposed horizontal
10 limits for the pool. There is a drafting error. The south-
11 west quarter of Section 4, Township 23 North, Range 4 West
12 should have been included within that parameter.

13 Q Do you concur in the proposed extension of the
14 Chacon-Dakota Associated Pool?

15 A Yes, I do. The ARCO-Little Federal is completed
16 in the same geological horizons as the majority -- all the
17 wells within the majority of the pool.

18 Q Referring to what has been marked as Exhibit Number
19 2, would you explain that?

20 A Exhibit Number 2 is a plot or curve of the monthly
21 gas/oil ratios as determined from the monthly oil and monthly
22 gas production. On this you will note that the GOR are on
23 the vertical side of the scale. These numbers, 10, 20, 30,
24 are actually 10,000, 20,000, and 30,000.

25 The heavy line at the 30,000 GOR indicates the

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1 breakover GOR below which a well is classified an oil well;
2 above which the well is classified as a gas well under the
3 pool rules.

4 The -- horizontally you have indicated there months
5 These are months starting with the first month of production
6 after the well was tied in to the pipeline.

7 All of these wells were not -- were only produced
8 for a very short period of time to clean up and obtain initial
9 potential tests and then they were shut in until a pipeline
10 connection could be made to actually sell gas rather than
11 vent it.

12 On the Exhibit 2, which is of the Odessa Natural
13 Corporation Chacon Jicarilla "D" No. 1, this well is located
14 on the map in the southwest and the southeast quarter of
15 Section 15, Township 23 North, Range 3 West. This was the
16 second well drilled in the field.

17 You may note there on the curve that this wasn't
18 field logged during the first month of sustained production.
19 It was almost 8000-to-1. This GOR increased to a point where
20 in five months it had a GOR of almost 47,000-to-1, and then
21 there are variations continuing across there. Some of them
22 are what you call normal variations in a well's producing
23 capacity; some of them, the lower GOR's have been affected
24 by higher line pressures, which the well had to produce
25 against in the area.

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1 You may note that at the end we had the well shut-
2 in for bottom hole pressure survey, and this well was shut-in
3 for, oh, some forty or forty-five days.

4 Then after the well was brought on production again
5 during that first month the GOR was some 60,000-to-1.

6 Q Referring to what has been marked as Exhibit 3,
7 can you explain that to the Examiner?

8 A Exhibit 3 is also a GOR curve of the Odessa Natural
9 Corporation Chacon Jicarilla "D" No. 2, which is located in
10 the northeast of the southeast quarter of Section 16, Township
11 23 North, Range 3 West.

12 For your information this was the third well that
13 we drilled in the field.

14 Again the graphs are the same. On this well, for
15 this well the initial GOR for the first month, as you can see,
16 is some 10,000-to-1. It increased the second month to above
17 30,000-to-1. It dipped and it did come down below. We made
18 some adjustments in our producing type -- the way we were
19 producing the well. We lowered the GOR but it did overcome
20 this, even, and continued to come back up above 30,000-to-1,
21 and stayed at this point.

22 Again, where it comes down toward the end of the
23 curve below 30,000-to-1, again, this is basically due to
24 higher line pressure, and at the current time this well is
25 still shut-in on bottom hole pressure survey and has been

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1 shut-in some forty, forty-five days, and we plan to leave it
2 another twenty-six.

3 Q Referring to what has been marked Exhibit Number
4 4, would you explain that, please?

5 A Our Exhibit 4 is a GOR curve for the Dave M. Thomas
6 Jr. Chacon Jicarilla Apache "D" No. 3. This well is located
7 in the northwest quarter of the northwest quarter of Section
8 15, Township 23 North, Range 3 West.

9 Again I would like to point out here that your
10 initial GOR for the first month was over -- just over 8000-to-
11 1. This gradually did increase to a high point of almost
12 47,000-to-1 and then there was a drop again due to high line
13 pressure in the area.

14 In this, however, in this well, with the informa-
15 tion I'm getting from the field, the GOR is coming back up
16 and is over 30,000-to-1 at this time.

17 Q Referring to what has been marked as Exhibit Number
18 5, would you explain that, please?

19 A Exhibit Number 5 is also a GOR curve of the Dave
20 M. Thomas Jr. Chacon Jicarilla Apache "D" No. 5, located in
21 the northeast quarter of the northwest quarter of Section 16,
22 Township 23 North, Range 3 West.

23 This well has not been on production as long as
24 some of the other wells. The initial month GOR was some 7500-
25 to-1. It was increasing, was increased to above 30,000-to-1

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1 in six months. Then the seventh month it dropped back, but
2 I would call this kind of a variation in production.

3 Again, this well is -- the GOR is, from field data,
4 coming above -- going above 30,000-to-1.

5 Q Referring to what has been marked as Exhibit 6,
6 will you explain that, please?

7 A Exhibit 6 is a GOR curve of the Odessa Natural
8 Corporation Chacon Jicarilla "D" No. 8, located in the north-
9 east quarter of the northwest quarter of Section 9, Township
10 23 North, Range 3 West.

11 This well also hasn't been producing as long as
12 the others; however, you may note that starting with the
13 initial GOR from 17,500-to-1, the GOR went over -- up to and
14 over the 30,000 line in five months. Again, this well was
15 shut-in for a bottom hole pressure survey of some thirty days.
16 The well was put back on production and you may note at the
17 last part of the curve there how the GOR is rapidly increasing
18 and is now currently, from field data, above 30,000-to-1.

19 Q Why did you select the wells that are delineated
20 on Exhibits 2 through 6 for study?

21 A I selected these wells because they were the closest
22 wells to the subject well in this hearing that had sufficient
23 production history to show how the GOR's were increasing with
24 time in the field and area.

25 Q What do the GOR curves that are shown on Exhibits

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1 2 through 6 indicate to you? If anything?

2 A They indicate to me that for this field area in
3 general, that as the wells are produced their GOR's are basi-
4 cally increasing and will increase above 30,000-to-1 and be
5 classified as gas wells under the Special Pool Rules.

6 Q Referring to what has been marked as Exhibit Number
7 7 would you explain that, please?

8 A Exhibit 7 is the New Mexico Oil Conservation Com-
9 mission's Gas/Oil Ratio Report Form C-116 which was filed with
10 the Commission concerning the initial potential test of the
11 ARCO-Little Federal No. 1.

12 This initial potential test was obtained after
13 flowing the well approximately six days, allowing it to clean
14 up, in other words produce the fract water; however, we did
15 not continue the test any longer because it is simply a waste
16 of gas at the rate of over a million a day; that's considerable
17 money, plus just a waste of energy, and at that time the well
18 was shut-in and at this time remains shut-in waiting on a
19 pipeline connection, which is some two months later; we hope
20 we'll have it on the line.

21 On this Form C-116, in addition to the normal in-
22 formation for the well, you'll note that we potentialled for
23 272 barrels of oil per day, 1,140 MCF of gas per day, giving
24 the well a GOR of 4,190-to-1.

25 Q In your opinion is there anything significantly

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1 different in the initial potential and gas/oil ratio of this
2 well in comparison to the other wells which were illustrated
3 in Exhibits 2 through 6?

4 A. No, I don't see anything real significant differ-
5 ence.

6 Q. How many wells have you supervised drilling and
7 completion of in this area of the pool area?

8 A. Twenty-two.

9 Q. How many wells have been drilled and completed in
10 the area of the pool since the discovery well?

11 A. Twenty-seven.

12 Q. Have you seen anything recently that would indi-
13 cate to you that future wells completed in this pool might
14 be classified as gas wells rather than oil wells?

