

Case NO.

6599

Application

Transcripts

Small Exhibits

ETC.

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION
State Land Office Building
Santa Fe, New Mexico
25 July 1979

EXAMINER HEARING

IN THE MATTER OF:

Application of Gulf Oil Corporation for)
downhole commingling, Lea County, New) CASE
Mexico.) 6599

BEFORE: Daniel S. Nutter

TRANSCRIPT OF HEARING

A P P E A R A N C E S

For the Oil Conservation
Division:

Ernest L. Padilla, Esq.
Legal Counsel for the Division
State Land Office Bldg.
Santa Fe, New Mexico 87503

For the Applicant:

Terry I. Cross, Esq.
The Gulf Companies
P. O. Box 1150
Midland, Texas 79702

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I N D E X

BETHEL S. STRAWSER

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E X H I B I T S

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1 MR. NUTTER: Call next Case Number 6599.
2
3 MR. PADILLA: Application of Gulf Oil Cor-
4 poration for downhole commingling, Lea County, New Mexico.
5
6 MR. CROSS: Terry Cross for Gulf Oil Cor-
7 poration, and Mr. Sperling has also entered an appearance
8 in this case.
9
10 MR. NUTTER: We have that appearance.
11
12 MR. CROSS: Do you consider this witness
13 still under oath?
14
15 MR. NUTTER: The witness is still under
16 oath.
17
18 BETHEL S. STRAWSER
19 being called as a witness and having been previously sworn
20 upon her oath, testified as follows, to-wit:
21
22 DIRECT EXAMINATION
23
24 BY MR. CROSS:
25
Q Would you please state your name, your
employer, and your position, for the record, please?
A Once again, my name is Bethel Strawser,
with Gulf Oil Corporation as a petroleum engineer in Mid-
land, Texas.
MR. CROSS: In view of the fact that this
witness just qualified in the preceding case, is she qual-

1 ified now?

MR. NUTTER: The witness is qualified.

3 Q Would you please state what Gulf is seeking
4 in this application?

5 A. Gulf is seeking authority to downhole com-
6 mingle production from the North Justis-Montoya Pool and
7 the North Justis-Fusselman Pool in the wellbore of our
8 W. A. Ramsey NCT-C Well No. 4, which is located in Unit
9 M, Section 36, Township 24 South, Range 37 East, in Lea
10 County, New Mexico.

11 Q Would you please explain your Exhibit
12 Number One?

13 A Exhibit Number One is a plat of the area.
14 It shows the W. A. Ramsey Lease outlined by a dashed line.
15 The Well No. 4 has been colored red.

16 Q Do you have an exhibit showing the down-
17 hole particulars of this well?

18 A. Yes. Exhibit Number Two is a diagrammatic
19 sketch showing the details of the completion and the down-
20 hole equipment both presently in use and proposed for use
21 after authority to commingle has been granted.

22 Q. Would you please give the history of this
23 well?

A. Well history as per Exhibit --

MR. NUTTER: And you're reading from Ex-

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1 hibit Three, right?

2 A As per Exhibit Three, yes.

3 MR. NUTTER: I think you don't have to read
4 the whole thing, just summarize it, since you do have it
5 on record here as an exhibit.

6 A Okay. The well was spudded in 1962.
7 Total depth is 8155 feet with 7-inch production casing at
8 that depth.

9 It was originally triply completed with
10 North Justis-Fusselman, North Justis-Montoya, and North
11 Justis-Waddell under the Order Number R-2430.

12 Waddell has since been temporarily aban-
13 doned and we are now dually completed between the Montoya
14 and the Fusselman.

15 Montoya zone is perforated 7104 to 14
16 and was treated with acid, squeezed and re-perforated and
17 treated again with acid. It initially flowed 188 barrels
18 of oil per day.

19 Fusselman was perforated 6988 to 6996 and
20 treated with acid. Its initial production was 166 barrels
21 of oil per day.

22 The most recent C-116s are Exhibits
23 Number Four-A and Four-B.

24 Q Do you have exhibits setting out the pro-
25 duction performance of this well?

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1 A Yes, the Exhibits Five-A and Five-B plot
2 the average daily production on an annual basis and the
3 last one-and-a-half years on a monthly basis.

4 These curves show the production between
5 the two zones is fairly equivalent at the present time. The
6 latest averages that I have show the Fusselman zone pumping
7 12 barrels of oil and 90 barrels of water per day, with 3
8 Mcf of gas, while the Montoya zone pumps 10 barrels of oil,
9 20 barrels of water, and 3 Mcf gas.

10 Exhibits Six-A and Six-B tabulate the same
11 data in numerical form.

12 Q Have precedents been set in the immediate
13 area to downhole commingle the North Justis-Fusselman and
14 North Justis-Montoya Pools?

15 A Yes. Under Order Number R-4895, dated
16 October 29th, 1974, Texaco was granted authority to down-
17 hole commingle production from the two subject pools, to-
18 gether with the North Justis-Ellenburger Pool in their
19 G. L. Erwin "B" Federal NCT-2 Well No. 5. This is located
20 in Unit P of Section 35, Township 24 South, Range 37 East.

21 This well offsets the Gulf W. A. Ramsey
22 NCT-C Well No. 4 to the west, and I have marked it in yellow
23 on your Exhibit Number One plat.

24 Q What problems have been encountered as a
25 result of dual completion in this well?

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1 A We have experienced corrosion problems in
2 this well. Historically, tubing leaks and packer failures
3 have been a problem. Protection against this corrosion,
4 however, is very difficult to accomplish with the dual
5 equipment in the wellbore. A single string of tubing
6 would facilitate the circulation which is required to ef-
7 fectively apply corrosion treatment chemicals. We believe
8 that it is no longer feasible to effectively produce the
9 well as a dual.

10 Q Do you anticipate any crossflow problems
11 as a result of commingling?

12 A No crossflow problems are anticipated.
13 We do expect to keep the well pumped off.

14 Q Are you currently surface commingling
15 Montoya and Fusselman production on the subject lease?

16 A Yes. Production from the North Justis-
17 Fusselman and the North Justis-Montoya is being commingled
18 in surface storage facilities under administrative order
19 PC-72.

20 We have seen no evidence of fluid incom-
21 patibility to date and we do not anticipate any future
22 problems.

23 Q Will the value of the production from this
24 well be adversely affected as a result of downhole com-
25 mingling?

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1 A No. The oil and gas pricing classifications
2 will not be changed as a result of proposed downhole com-
3 mingling and the production is already surface commingled.
4 We do not anticipate any change in value of production.

5 Q How does Gulf propose to allocate production
6 between the Montoya and Fusselman Pools?

7 A Based on recent C-116s, we propose to al-
8 locate 50 percent of the oil and 50 percent of the gas to
9 each zone, with 90 percent of the water allocated to the
10 Montoya and 10 percent of the water to the Fusselman.

11 We suggest that details on this matter be
12 worked out with the District Director of the New Mexico
13 Oil Conservation Division, together with Gulf personnel
14 after authority to downhole commingle has been granted.

15 Q What does Gulf propose in the event
16 secondary recovery operations are undertaken in this area
17 in these pools?

18 A We will recommend separation of the zones
19 as deemed necessary for efficient secondary recovery oper-
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24 A We do expect to slightly increase the ef-
25 ficiency of artificial lift operations as a result of down-

1 hole commingling. This may slightly increase the total
2 production from both zones; however, we anticipate that
3 combined production in the near future will not exceed 25
4 barrels of oil, 10 Mcf gas, and 120 barrels of water per
5 day.