15 A. Yes. Odessa Natural Corporation's present drilling
16 program is drilling what they call the Jicarilla Joint Venture
17 "KD" Lease, which is in Section 3, 4, and 10 of Township 23
18 North, Range 3 West.

19 We have -- Odessa Natural has drilled wells No. 1,
20 as indicated in the southwest quarter of Section 4; No. 2 in
21 the northwest quarter of Section 10; No. 3 in the northwest
22 quarter of Section 3, and just the last three days ran pro-
23 duction casing on No. 4, which is located in the northwest
24 quarter of Section 4.

25 Jicarilla Joint Venture "KD" 1, and 2 have been

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1 completed and have been flowed to clean-up and a production --
2 or an initial potential test conducted. The wells are cur-
3 rently shut-in. Well No. 3 is completed. Tank battery equip-
4 ment is presently being installed and should -- we should
5 commence the clean-up and production test, oh, today or to-
6 MORROW.

7 Before the Joint -- Jicarilla Joint Venture "KD"
8 No. 1, located in the southeast quarter of Section 4, the
9 initial potential for this well was 120 barrels of oil per
10 day, 1,400 MCF gas per day, with a GOR of 11,670-to-1.

11 For the Jicarilla Joint Venture "KD" No. 2,
12 located in the northwest quarter of Section 10, the initial
13 potential of 88 barrels of oil per day, gas was 1,020 MCF
14 per day; a GOR of 11,590-to-1.

15 By virtue of these two initial potential tests,
16 it indicates to me as this field develops to the north, that
17 we are going to run into higher -- into wells -- have wells
18 that will have a high GOR initially and probably a very short
19 time.

20 Q In your opinion will the ARCO-Little Federal No.
21 1 Well eventually be classified as a gas well rather than as
22 an oil well?

23 A In my opinion, yes, it will.

24 Q If this application is approved, what period of
25 time would you recommend be included in an order as a period

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1 of time to observe production from the ARCO-Little Federal
2 No. 1 Well to determine when the GOR exceeds the 30,000-to-1
3 ratio?

4 A I would recommend one year.

5 Q In your opinion, Mr. Walsh, will the approval of
6 this application be in the best interests of conservation,
7 prevention of waste, and the protection of correlative rights?

8 A Yes.

9 Q Were these exhibits 1 through 7 prepared by you
10 or under your direction?

11 A Yes, they were.

12 MR. KILPATRIC: We request that the exhibits be
13 accepted into evidence.

14 MR. STAMETS: Exhibits 1 through 7 will be ad-
15 mitted.

16 MR. KILPATRIC: We have no more direct testimony
17 and the witness is available for cross examination.

18 We do have one statement to be submitted. It's
19 a statement from Dave M. Thomas, Junior supporting the pool
20 request, and I believe the Commission may also receive a
21 statement from Atlantic Richfield by telegram supporting the
22 request.

23

24

CROSS EXAMINATION

25

BY MR. STAMETS:

1 Q Mr. Walsh, why does Odessa desire this approval
2 of this application?

3 A To enable to produce a well essentially at a good
4 producing rate not detrimental to the reservoir and to deter-
5 mine for this area around -- well, where the subject well is,
6 that this GOR is going to increase.

7 The increasing of the GOR in that manner may bring
8 the thought of the type of development to be for this area;
9 if it does increase at a high gas rate volume the wells pro-
10 bably would be developed on essentially 320 acres; therefore,
11 by being able to conduct this test early in the life -- have
12 this type allowable early in the life of the well, we're
13 trying to essentially prevent economic waste by drilling an
14 unnecessary well and ecological waste by disruption of more
15 territory.

16 Q Ecological waste, I like that.

17 A I had to throw that in.

18 Q To see if I understand this correctly, what you're
19 proposing is that it would be classified as a gas well and
20 have 320-acres dedicated to it thereby precluding the drilling
21 of a second oil well on the other end of the 320.

22 A That's essentially, yes.

23 Q Okay. Now, you asked for a period of one year for
24 this classification. Looking at your Exhibits Number 2 through
25 6, it would appear to me that in almost every case the GOR

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1 increased within a period of six months to a level sufficient
2 to cause the well to be classified as a gas well.

3 A. One of the reasons for a year, this well will be
4 tied in to the gathering pipeline. It will go into a com-
5 pletely different gathering system of El Paso Natural Gas
6 Company than the wells in the major portion of the field.

7 We, at the present time, I know the line pressure
8 is similar in this area but I would hate -- wouldn't want
9 the well to produce under adverse conditions that may prevent
10 the actual production bringing it -- it would cause this GOR
11 to increase. In other words, under different conditions down
12 here in the pool area.

13 Q. You expect higher line pressures?

14 A. I am expecting because of increased flow into a
15 pipeline and other development on the part of some other
16 operators, I would expect a line pressure up there to possibly
17 be higher than down in the main pool area.

18 Q. Okay, now if I understood your testimony correctly,
19 when line pressures are higher gas production decreases and
20 gas/oil ratio decreases.

21 A. That is as indicated, yes.

22 Q. Now, does this indicate to you that more oil will
23 be recovered at lower rates of production in these wells?

24 A. No, there's a change on a day-to-day basis, you're
25 talking about?

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1 Q I'm talking about ultimate recovery. It seems to
2 me that if the GOR decreases, that means you're producing
3 more liquids per MCF of gas, and in the long run you will
4 produce more liquids and surely get the gas.

5 A I agree with you to a point. I believe there is
6 a matter, though, in which you'll recall efficiently producing
7 the reservoir.

8 This reservoir is a very tight reservoir and it
9 takes stimulation to get your production.

10 To cut back completely, say, backpressuring, by
11 backpressuring the well, you're decreasing both your gas and
12 oil grade to an extreme level, I don't believe would be ef-
13 ficient producing methods. At the present time I don't see
14 anything detrimental to the reservoir itself based on the
15 present producing methods.

16 Q The Commission records should reflect when these
17 various wells went on-stream and what the production, gas/oil
18 ratios and volumes were during the months that you labeled
19 1 through 21 on these --

20 A Yes, the points there for the GOR curves were from
21 the daily -- utilized from the operators' monthly report, so
22 the data is in the files.

23 Q Do you know offhand when each of these wells went
24 on production?

25 A The Odessa Natural Jicarilla Chacon "D" 1 was

1 April of 1976.

2 The Odessa Natural Corporation Chacon Jicarilla
3 "D" 2, April, 1976.

4 The Dave Thomas Chacon Jicarilla "D" 3, November
5 of 1976.

6 The Dave M. Thomas, Jr. Chacon Jicarilla Apache
7 "D" 5 was February of 1977.

8 The Odessa Natural Chacon Jicarilla "D" No. 8 was
9 January of 1977.

10 Q And I am correct in my assumption that this ARCO-
11 Little Federal has not been placed on production yet, has it?

12 A No, sir, it hasn't. Hopefully, within the next
13 three weeks we will have it on a -- connected to a gathering
14 system and on production.

15 Q Now, under the pool rules for the Chacon-Dakota
16 Associated Pool, if this well was classified as an oil well
17 it would be limited in the amount of oil and gas it could
18 produce to 160-acre allowable.

19 A That's right.

20 Q Are you proposing that even though the well be
21 classified as gas it would be limited to 160-acre allowable
22 until such time as its GOR exceeded that of an oil well in
23 this pool?

24 A No, sir, I would rather see a classification as
25 a gas well under the pool rules right from the beginning.

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1 Q Do you have any evidence to indicate that this well
2 could be produced at those rates without waste?

3 A We will not have waste insofar as on the surface.
4 Everything will be gathered and sold, and as I stated before,
5 at these rates I don't believe it's detrimental to the reser-
6 voir.

7 Q I think that it goes without necessity of proof
8 that wells operating in conformance with the rules and regu-
9 lations for a particular pool are being efficiently and econ-
10 omically produced without waste, but when an exception is
11 sought to the pool rules, especially one which would essen-
12 tially double the allowable, it would seem to me that there
13 should be some evidence then that that particular well can
14 produce at those rates efficiently, economically, and without
15 causing waste or damage to that well and the pool.

16 A This -- one reason for my statement stating that
17 it should be classified as a gas well initially, if we go
18 through the standard GOR procedure and all for an oil well,
19 we may end up with a penalized condition as far as oil pro-
20 duction there. In actuality, I would expect this well to
21 be produced with a daily gas volume of around 1-million to
22 1-million around in that area. I would not recommend it as
23 high as 1-million 7 a day, which would be a gas well allow-
24 able; I would not ever do that.

25 Q If the applicant had his choice of a denial or

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1 operating on 160-acre oil well, even though classified as a
2 gas well, which would he choose?

3 A. 160-acre.

4 MR. STAMETS: Anything -- any other questions of
5 this witness? He may be excused.

6 Ms. Teschendorf, Mr. Thomas' telegram there, what
7 is the essence of that? Concurrence or disagreement?

8 MS. TESCHENDORF: Concurrence with Odessa Natural's
9 application. They say that Oil Conservation Commission appro-
10 val of the request would be appreciated.

11 MR. STAMETS: Okay. Anything further in this
12 case?

13 MR. WALSH: Atlantic is supposed to have sent in
14 a letter or a telegram supporting this application. It should
15 be in the file or received today at some time.

16 MR. STAMETS: All right, that does not appear to
17 be here but if and when it's received, we will add it to the
18 file.

19 MR. KILPATRIC: Thank you.

20 MR. STAMETS: Is there anything further in the
21 case? If there is nothing further, the case will be taken
22 under advisement.

23 (Hearing concluded.)
24
25

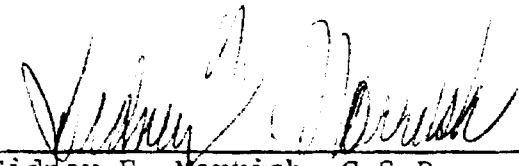
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REPORTER'S CERTIFICATE

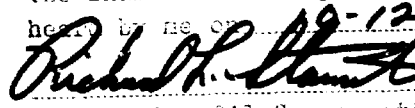
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I, SIDNEY F. MORRISH, a Certified Shorthand Reporter,
do hereby certify that the foregoing and attached Transcript
of Hearing before the New Mexico Oil Conservation Commission
was reported by me, and the same is a true and correct record
of the said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



Sidney F. Morrish, C.S.R.

sid morrish reporting service
General Court Reporting Service
825 Calle Mejia, No. 122, Santa Fe, New Mexico 87501
Phone (505) 982-9212

I do hereby certify that the foregoing is
a complete record of the proceedings in
the Examiner hearing of Case No. 6065,
heard by me on 10-12, 1977.

_____, Examiner
New Mexico Oil Conservation Commission



OIL CONSERVATION COMMISSION

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



DIRECTOR
JOE D. RAMEY

LAND COMMISSIONER
PHIL R. LUCERO

STATE GEOLOGIST
EMERY C. ARNOLD

December 27, 1977

Mr. Gary R. Kilpatric
Montgomery, Andrews & Hammahs
P. O. Box 2307
Santa Fe, New Mexico

Re: CASE NO. 6065
ORDER NO. R-5601


Applicant:

Odessa Natural Corporation

Dear Sir:

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

Yours very truly,


JOE D. RAMEY
Director

JDR/fd

Copy of order also sent to:

Hobbs OCC	<u>X</u>
Artesia OCC	<u>X</u>
Aztec OCC	<u>X</u>

Other _____

BEFORE THE OIL CONSERVATION COMMISSION
OF THE STATE OF NEW MEXICO

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

CASE NO. 6065
Order No. R-5601

APPLICATION OF ODESSA NATURAL CORPORATION
FOR A SPECIAL WELL CLASSIFICATION,
RIO ARRIBA COUNTY, NEW MEXICO.

ORDER OF THE COMMISSION

BY THE COMMISSION:

This cause came on for hearing at 9 a.m. on October 12, 1977, at Santa Fe, New Mexico, before Examiner Richard L. Stamets.

NOW, on this 27th day of December, 1977, the Commission, a quorum being present, having considered the testimony, the record, and the recommendations of the Examiner, and being fully advised in the premises,

FINDS:

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

(2) That the applicant, Odessa Natural Corporation, seeks the classification of its ARCO-Little Fed. Well No. 1, located in Unit D of Section 32, Township 24 North, Range 3 West, Rio Arriba County, New Mexico, as a gas well rather than an oil well, thereby permitting the continued dedication of the W/2 of said Section 32. Said classification would be in exception to the statewide definition of gas wells, or to the Chacon-Dakota Associated Pool definition of gas wells, whichever is applicable.

(3) That the evidence presented at the hearing demonstrated that said ARCO-Little Fed. Well No. 1 is completed as an extension of said Chacon-Dakota Associated Pool and is therefore subject to the special rules and regulations of said pool.

(4) That said special rules and regulations define a gas well as one producing with a gas-oil ratio of 30,000 cubic feet of gas or more per barrel of oil.

(5) That said ARCO-Little Fed. Well No. 1 is currently producing with a gas-oil ratio of less than 30,000 to 1 and is classified as an oil well.

(6) That the production history of wells in said Chacon-Dakota Associated Pool demonstrates that the gas-oil ratio of said ARCO-Little Fed. Well No. 1 may be expected to rapidly rise to a level in excess of 30,000 to 1, causing said well to be reclassified as a gas well.

(7) That within said pool, oil wells are spaced on 160-acre proration units and gas wells are spaced on 320-acre spacing units.

(8) That the applicant seeks a special gas well classification for said well in order to dedicate 320 acres thereto until such time as the gas-oil ratio of said well shall increase to a level of 30,000 to 1 or more.

(9) That such special classification and acreage dedication will prevent the drilling of a second oil well on the undrilled 160-acre tract (the SW/4 of said Section 32) which would be dedicated to said well if it should be classified as a gas well with 320 acres dedicated thereto.

(10) That said limitation on development could prevent the drilling of an unnecessary well thereby preventing economic waste.

(11) That the application for special classification of said ARCO-Little Fed. Well No. 1 as a gas well should be approved.

(12) That the applicant should appear at an Examiner hearing in July, 1978, to show cause why said special well classification should not be rescinded or to request an amendment to the special rules and regulations for the Chacon-Dakota Associated Pool to provide for a period of gas well classification for all new completions therein.

(13) That during the period of special gas well classification, said ARCO-Little Fed. Well No. 1 should receive an oil and gas allowable based upon a proration unit size of 160 acres.

IT IS THEREFORE ORDERED:

(1) That effective December 1, 1977, the Odessa Natural Corporation ARCO-Little Fed. Well No. 1, located in Unit D of Section 32, Township 24 North, Range 3 West, Chacon-Dakota Associated Pool, Rio Arriba County, New Mexico, is hereby granted a special gas well classification.

(2) That the W/2 of said Section 32 shall be dedicated to said ARCO-Little Fed. Well No. 1.