6 Q Would you again please summarize what
7 Gulf is seeking in this application?

8 A In order to prevent waste and obtain maxi-
9 mum oil recovery in the most efficient and feasible manner,
10 we request authority to downhole commingle the North Justis-
11 Fusselman and the North Justis-Montoya production in our
12 W. A. Ramsey NCT-C Well No. 4, located in Unit M, Section
13 36, Township 24 South, Range 37 East, Lea County, New
14 Mexico.

15 Q Were Exhibits One through Six-B prepared
16 under your supervision?

17 A Yes, they were.

18 MR. CROSS: I move they be admitted into
19 evidence.

20 MR. NUTTER: Gulf Exhibits One through Six
21 will be admitted in evidence.

22 MR. CROSS: I have no further questions.
23
24
25

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Santa Fe, New Mexico 87506

CROSS EXAMINATION

1
2 BY MR. NUTTER:

3 Q Ms. Strawser, inspection of Exhibit Number
4 Five-A would indicate there was a temporary increase in
5 gas production from both zones in 1972 and '73; then it
6 went back to a comparatively low level, and also that there
7 was a temporary increase in the amount of water that was
8 produced from the Montoya just for a period of a few years,
9 and it declined, then, in 1978, and has since risen.

10 Do you have any explanation for these
11 anomalies on these decline curves?

12 A No, sir, I would have to suppose that it
13 stems from who was recording the figures at the time, and
14 unfortunately there's no way of checking that now.

15 Q You mean some of the recording may have
16 been at variance with the reporting at other times, huh?

17 A That is correct. I've been party to
18 enough field operations to know just how accurate these
19 numbers really are.

20 Q With Gulf?

21 A With any oil company.

22 Q Okay. Now, your production from the
23 Montoya, your oil production, starts off at a level that
24 is somewhat comparable with the original completion data
25 as given on Exhibit Two, but the Fusselman shows from the

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Santa Fe, New Mexico 87501

1 beginning here only about, maybe, 15 to 20 barrels of oil
2 per day.

3 A Okay. What you are looking on the Exhibit
4 Number Five-A is a daily average. If the Fusselman oil
5 dropped off rapidly over the first six months that it pro-
6 duced, that will be shown as a daily average rather than
7 a daily average over six-months time.

8 Q These are annual averages, though, for
9 the points on the graph, aren't they?

10 A Annual averages except where I had a short
11 short year.

12 Q And although it came in with a potential
13 of 166 barrels per day in the Fusselman, the first pro-
14 duction figures for the average was only 15 barrels per
15 day.

16 A Yes, sir.

17 Q And as far as you know, the pressures in
18 both zones are equivalent and approximately 1000 pounds at
19 bottom hole.

20 A To my knowledge.

21 Q Now, you gave us a proposal for allocation
22 of oil and water. What about gas?

23 A I believe I proposed 50 percent on the
24 gas, as well, 50 percent to each.

25 Q Okay, which is the same as oil.

1 A Yes. You'll notice on the Exhibit Number
2 Five-A that the points nearly overlap.

3 Q Uh-huh, and have for some period of time.

4 A Yes.

5 Q Okay.

6 MR. NUTTER: Are there any further ques-
7 tions of the witness? She may be excused.

8 Do you have anything further, Mr. Cross?

9 MR. CROSS: No, sir.

10 MR. NUTTER: Does anyone have anything
11 they wish to offer in Case Number 6599?

12 We'll take the case under advisement.

13
14 (Hearing concluded.)
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REPORTER'S CERTIFICATE

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

Sally W. Boyd C.S.R.
Sally W. Boyd, C.S.R.

I do hereby certify that the foregoing is a complete record of the proceedings in the hearing of Case No. 6599 heard by me on 7/25 1979.
[Signature] Examiner
Oil Conservation Division

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STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION
State Land Office Building
Santa Fe, New Mexico
25 July 1979

EXAMINER HEARING

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Mexico.)

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Midland, Texas 79702

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I N D E X

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E X H I B I T S

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MR. CROSS: Terry Cross for Gulf Oil Corporation, and Mr. Sperling has also entered an appearance in this case.

MR. NUTTER: We have that appearance.

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MR. NUTTER: The witness is still under oath.

BETHEL S. STRAWSER

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

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A Once again, my name is Bethel S. awser, with Gulf Oil Corporation as a petroleum engineer in Midland, Texas.

MR. CROSS: In view of the fact that this witness just qualified in the preceding case, is she qual-

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4 in this application?

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15 The Well No. 4 has been colored red.

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19 sketch showing the details of the completion and the down-
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3020 Plaza Blanca (SOS) 471-3463
Santa Fe, New Mexico 87501

1 A Yes, the Exhibits Five-A and Five-B plot
2 the average daily production on an annual basis and the
3 last one-and-a-half years on a monthly basis.

4 These curves show the production between
5 the two zones is fairly equivalent at the present time. The
6 latest averages that I have show the Fusselman zone pumping
7 12 barrels of oil and 90 barrels of water per day, with 3
8 Mcf of gas, while the Montoya zone pumps 10 barrels of oil,
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20 in Unit P of Section 35, Township 24 South, Range 37 East.

21 This well offsets the Gulf W. A. Ramsey
22 NCT-C Well No. 4 to the west, and I have marked it in yellow
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24 Q What problems have been encountered as a
25 result of dual completion in this well?

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1 A We have experienced corrosion problems in
2 this well. Historically, tubing leaks and packer failures
3 have been a problem. Protection against this corrosion,
4 however, is very difficult to accomplish with the dual
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1 A No. The oil and gas pricing classifications
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3 mingling and the production is already surface commingled.
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15 Q Were Exhibits One through Six-B prepared
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19 evidence.

20 MR. NUTTER: Gulf Exhibits One through Six
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CERTIFIED SHORTHAND REPORTER
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Santa Fe, New Mexico 87501

CROSS EXAMINATION

BY MR. NUTTER:

Q Ms. Strawser, inspection of Exhibit Number Five-A would indicate there was a temporary increase in gas production from both zones in 1972 and '73; then it went back to a comparatively low level, and also that there was a temporary increase in the amount of water that was produced from the Montoya just for a period of a few years, and it declined, then, in 1978, and has since risen.

Do you have any explanation for these anomalies on these decline curves?

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2 Five-A that the points nearly overlap.

3 Q Uh-huh, and have for some period of time.

4 A Yes.

5 Q Okay.

6 MR. NUTTER: Are there any further ques-
7 tions of the witness? She may be excused.

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REPORTER'S CERTIFICATE

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

Sally W. Boyd, C.S.R.

I do hereby certify that the foregoing is a correct transcript of the proceedings in the hearing of Case No. 6599 heard by me on 7/25 1979.
[Signature], Examiner
Oil Conservation Division



August 17, 1979

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Re: CASE NO. 6599
ORDER NO. R-6077

Gulf Oil Corporation

Yours very truly,

JOE D. RAMEY
Director

Hobbs OCD	<u>x</u>
Artesia OCD	<u>x</u>
Aztec OCD	<u> </u>

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. 6599
Order No. R-6077

APPLICATION OF GULF OIL CORPORATION
FOR DOWNHOLE COMMINGLING, LEA
COUNTY, NEW MEXICO.

ORDER OF THE DIVISION

BY THE DIVISION:

This cause came on for hearing at 9 a.m. on July 25, 1979, at Santa Fe, New Mexico, before Examiner Daniel S. Nutter.

NOW, on this 16th day of August, 1979, 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, Gulf Oil Corporation, is the owner and operator of the W. A. Ramsay Well No. 4, located in Unit M of Section 36, Township 24 South, Range 37 East, NMPM, Lea County, New Mexico.

(3) That the applicant seeks authority to commingle Fusselman and Montoya production within the wellbore of the above-described well.

(4) That from the Fusselman zone, the subject well is capable of low marginal production only.

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

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

-2-

Case No. 6599
Order No. R-6077

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

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

(9) That in order to allocate the commingled production to each of the commingled zones in the subject well, 50 percent of the commingled oil production and 50 percent of the commingled gas production should be allocated to the Fusselman zone, and 50 percent of the commingled production to the Montoya zone.

IT IS THEREFORE ORDERED:

(1) That the applicant, Gulf Oil Corporation, is hereby authorized to commingle Fusselman and Montoya production within the wellbore of W. A. Ramsay Well No. 4, located in Unit M of Section 36, Township 24 South, Range 37 East, NMPM, Lea County, New Mexico.

(2) That 50 percent of the commingled oil production and 50 percent of the commingled gas production shall be allocated to the Fusselman zone and 50 percent of the commingled production shall be allocated to the Montoya zone.

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

(4) 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 stated.



STATE OF NEW MEXICO
OIL CONSERVATION DIVISION

Joe D. Ramey
JOE D. RAMEY
Director

S E
fd/

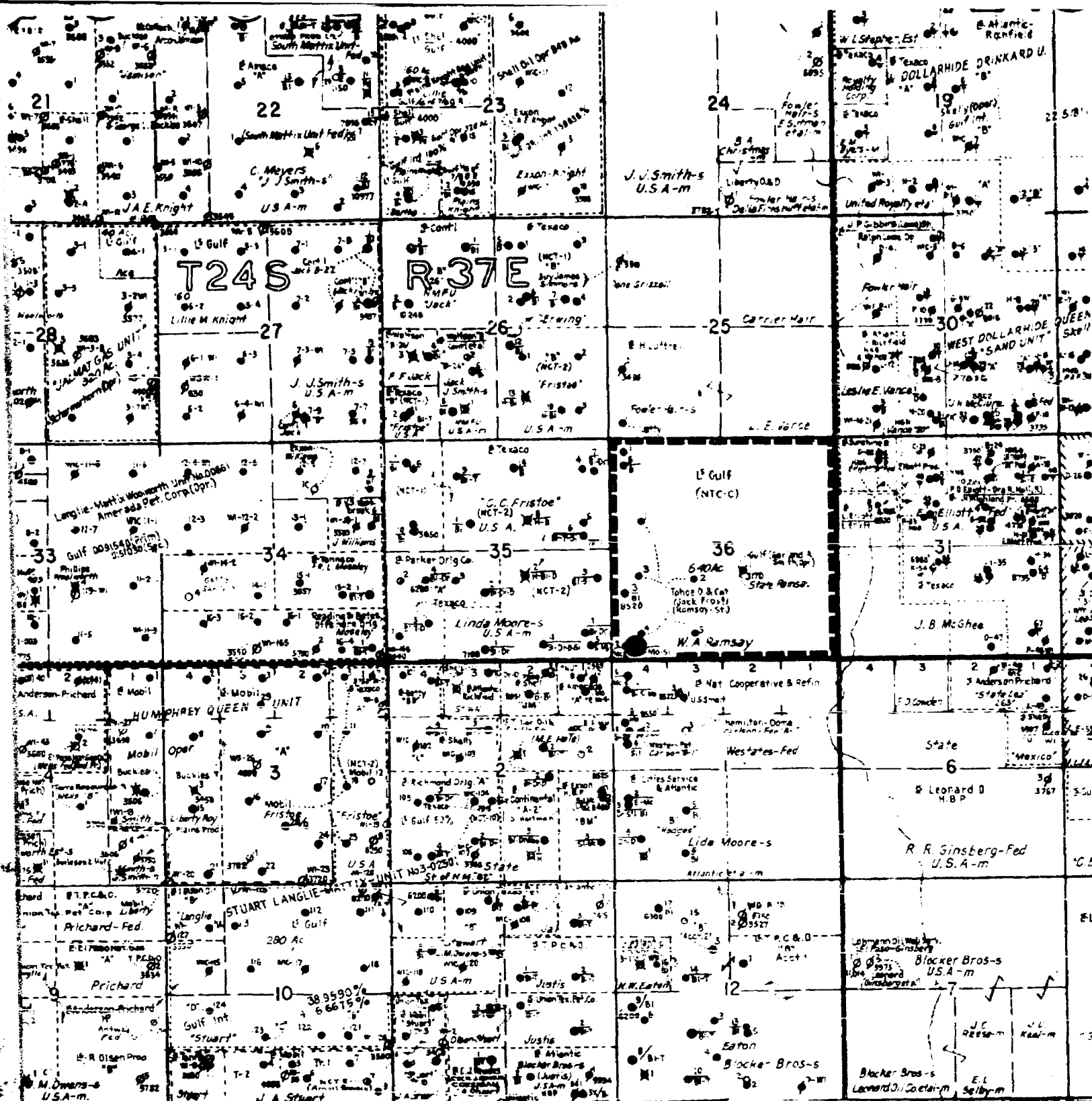


EXHIBIT NO. 1

CASE NO. 6599

DATE: 7-25-79

W. A. RAMSAY (NCT-C) WELL NO. 4
LEA COUNTY, NEW MEXICO
GULF OIL CORPORATION

BEFORE EXAMINER NUTTER

OIL CONSERVATION DIVISION

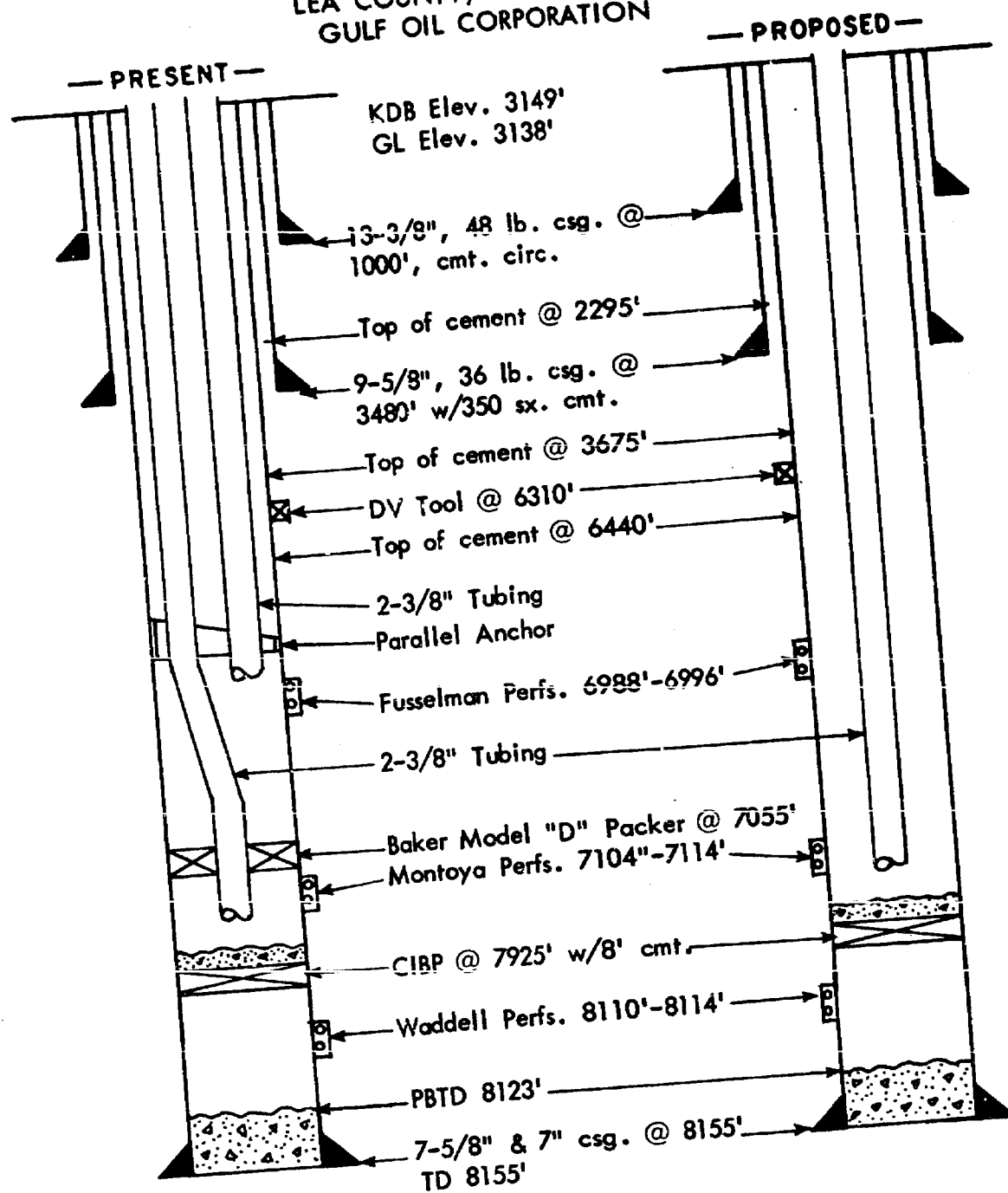
Gulf EXHIBIT NO. 1

CASE NO. 6599

● Well proposed for downhole commingling

Diagrammatic Sketch Showing

PRESENT & PROPOSED INSTALLATION
W. A. RAMSAY (NCT-C), WELL NO. 4
UNIT M, SEC. 36, T-24-S, R-37-E
LEA COUNTY, NEW MEXICO
GULF OIL CORPORATION



BEFORE EXAMINER NUTTER
OIL CONSERVATION DIVISION
Gulf EXHIBIT NO. 2
CASE NO. 6599

EXHIBIT NO. 2
CASE NO. 6599
DATE 7-25-79

EXHIBIT NO. 3
CASE NO. 6599
DATE: 7-25-79
GULF OIL CORPORATION
WELL DATA

- (1) Operator: Gulf Oil Corporation
Post Office Box 670
Hobbs, New Mexico 88240
- (2) Well Name & Location: W. A. Ramsay (NCT-C) No. 4
330' FSL and 430' FWL of Section 36, T-24-S, R-37-E,
Lea County, New Mexico
- (3) Pools: Justis Fusselman (6988'-6996')
Justis Montoya (7110'-7114')
Triple completed with the North Justis Waddell (8110'-8114') under
Order No. R-2430. Waddell was plugged and abandoned 11-71.
- (4) Current Production: See attached C-116.
- (5) Production Decline and Well History: See attached curves for decline.

Well was spudded on October 29, 1962 and drilled to a total depth of 8155'. Seven inch production casing was set at 8155'. The well was triple completed in the North Justis Fusselman, North Justis Montoya, and North Justis Waddell zones under Order No. R-2430. The Waddell was perforated in the interval 8110'-8114' and treated with 500 gallons of 15% NE acid and 2000 gallons of 15% HCL. Initially, the well flowed 198 BOPD on a 12/64" choke.