(3) That during the period of special gas well classification, the allowable assigned to said ARCO-Little Fed. Well No. 1 shall be based upon a proration unit size of 160 acres.

-3-

Case No. 6065
Order No. R-5601

(4) That this case shall be reopened at an Examiner hearing during July, 1978, at which time the applicant shall appear to show cause why the special gas well classification granted by this order should not be rescinded or to propose an amendment to the special rules and regulations for said Chacon-Dakota Associated Pool to provide for a period of special gas well classification for all new wells completed therein.

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

DONE at Santa Fe, New Mexico, on the day and year herein-
above designated.

STATE OF NEW MEXICO
OIL CONSERVATION COMMISSION

PHIL R. LUCERO, Chairman


EMERY C. ARNOLD, Member


JOE D. RAMEY, Member & Secretary


S E A L

jr/

EXHIBIT NO. 2
ODESSA NATURAL CORPORATION
CHACON JICARILLA "D", NO. 1
SW/4 SE/4, Sec. 15-T23N-R3W
Rio Arriba County, N.M.

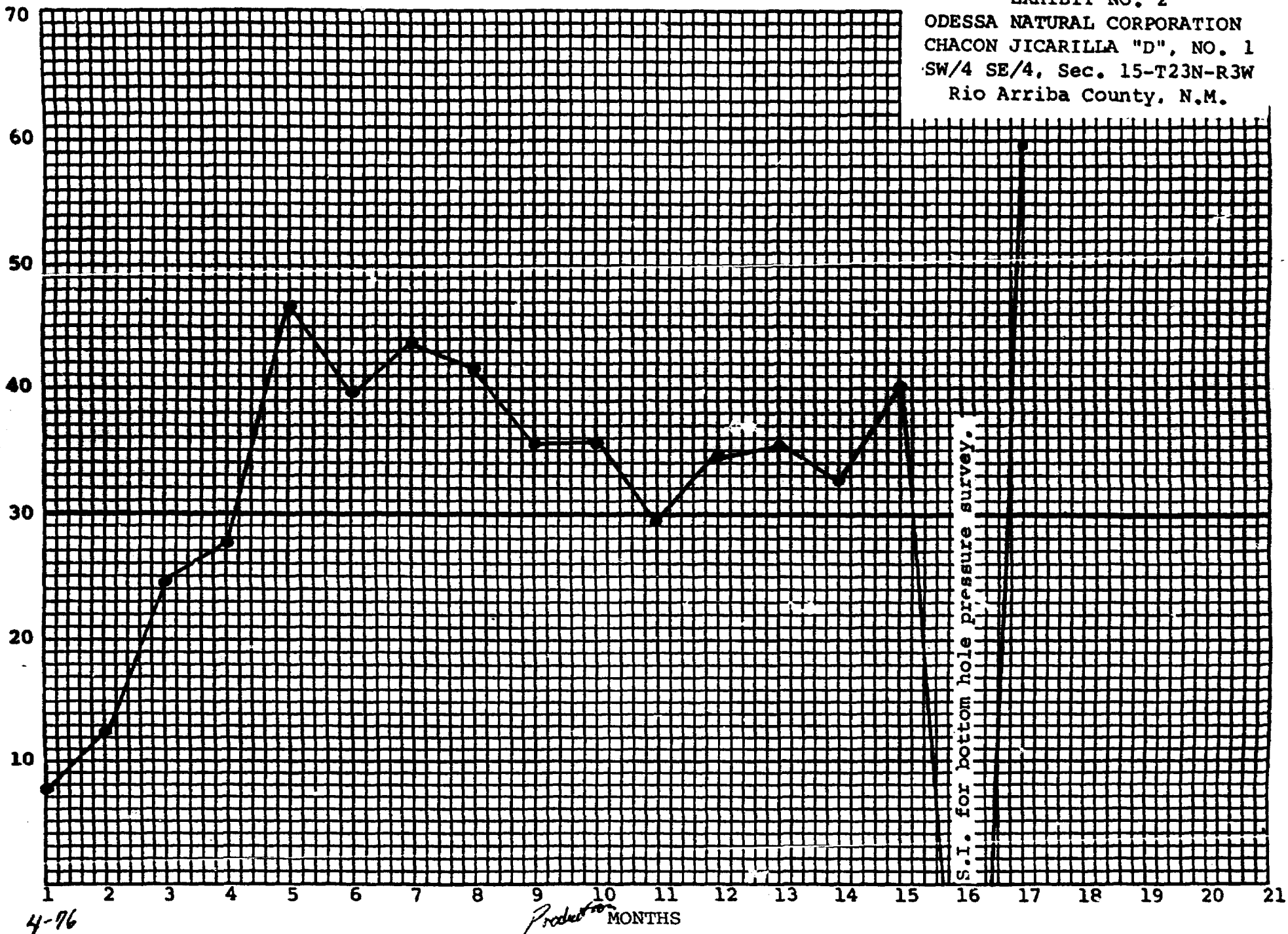


EXHIBIT NO. 3
ODESSA NATURAL CORPORATION
CHACON JICARILLA "D", NO. 2
NE/4 SE/4, Sec. 16-T23N-R3W
Rio Arriba County, N.M.