In 1963, the zone was reacidized with 1000 gallons 15% HCL and additional zones were perforated and treated with 2000 gallons Super F acid. Additional zones that were perforated and treated included 8109-8113', and 8090-8094'. The Waddell zone was TA'd on 8-18-64 and plugged on 11-17-71.

The Montoya zone was perforated in the interval 7104-14' and treated with 500 gallons 15% NE acid. The zone was squeezed and reperforated in the interval 7110-14' and treated with 1250 gallons 15% HCL. The Montoya zone initially flowed 188 BOPD after completion. The Fusselman was perforated in the interval 6988'-6996' and treated with 1000 gallons 15% HCL. Initial production from the Fusselman zone was 166 BOPD.

- (6) Estimated Bottom Hole Pressure: The bottom hole pressure for both zones is estimated to be 1000 psi based on offset information.
- (7) Fluid Characteristics: Production from the North Justis Fusselman and North Justis Montoya pools is being commingled in surface storage facilities under Administrative Order PC-72. No evidence of fluid incompatibility has been experienced to date and no future problems are anticipated.

BETCOE LAMMER NUTTER	
CALIFORNIA OIL FIELD DIVISION	
Gulf	WELL NO. <u>3</u>
CASE NO.	<u>6599</u>

EXHIBIT NO. 3
CASE NO. 6599
DATE: 7-25-79
GULF OIL CORPORATION
WELL DATA
PAGE TWO

- (8) Value of Commingled Production: No change in value of the crude is anticipated since the zones are already commingled at the surface under Administrative Order PC-72.
- (9) List of offset operators attached.

C-116
Revised 1-1-63

BEFORE EXAMINER NUTTER
OL CONSERVATION DIVISION
Gulf EXHIBIT NO. 4-A
CASE NO. 6599

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 volume 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.

Keep original and one copy of this report to the district office of the New Mexico Oil Conservation Commission in accordance with Rule 111 of appropriate procedure.

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

5757 Hallmark
(Signature)

Well Tester

NEW MEXICO OIL CONSERVATION COMMISSION
GAS-OIL RATIO TESTS

C-110
Revised 1-1-65

Gulf Oil Corporation	Pool Justis Fusselman North	County Lea
Box 670, Hobbs, NM 88240	TYPE OF TEST - (X)	Scheduled <input type="checkbox"/> Completion <input type="checkbox"/> Special <input type="checkbox"/>

LEASE NAME	WELL NO.	LOCATION				DATE OF TEST	SIZE	TSG. PRESS.	DAILY ALLOWABLE	LENGTH OF TEST HOURS	PROD. DURING TEST				GAS - OIL RATIO CU.FT/BSL
		U	S	T	R						WATER SOLS.	GRAY. OIL	OIL SOLS.	GAS M.C.F.	
A. Ramsay (NCT-C)	4	N	36	24	37	4-8-73	2" NO	30	14	24	20	99.0	10	TSTM	-

BEFORE IT IS SIGNED BY THE WELL TESTER
 OIL CONSERVATION DIVISION
 CASE NO. 6599
 REPORT NO. 4-B

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 amount allowable for the pool in which well is tested 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 14.695 psia and a temperature of 60° F. Specific gravity base will be 0.60.

Report casing pressure in lieu of tubing pressure for wells producing through casing.

Submit one copy of this report to the District Office of the New Mexico Oil Conservation Commission in accordance with the applicable rules.

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

W. Hailmark
 (Signature)
 Well Tester

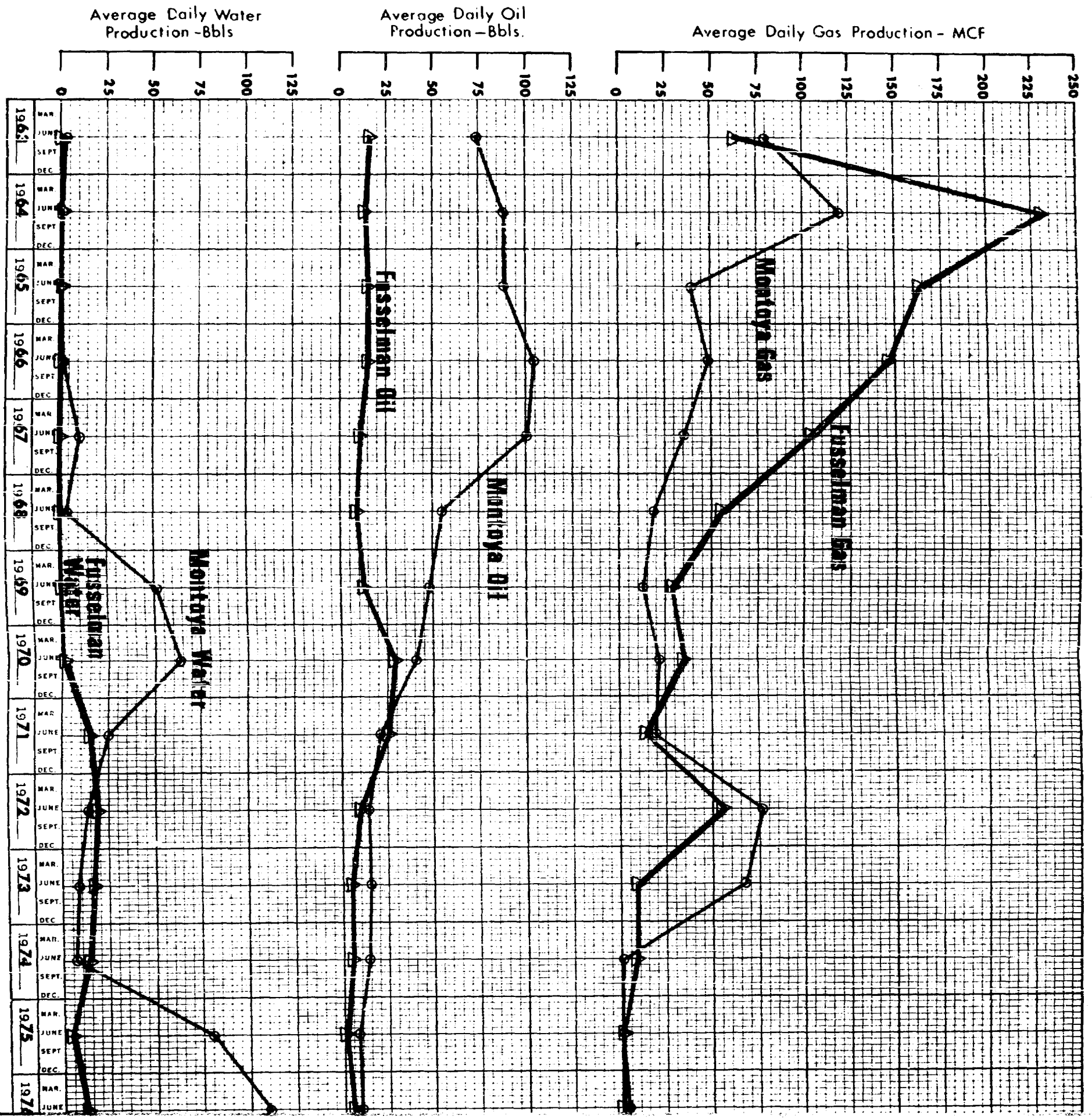
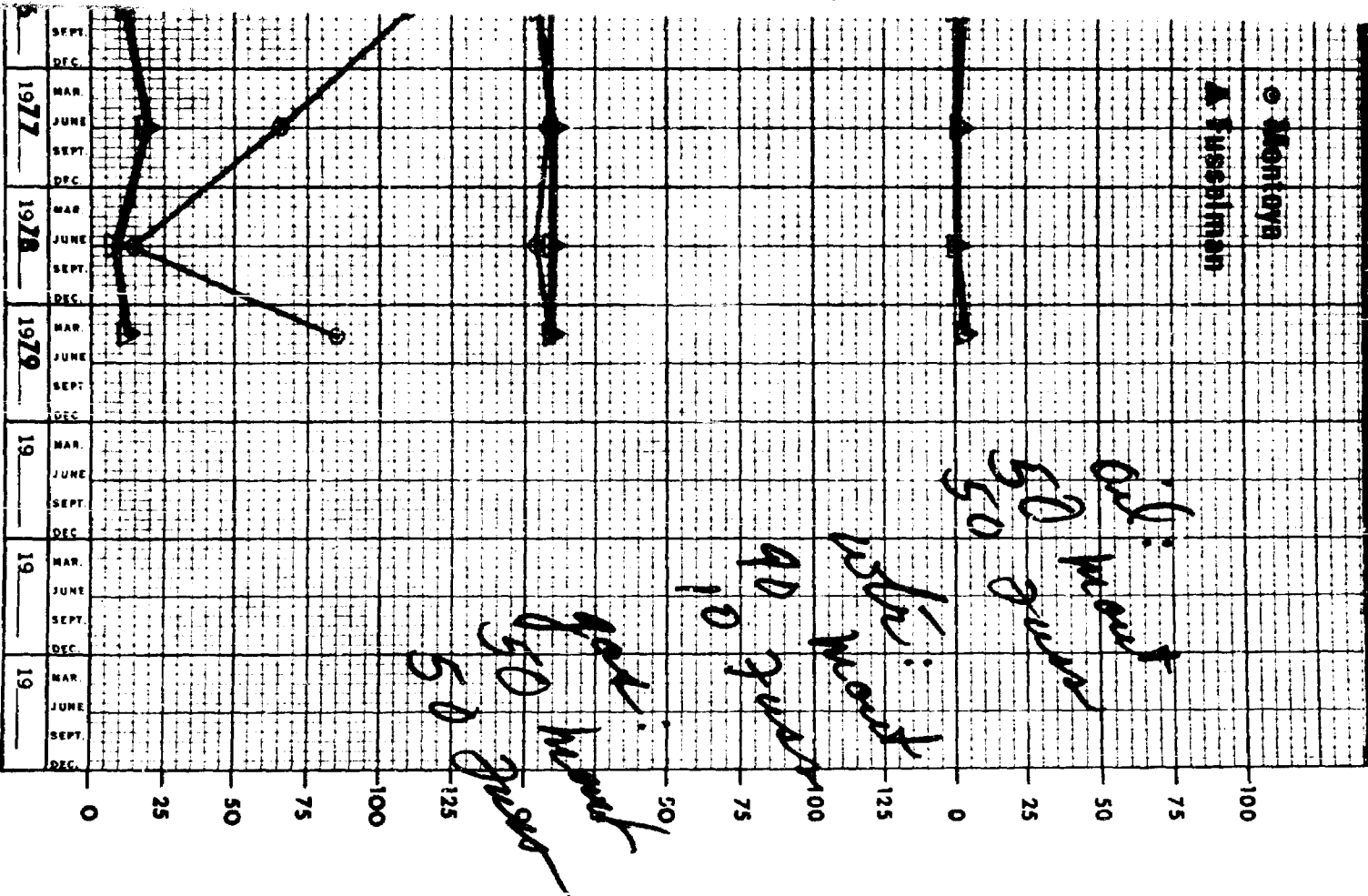


EXHIBIT NO. 5-A
CASE NO. 6599
DATE 7-25-79
PRODUCTION HISTORY - ANNUAL
W.A. RAMSAY (NCT-89) WELL NO. 4
NORTH JUSTIS POOL
LEA COUNTY, NEW MEXICO
GULF OIL CORPORATION

BEFORE EXAMINER JUTTER

OIL CONSERVATION COMMISSION

Gulf EXHIBIT NO. 5-A



K&E 10 YEARS BY MONTHS 47 3730
X 110 DIVISIONS
MADE IN U.S.A.
KEUFFEL & ESSER CO.