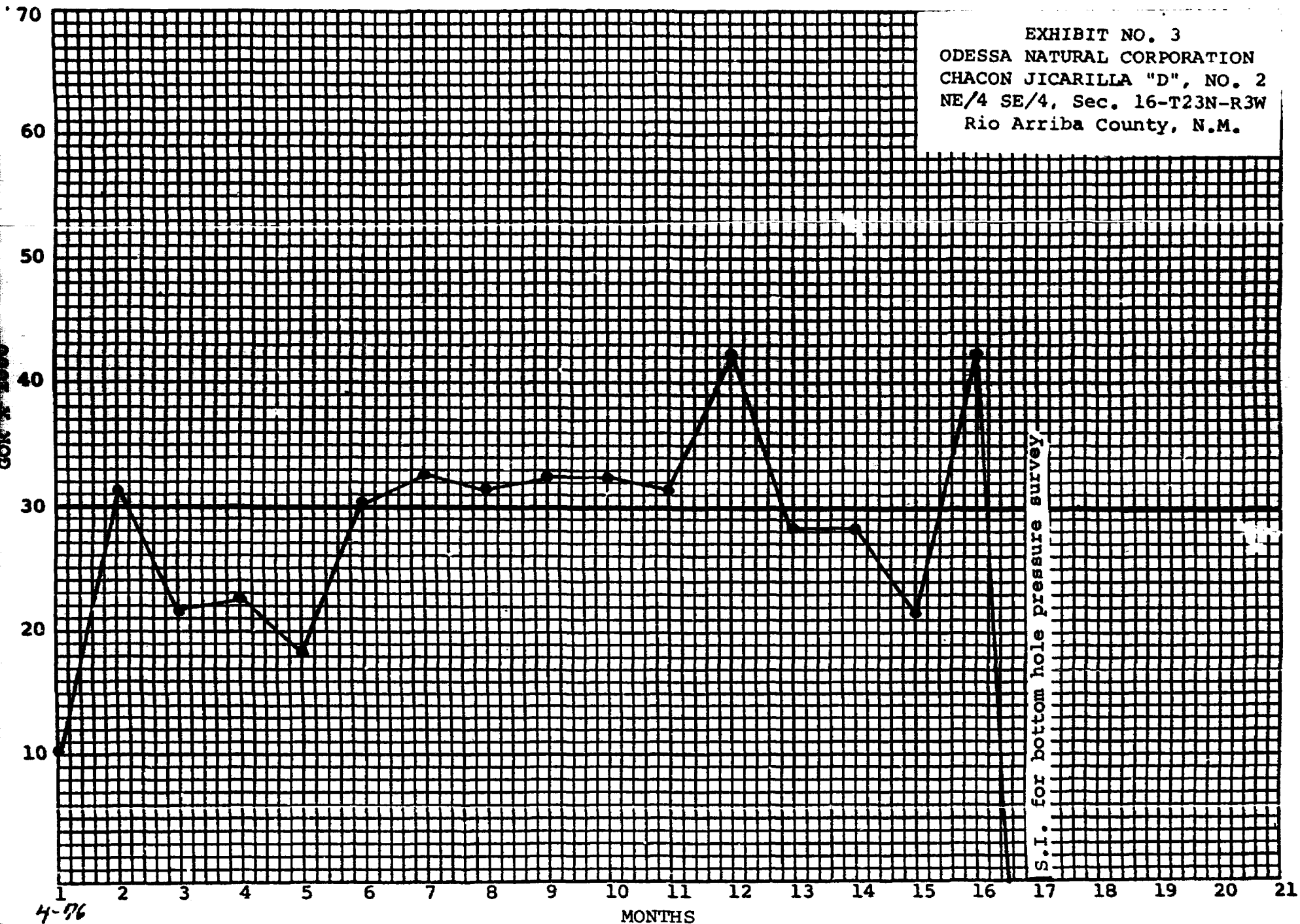
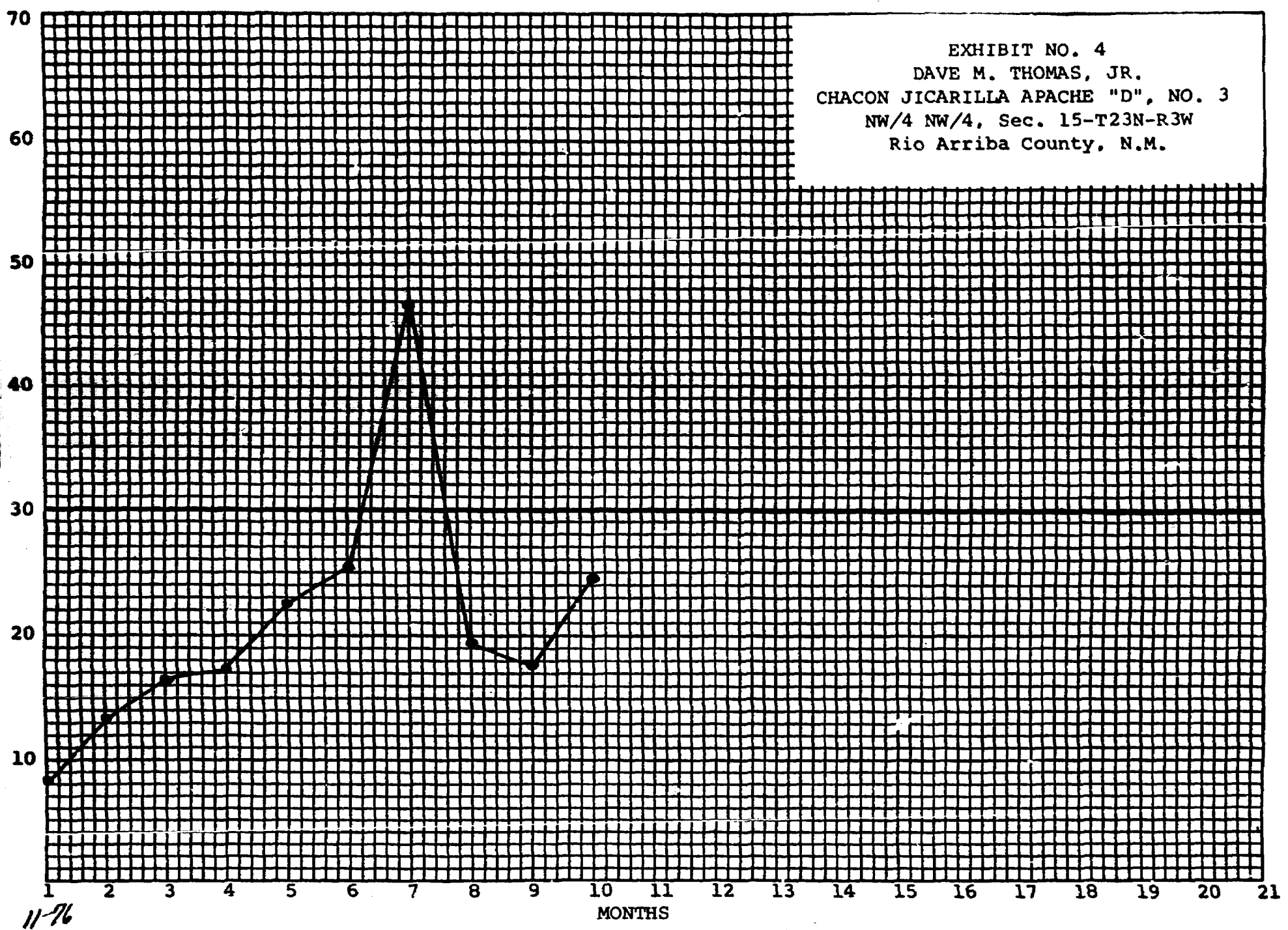
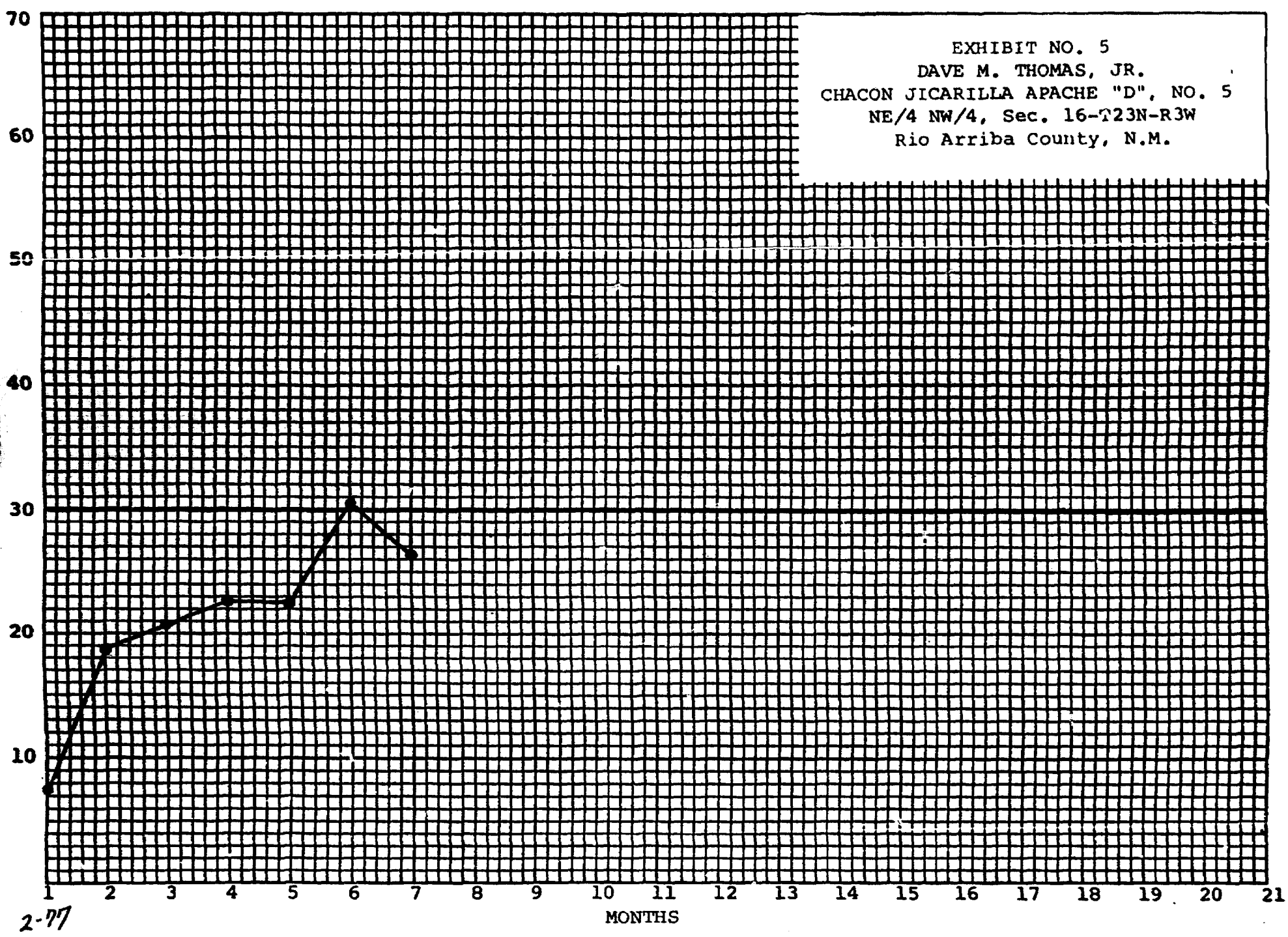