DAILY AVERAGE
OIL PRODUCTION -
BBLs.

DAILY AVERAGE
GAS PRODUCTION -
MCF

DAILY AVERAGE WATER PRODUCTION - BBLs.

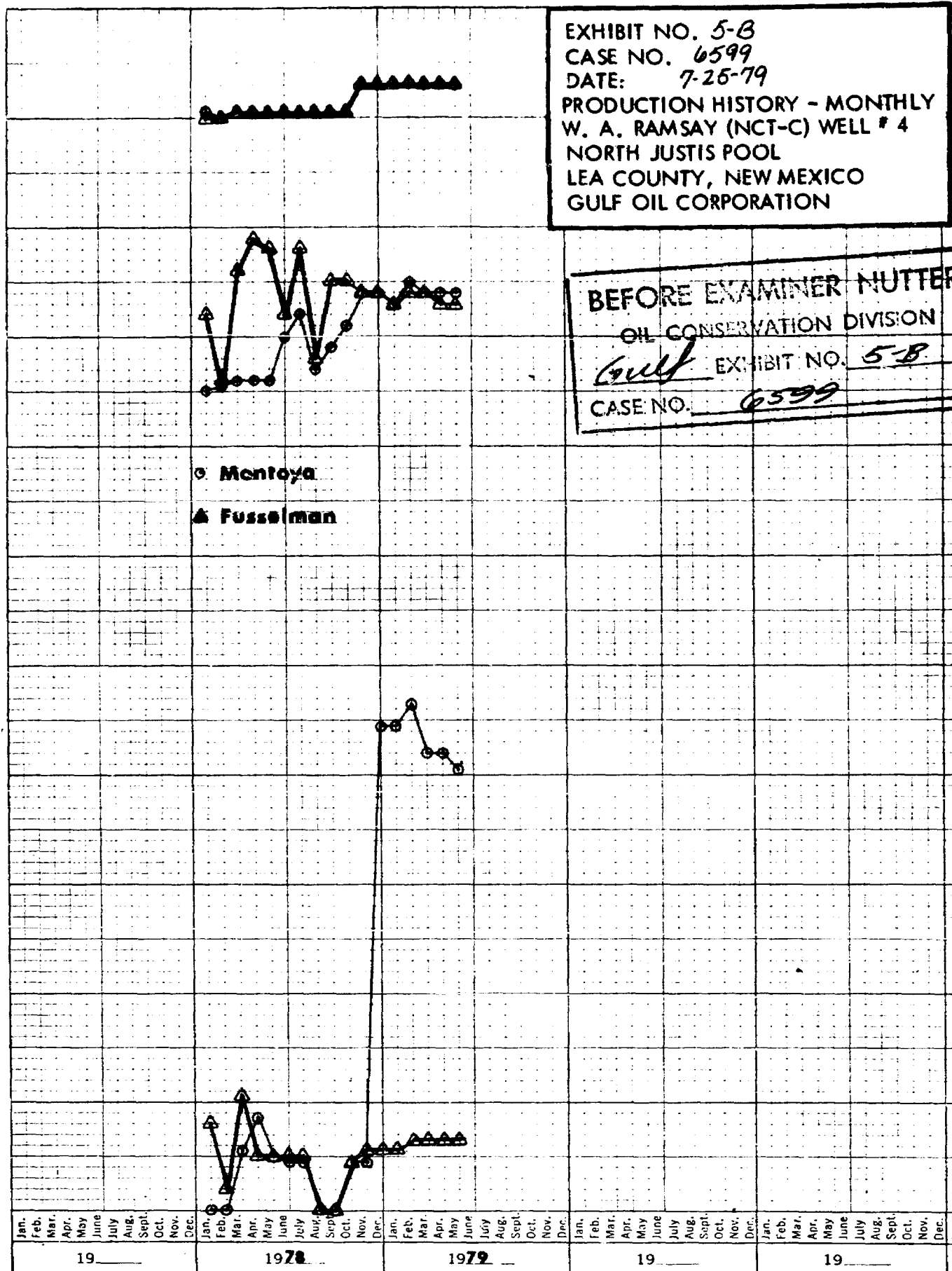


EXHIBIT NO. 5-B
 CASE NO. 6599
 DATE: 7-25-79
 PRODUCTION HISTORY - MONTHLY
 W. A. RAMSAY (NCT-C) WELL # 4
 NORTH JUSTIS POOL
 LEA COUNTY, NEW MEXICO
 GULF OIL CORPORATION

BEFORE EXAMINER NUTTER
 OIL CONSERVATION DIVISION
 Gulf EXHIBIT NO. 5-B
 CASE NO. 6599

BEFORE EXAMINER MUTTER

OIL CONSERVATION DIVISION

Gulf EXHIBIT NO. 6-A
CASE NO. 6599

EXHIBIT NO. 6-A
CASE NO. 6599
DATE: 7-25-79

PRODUCTION HISTORY
W. A. RAMSAY (NCT-C) WELL NO. 4
NORTH JUSTIS-FUSSELMAN POOL
GULF OIL CORPORATION

	OIL (BBLs)	DAILY AVERAGE OIL (BOPD)	GAS (MCF)	DAILY AVERAGE GAS (MCFPD)	WATER (BBLs)	DAILY AVERAGE WATER (BWPD)
1963	6,007	16	23,377	64	- - -	- - -
1964	5,164	14	84,734	232	- - -	- - -
1965	6,009	16	60,024	164	- - -	- - -
1966	5,730	16	53,516	147	- - -	- - -
1967	4,165	11	37,647	103	- - -	- - -
1968	3,182	9	20,440	56	58	TSTM
1969	4,340	12	10,963	30	208	TSTM
1970	10,556	29	13,321	36	435	1
1971	7,747	21	5,058	14	5,330	15
1972	4,480	12	20,516	56	6,930	19
1973	1,941	5	3,803	10	6,195	17
1974	1,873	5	3,068	8	4,950	14
1975	523	1	315	1	1,600	4
1976	1,680	5	12	TSTM	4,400	12
1977						
JAN	351	11	4	TSTM	800	26
FEB	349	12	4	TSTM	775	28
MAR	330	11	3	TSTM	800	26
APR	318	11	4	TSTM	459	15
MAY	360	12	10	TSTM	480	15
JUN	227	8	15	TSTM	430	14
JUL	266	9	8	TSTM	496	16
AUG	247	8	4	TSTM	496	16
SEPT	298	10	4	TSTM	630	21
OCT	298	10	3	TSTM	651	21
NOV	348	12	3	TSTM	600	20
DEC	229	7	2	TSTM	650	21
ANNUAL	3,621	10	64	TSTM	7,267	20

EXHIBIT NO. 6-A
CASE NO. 6599
DATE: 7-25-79

PRODUCTION HISTORY
W. A. RAMSAY (NCT-C) WELL NO. 4
NORTH JUSTIS-FUSSELMAN POOL
GULF OIL CORPORATION
PAGE TWO

	<u>OIL (BBLS)</u>	<u>DAILY AVERAGE OIL (BOFD)</u>	<u>GAS (MCF)</u>	<u>DAILY AVERAGE GAS (MCFPD)</u>	<u>WATER (BBLS)</u>	<u>DAILY AVERAGE WATER (BWPD)</u>
1978						
JAN	216	7	3	TSTM	500	16
FEB	38	1	-	- - -	100	4
MAR	351	11	5	TSTM	650	21
APR	419	14	6	TSTM	300	10
MAY	411	13	7	TSTM	310	10
JUN	220	7	2	TSTM	300	10
JUL	407	13	5	TSTM	300	10
AUG	100	3	1	TSTM	- - -	- - -
SEPT	297	10	3	TSTM	- - -	- - -
OCT	309	10	2	TSTM	280	9
NOV	256	9	94	3	340	11
DEC	280	9	95	3	355	11
ANNUAL	3,304	9	218	0.6	3,455	9
1979						
JAN	253	8	90	3	355	11
FEB	254	9	89	3	364	13
MAR	279	9	90	3	403	13
APR	249	8	91	3	390	13
MAY	249	8	91	3	390	13
ANNUAL TO DATE	1,284	9	451	3	1,902	13

BEFORE EXAMINER MUTTER

OIL CONSERVATION DIVISION

Gulf EXHIBIT NO. 6-B

CASE NO. 6529

EXHIBIT NO. 6-B

CASE NO. 6599

DATE: 7-25-79

PRODUCTION HISTORY

A. RAMSAY (NCT-C) WELL NO. 4
 NORTH JUSTIS-MONTOYA POOL
 GULF OIL CORPORATION

	OIL (BBLs)	DAILY AVERAGE OIL (BOPD)	GAS (MCF)	DAILY AVERAGE GAS (MCFPD)	WATER (BBLs)	DAILY AVERAGE WATER (BWPD)
1963	26,847	74	29,352	80	565	2
1964	32,353	89	44,455	122	- - -	- - -
1965	33,004	90	14,517	40	- - -	- - -
1966	38,651	106	18,094	50	323	1
1967	37,056	102	13,167	36	3,838	11
1968	20,596	56	7,276	20	1,596	4
1969	17,343	48	4,923	13	18,667	51
1970	14,427	40	8,373	23	23,132	63
1971	8,559	23	7,449	20	9,308	26
1972	5,718	16	28,005	77	5,595	15
1973	6,083	17	2,493	67	3,385	9
1974	5,294	15	767	2	2,390	7
1975	3,308	9	359	1	29,465	81
1976	3,518	10	1,369	4	40,600	111
1977						
JAN	449	14	5	TSTM	3,100	100
FEB	455	16	4	TSTM	2,800	100
MAR	334	11	3	TSTM	3,100	100
APR	364	12	5	TSTM	2,700	90
MAY	388	13	10	TSTM	2,790	90
JUN	352	12	29	1	2,500	83
JUL	234	8	5	TSTM	1,350	44
AUG	260	8	4	TSTM	1,350	44
SEPT	333	11	4	TSTM	3,000	100
OCT	180	6	2	TSTM	1,350	44
NOV	- - - -	- -	408	14	- - -	- - -
DEC	- - - -	- -	- - - -	- - -	- - -	- - -
ANNUAL	3,349	9	479	1	24,040	66

EXHIBIT NO. 6-B
CASE NO. 6599
DATE: 7-25-79

PRODUCTION HISTORY
W. A. RAMSAY (NCT-C) WELL NO. 4
NORTH JUSTIS-MONTOYA POOL
GULF OIL CORPORATION
PAGE TWO

	<u>OIL (BBLs)</u>	<u>DAILY AVERAGE OIL (BOPD)</u>	<u>GAS (MCF)</u>	<u>DAILY AVERAGE GAS (MCFPD)</u>	<u>WATER (BBLs)</u>	<u>DAILY AVERAGE WATER (BWPD)</u>
1978						
JAN	- - - -	- -	- - - -	- - - -	- - -	- - -
FEB	1	TSTM	- - - -	- - - -	- - -	- - -
MAR	20	1	1	TSTM	330	11
APR	28	1	1	TSTM	500	17
MAY	29	1	2	TSTM	295	10
JUN	149	5	1	TSTM	280	9
JUL	205	7	3	TSTM	280	9
AUG	71	2	2	TSTM	- - -	- - -
SEPT	130	4	1	TSTM	- - -	- - -
OCT	199	6	2	TSTM	270	9
NOV	256	9	94	3	280	9
DEC	281	9	90	3	2,745	89
ANNUAL	1,369	4	197	0.5	4,980	14
1979						
JAN	252	8	90	3	2,745	89
FEB	282	10	89	3	2,600	93
MAR	291	9	90	3	2,604	84
APR	280	9	90	3	2,520	84
MAY	278	9	90	3	2,520	81
ANNUAL TO DATE	1,383	9	449	3	12,989	86