EXHIBIT NO. 4
DAVE M. THOMAS, JR.
CHACON JICARILLA APACHE "D", NO. 3
NW/4 NW/4, Sec. 15-T23N-R3W
Rio Arriba County, N.M.



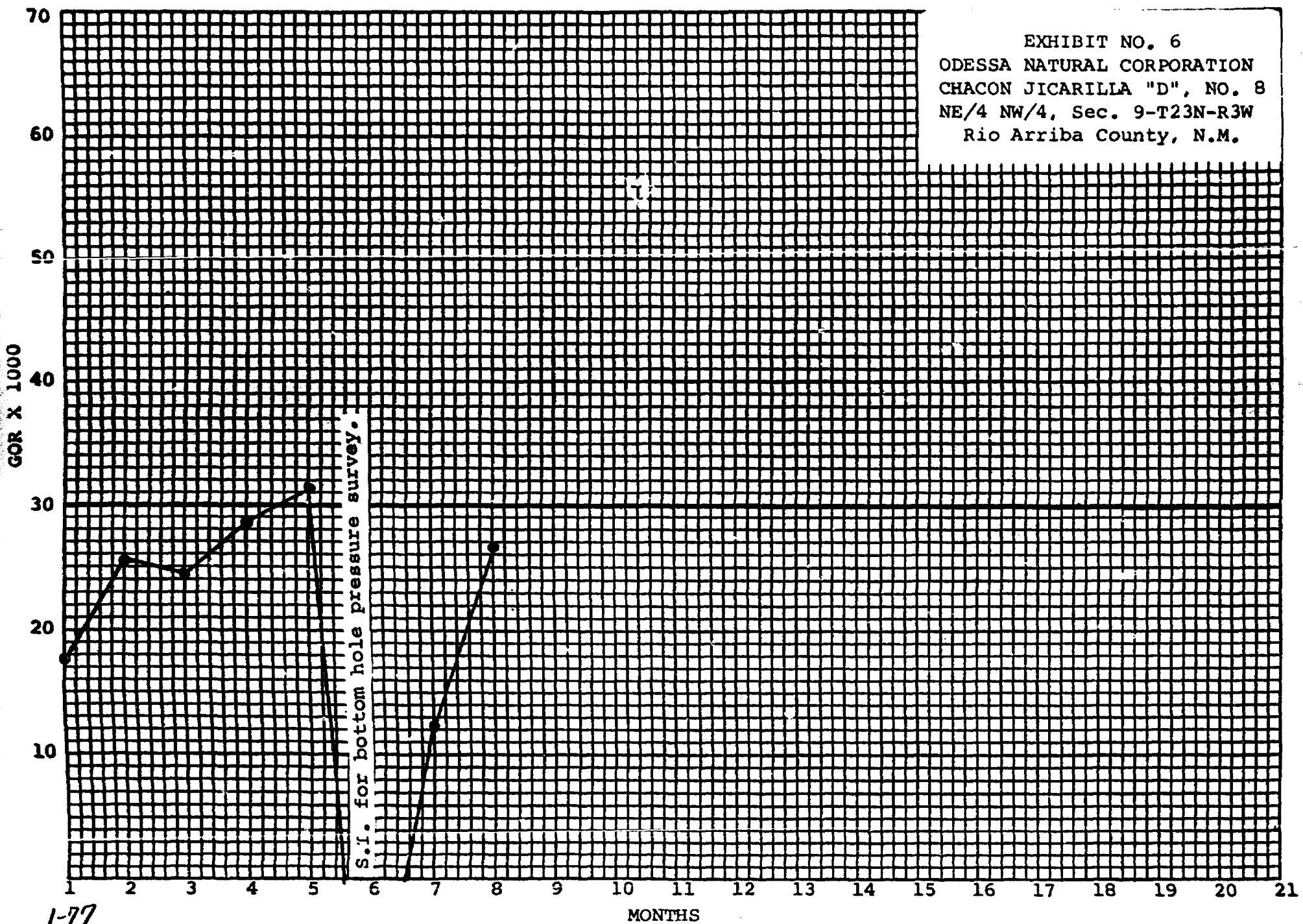
11-76

EXHIBIT NO. 5
DAVE M. THOMAS, JR.
CHACON JICARILLA APACHE "D", NO. 5
NE/4 NW/4, Sec. 16-T23N-R3W
Rio Arriba County, N.M.



2-77

EXHIBIT NO. 6
ODESSA NATURAL CORPORATION
CHACON JICARILLA "D", NO. 8
NE/4 NW/4, Sec. 9-T23N-R3W
Rio Arriba County, N.M.



1-77

MONTHS

NEW MEXICO OIL CONSERVATION COMMISSION
GAS-OIL RATIO TESTS

Exhibit 7

C-116

Revised 1-1-75

Operator Odessa Natural Corporation		Pool Chacon Dakota Association Oil Pool Extension						County Rio Arriba								
Address						TYPE OF TEST - (X)	Scheduled <input type="checkbox"/>	Initial Potential <input checked="" type="checkbox"/>			Special <input type="checkbox"/>					
LEASE NAME	WELL NO.	LOCATION				DATE OF TEST	STATE	CHOKE SIZE	TUB. PRESS.	DAILY ALLOWABLE	LENGTH OF TEST HOURS	PROD. DURING TEST				GAS - OIL RATIO CU.FT./BBL.
		U	S	T	R							WATER BBL.	GRAV. OIL	OIL BBL.	GAS M.C.F.	
Arca Little Federal	1	D	32	24N	3W	8-11-77	F	3/4"	950	-0-	24	-0-	46.6	272	1,140	4,190

60657

No well will be assigned an allowable greater than the amount of oil produced on the official test.

During gas-oil ratio test, each well shall be produced at a rate not exceeding the top unit allowable for the pool in which well is located by more than 25 percent. Operator is encouraged to take advantage of this 25 percent tolerance in order that well can be assigned increased allowables when authorized by the Commission.

Gas volumes must be reported in MCF measured at a pressure base of 15.025 psia and a temperature of 60° F. Specific gravity base will be 0.60.

Report casing pressure in lieu of tubing pressure for any well producing through casing.

Mail original and one copy of this report to the district office of the New Mexico Oil Conservation Commission in accordance with Rule 301 and appropriate pool rules.

I hereby certify that the above information is true and complete to the best of my knowledge and belief.

For: Odessa Natural Corp.

Ewell N. Walsh

Ewell N. Walsh, P.E.
President Walsh Eng. & Prod.
Corporation (Title)

August 15, 1977

(Date)

10-12-77

Gas All:

6052 Cont 5981 Cont 5983 Cont

6059 Cont 6061 Cont 6047 Cont

6062 - 6063 - 6064 Dismiss

6053 & 6025 Reopen for read only

6055

Kenneth Harold Deming, N.M. President of Han

Tschendorf & Kendrick

Intent 65876 (8-76)

~~But~~ Report 5-77 showed casing hung & not cemented. Wrote opr to correct situation, No response, Inst 9-20 & 10-11. No work done or well.

Will on Fed land

? Where complete pool fm

water on pay? gas escape?

surf esp 8 5/8 18 x 50 ft
graneros-Dakota 5 1/2 TD 1780

120 days - prod

Expidite

6057 Tom Jacobs Landman ??
Pinnail

Move away from irrigation canal to
keep fluids out of canal & stay off road
Location amended from adv.

also better geologically

call
60552

1940-1940 vs 1940-1980

6058 Hinkle - Chris Rhodes PE Arco
Midland

R5430 Amend NST Justice Fusselman
? spacing Montoya turned out very good
Fusselman poor
Need approval both Montoya & Fusselman

6060 Tom Kellihin Victor Vasicek PE

Agent for Rhodes
Prod water from Rhodes 38000 Stuart lease
? plastic coat yes etc - load & gauge ✓
pressure 400 # 5000
10000

5757 No appearance

6043 Tom Kellihin Victor Vasicek

Crawding South - John Cox - said OK
& released acreage
Good structural location
acreage

6065 Gary Kilpatrick
Ric Walsh P.E.

~~30,000~~

Exception to Chevron Rules 30,000

GOR limit for designation of oil/gas well

How long ^{1 yr asked?} tied into diff system? current GOR Ex 7
spud 6-17-77 with higher line pressures

? production limitation to 160 oil

line press inc = dec in GOR ✓

Ex 2-6 Oil vs gas

Will not on prod. ✓

why?
→

6066 Mike Campbell
Melvin Schroder Dist Pro Eng
? Order NO NSP 1044
old Langlie Mc Hix Oil Well
proposed to dual w/ Jalmu 6es

6068 - T & K show

DAVE M. THOMAS, JR.
SUITE 2-A -- EXECUTIVE BUILDING
413 W. MAIN -- PHONE 505-325-7701
FARMINGTON, NEW MEXICO 87401

OIL & GAS
ADDRESS REPLY TO
P. O. BOX 2026
FARMINGTON, N. M. 87401

October 10, 1977

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

Ref: Odessa Natural Corporation
Case 6065

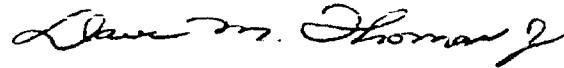
Dear Mr. Ramey:

As operator of wells in the Chacon Dakota Associated Oil Pool, I support the request of Odessa Natural Corporation in Case No. 6065.

The permitting of the continued dedication of the W/2 of Section 32, T24N, R3W and producing the well as a gas well, an exception to the Chacon Dakota Associated Oil Pool definition of a gas well, will enable Odessa Natural Corporation to determine that the Gas Oil Ratio will increase to above 30,000 to 1.

Your approval of the request would be appreciated.

Yours very truly,



Dave M. Thomas, Jr.

DMT:jr

CASE 6065: Application of Odessa Natural Corporation for a special well classification, Rio Arriba County, New Mexico. Applicant, in the above-styled cause, seeks the classification of its ARCO-Little Fed. Well No. 1, located in Unit D of Section 32, Township 24 North, Range 3 West, Rio Arriba County, New Mexico, as a gas well rather than an oil well, thereby permitting the continued dedication of the W/2 of said Section 32. Said classification would be in exception to the statewide definition of gas wells, or to the Chacon-Dakota Associated Pool definition of gas wells, whichever is applicable.

CASE 6066: Application of Texas Pacific Oil Company, Inc., for an unorthodox gas well location and simultaneous dedication, Lea County, New Mexico. Applicant, in the above-styled cause, seeks approval for the unorthodox location of its State "A" A/c-1 Well No. 53 located in the center of Unit E of Section 24, Township 23 South, Range 36 East, Jalmat Gas Pool, Lea County, New Mexico, to be simultaneously dedicated to a previously approved 480-acre multiple well non-standard proration unit comprising the NW/4 and S/2 of said Section 24.

CASE 6067: Application of Texas Pacific Oil Co., Inc., for pool contraction and extension, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks the contraction of the Catclaw Draw-Morrow Gas Pool, Eddy County, New Mexico, by the deletion of Section 3, Township 22 South, Range 25 East, therefrom, and the extension of the Revelation-Morrow Gas Pool to include said lands.

CASE 6068: In the matter of the hearing called by the Oil Conservation Commission upon its own motion for the creation and extension of certain pools in San Juan, Rio Arriba and Sandoval Counties, New Mexico:

(a) CREATE a new pool in San Juan County, New Mexico, classified as a gas pool for Fruitland production and designated as the Conner-Fruitland Pool. The discovery well is the Odessa Natural Corporation Little Federal Well No. 1 located in Unit K of Section 1, Township 30 North, Range 14 West, NMPM. Said pool would comprise:

TOWNSHIP 30 NORTH, RANGE 14 WEST, NMPM
Section 1: W/2
Section 12: W/2

(b) CREATE a new pool in San Juan County, New Mexico, classified as a gas pool for Pictured Cliffs production and designated as the South Gallegos-Pictured Cliffs Pool. The discovery well is the Jerome P. McHugh Nassau Well No. 5 located in Unit A of Section 36, Township 27 North, Range 12 West, NMPM. Said pool would comprise:

TOWNSHIP 27 NORTH, RANGE 12 WEST, NMPM
Section 36: All

(c) EXTEND the Ojo-Pictured Cliffs Pool in San Juan County, New Mexico, to include therein:

TOWNSHIP 26 NORTH, RANGE 15 WEST, NMPM
Section 25: S/2 & NW/4
Section 26: All
Section 35: N/2 & SE/4
Section 36: All

and to extend the vertical limits of said pool to include the Fruitland formation and redesignate said pool the Ojo Fruitland-Pictured Cliffs Pool.

(d) EXTEND the WAW-Pictured Cliffs Pool in San Juan County, New Mexico, to include therein:

TOWNSHIP 26 NORTH, RANGE 13 WEST, NMPM
Section 4: NW/4

TOWNSHIP 27 NORTH, RANGE 13 WEST, NMPM
Section 26: SW/4
Section 27: SE/4
Section 29: All
Section 30: E/2
Section 31: All
Section 32: N/2 & SW/4
Section 33: All
Section 34: N/2 & SW/4

and to extend the vertical limits of said pool to include the Fruitland formation and redesignate said pool the WAW Fruitland-Pictured Cliffs Pool.

(e) EXTEND the Ballard-Pictured Cliffs Pool in Rio Arriba and Sandoval Counties, New Mexico, to include therein:

Case 6065 970 FN
790 FW

SEP 19 1977



September 16, 1977

NEW MEXICO OIL CONSERVATION COMMISSION
P. O. Box 2088
Santa Fe, New Mexico 87501

Re: Request for Special Allowable

Gentlemen:

Odessa Natural Corporation has recently completed its ARCO-Little Federal No. 1 Well in the Dakota formation. The entire West Half of Section 32, Township 24 North, Range 3 West, Rio Arriba County, New Mexico has been dedicated to this well. The well is actually located in Unit D (NW/4 NW/4) of this section.

On an initial potential test taken on August 11, 1977 the well potentialled 272 barrels of oil and 1,140,000 cubic feet of gas per day. The GOR was calculated to be 4190. The well is not in any classified oil or gas pool.

Odessa Natural Corporation hereby respectfully requests an exception to Rule 104, Section C, Subsection 1 of the Commission rules and regulations and that the Commission grant to Odessa a special allowable for the above well based upon its 320 acre dedication. Odessa requests that the Commission grant this special allowable for a period of six (6) months after date of first delivery to the purchasing gas pipeline. This special allowable is necessary for Odessa and the Commission to be able to observe production therefrom in order to properly evaluate and classify this well.

Odessa requests that its application be considered at the earliest possible Examiner hearing, which we understand will be October 12, 1977. We will be present at such time to present testimony in support of this application.

This application is submitted in triplicate, with a copy being forwarded simultaneously herewith to ARCO

NEW MEXICO OIL CONSERVATION COMMISSION
September 16, 1977
Page 2 -

who has a carried working interest in this well. To our knowledge there are no adverse parties.

Very truly yours,

ODESSA NATURAL CORPORATION

Roland L. Hamblin

Roland L. Hamblin
Attorney - Legal Department

RLH:EH

cc: ATLANTIC RICHFIELD COMPANY
501 Lincoln Tower Building
Denver, Colorado 80203
Attention: Mr. Jim Posey

BEFORE THE OIL CONSERVATION COMMISSION
OF THE STATE OF NEW MEXICO

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

JAR
D
CASE NO. 6065
Order No. R- 5601

BR
APPLICATION OF ODESSA NATURAL
CORPORATION FOR A SPECIAL WELL
CLASSIFICATION, RIO ARRIBA COUNTY,
NEW MEXICO.

Don
ORDER OF THE COMMISSION

BY THE COMMISSION:

This cause came on for hearing at 9 a.m. on October 12, 1977,
at Santa Fe, New Mexico, before Examiner Richard L. Stamets.

NOW, on this _____ day of December, 1977, the Commission,
a quorum being present, having considered the testimony, the
record, and the recommendations of the Examiner, and being fully
advised in the premises,

FINDS:

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

(2) That the applicant, Odessa Natural Corporation, seeks
the classification of its ARCO-Little Fed. Well No. 1, located
in Unit D of Section 32, Township 24 North, Range 3 West, Rio
Arriba County, New Mexico, as a gas well rather than an oil well,
thereby permitting the continued dedication of the W/2 of said
Section 32. Said classification would be in exception to the
statewide definition of gas wells, or to the Chacon-Dakota
Associated Pool definition of gas wells, whichever is applicable.

(3) That the evidence presented at the hearing demonstrated
that said ARCO-Little Fed. Well No. 1 is completed as an extension
of said Chacon-Dakota Associated Pool and is therefore subject to
the special rules and regulations of said pool.

(4) That said special rules and regulations define a gas
well as one producing with a gas-oil ratio of 30,000 cubic feet
of gas or more per barrel of oil.

-2-
Case No. 6065
Order No. R-

(5) That said ARCO-Little Fed. Well No. 1 is currently producing with a gas-oil ratio of less than 30,000 to 1 and is classified as an oil well.

(6) That the production history of wells in said Chacon-Dakota Associated Pool demonstrates that the gas-oil ratio of said ARCO-Little Fed. Well No. 1 may be expected to rapidly rise to a ~~point~~ ^{level} in excess of 30,000 to 1, causing said well to be reclassified as a gas well.

(7) That within said pool, oil wells are spaced on 160-acre proration units and gas wells are spaced on 320-acre spacing units.

(8) That the applicant seeks a special gas well classification for said well in order to dedicate 320 acres thereto until such time as the gas-oil ratio of said well shall increase to a level of 30,000 to 1 or more.

(9) That such special classification and acreage dedication will prevent the drilling of a second oil well on the undrilled 160-acre tract ^(the SW/4 of said Section 32) which would be dedicated to said well if it should be classified as a gas well with 320 acres dedicated thereto.

(10) That said limitation on development could prevent the drilling of an unnecessary well thereby preventing economic waste.

(11) That the application for special classification of said ARCO-Little Fed. Well No. 1 as a gas well should be approved.

(12) That the applicant should appear at an Examiner hearing in July, 1978, to show cause why said special well classification should not be rescinded or ~~if~~ ^{to present request an amendment to the} the special rules and regulations for the Chacon-Dakota Associated Pool ~~should be amended~~ to provide for a period of gas well classification for all new completions therein.

-3-
Case No. 6065
Order No. R-

(13) That during the period of special gas well classification, said ARCO-Little Fed. Well No. 1 ^{shall} receive an oil and gas allowable based upon ~~an acreage factor~~ ^{a proration unit size} of 160 acres.

IT IS THEREFORE ORDERED:

(1) That effective ~~January 1, 1978,~~ ^{December 1, 1977,} the Odessa Natural Corporation ARCO-Little Fed. Well No. 1, located in Unit D of Section 32, Township 24 North, Range 3 West, Chacon-Dakota Associated Pool, Rio Arriba County, New Mexico, is hereby granted a special gas well classification.

~~(2) That said ARCO-Little Fed. Well No. 1 shall have a 320-acre dedicated thereto.~~

(3) That during the period of special gas well classification, the allowable assigned to said ARCO-Little Fed. Well No. 1 shall be based upon a proration unit size of 160 acres.

(4) That this case shall be reopened at an Examiner hearing during July, 1978, at which time the applicant shall appear to show cause why the special gas well classification granted by this order should not be rescinded or to propose an amendment to the special rules and regulations for said Chacon-Dakota Associated Pool to provide for a period of special gas well classification for all new wells completed therein.

(2) That the W/2 of said Section 32 shall be dedicated to

(5) per

1977 OCT 12 AM 9:05

IPMFEKA SANA
2-016003E285 10/12/77
ICS IPMBN02 CSP
3035734043 TDBN DENVER CO 57 10-12 0948A EST
PMS STATE OF NEW MEXICO

OIL CONSERVATION COMMISSION

MS LYNN TESCHENDORF, RDM REPORT DELIVERY BY MAILGRAM, DLR
LAND OFFICE BLDG RM 206
SANTA FE NM

ATLANTIC RICHFIELD COMPANY AS A WORKING INTEREST OWNER IN THE LANDS
INVOLVED IN THE APPLICATION OF ODESSA NATURAL FOR A SPECIAL WELL
CLASSIFICATION CASE #6065 SUPPORT THE CLASSIFICATION OF THE 1-32
LITTLE-ARCO FEDERAL WELL LOCATED IN THE NORTHWEST QUARTER SECTION 32
T24N R3W N1/4 AS A GAS WELL.

A H BRACKENRIDGE DISTRICT MANAGER ROCKY MOUNTAIN DISTRICT
NORTH AMERICAN PRODUCING DIVISION ATLANTIC RICHFIELD COMPANY
(THE LAND DEPT 501 LINCOLN TOWER BLDG DENVER CO 80295)

0949 EST

IPMFEKA SANA