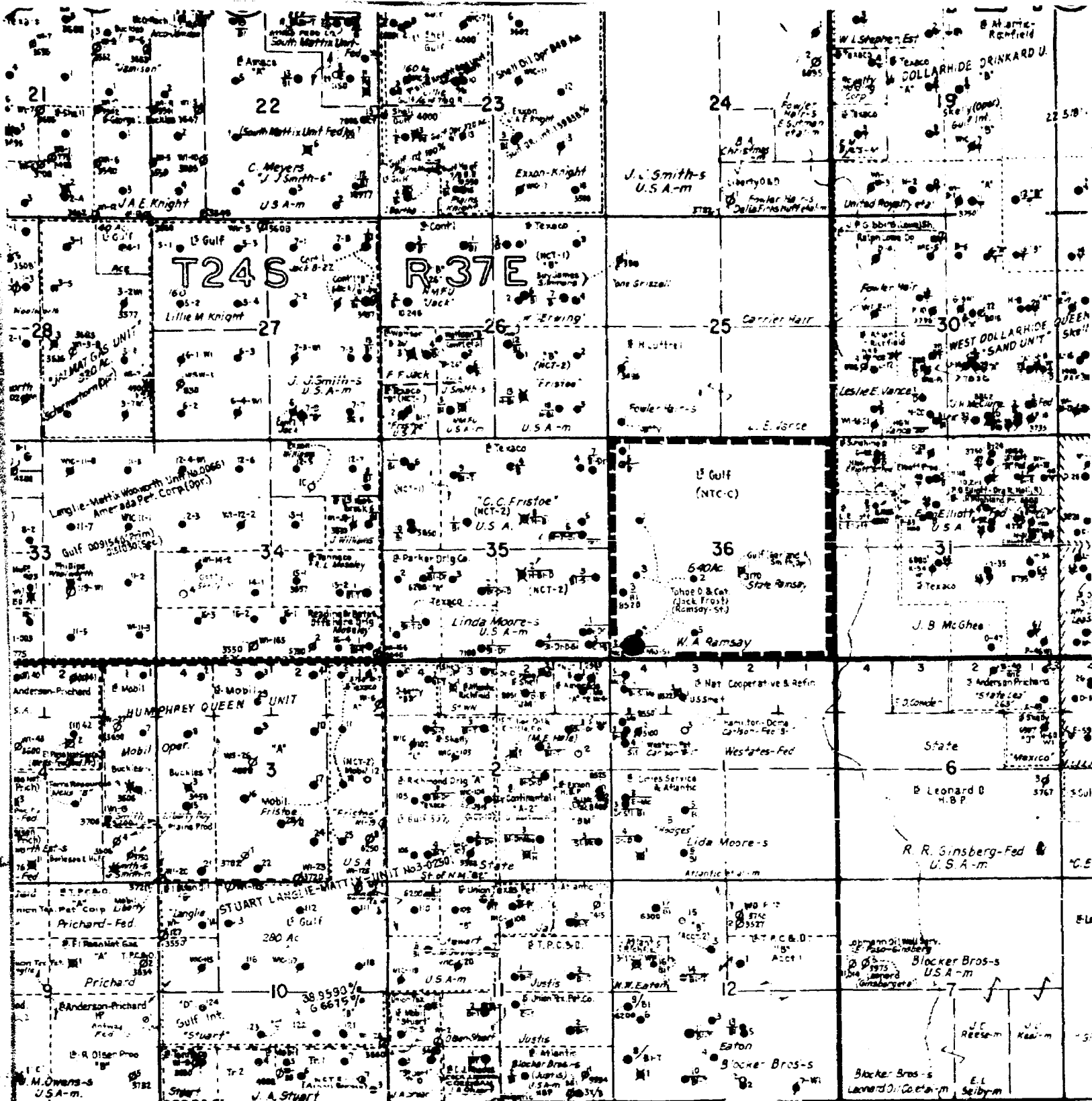


EXHIBIT NO. 1
CASE NO. 6599
DATE: 7-25-79

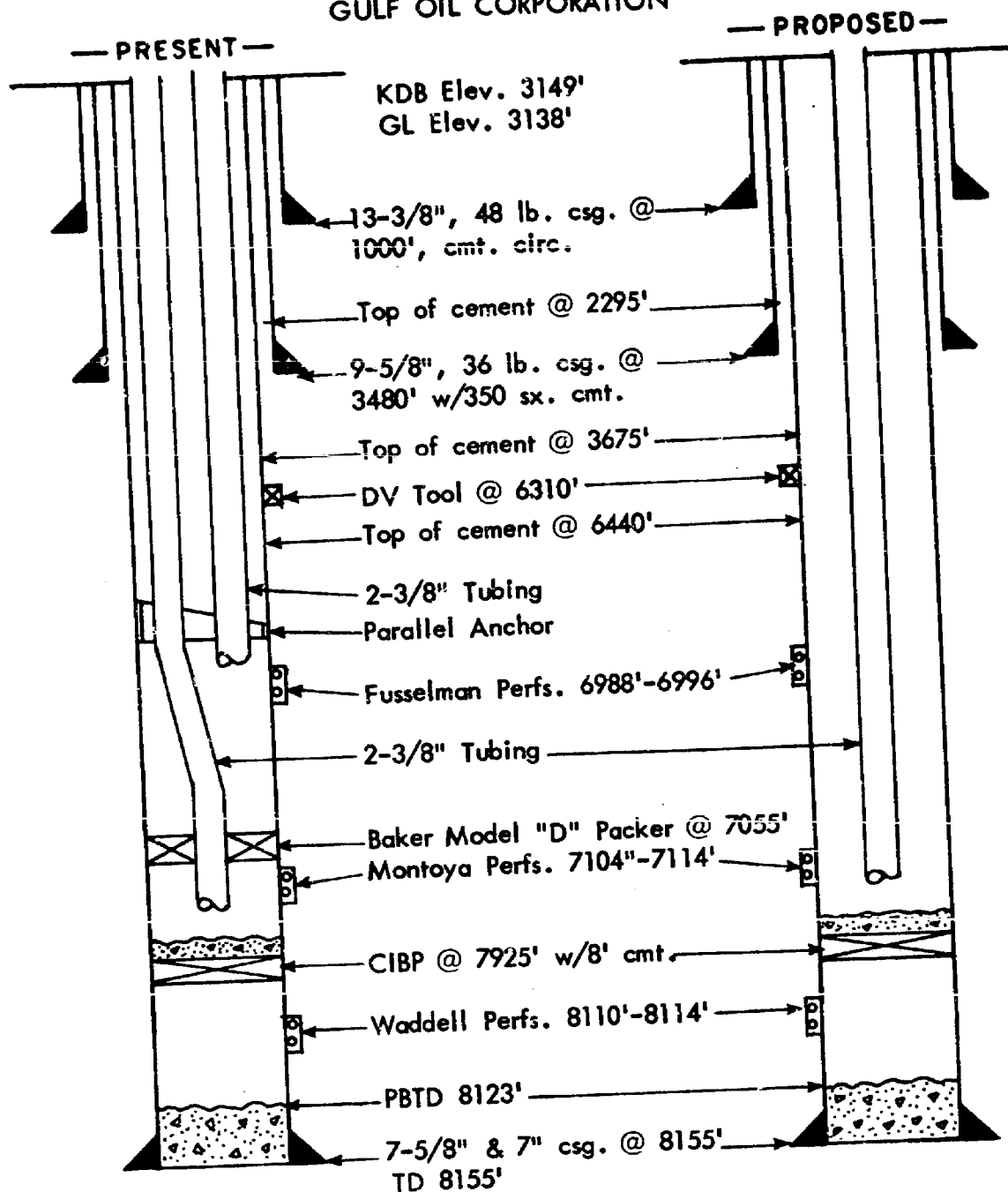
W. A. RAMSAY (NCT-C) WELL NO. 4
LEA COUNTY, NEW MEXICO
GULF OIL CORPORATION

BEFORE EXAMINER NUTTE
OIL CONSERVATION DIVISION
Gulf's EXHIBIT NO. 1
CASE NO. 6599

● Well proposed for downhole commingling

Diagrammatic Sketch Showing

PRESENT & PROPOSED INSTALLATION
W. A. RAMSAY (NCT-C), WELL NO. 4
UNIT M, SEC. 36, T-24-S, R-37-E
LEA COUNTY, NEW MEXICO
GULF OIL CORPORATION



DEPT. OF LAND & WATER
OIL & GAS DIVISION
Gulfs' SURVEY NO. 2
CASE NO. 6599

EXHIBIT NO. 2
CASE NO. 6599
DATE 7-25-79

EXHIBIT NO. 3
CASE NO. 6599
DATE: 7-25-79
GULF OIL CORPORATION
WELL DATA

- (1) Operator: Gulf Oil Corporation
Post Office Box 670
Hobbs, New Mexico 88240
- (2) Well Name & Location: W. A. Ramsay (NCT-C) No. 4
330' FSL and 430' FWL of Section 36, T-24-S, R-37-E,
Lea County, New Mexico
- (3) Pools: Justis Fusselman (6988'-6996')
Justis Montoya (7110'-7114')
Triple completed with the North Justis Waddell (8110'-8114') under
Order No. R-2430. Waddell was plugged and abandoned 11-71.
- (4) Current Production: See attached C-116.
- (5) Production Decline and Well History: See attached curves for decline.

Well was spudded on October 29, 1962 and drilled to a total depth of 8155'. Seven inch production casing was set at 8155'. The well was triple completed in the North Justis Fusselman, North Justis Montoya, and North Justis Waddell zones under Order No. R-2430. The Waddell was perforated in the interval 8110'-8114' and treated with 500 gallons of 15% NE acid and 2000 gallons of 15% HCL. Initially, the well flowed 198 BOPD on a 12/64" choke.

In 1963, the zone was reacidized with 1000 gallons 15% HCL and additional zones were perforated and treated with 2000 gallons Super F acid. Additional zones that were perforated and treated included 8109-8113', and 8090-8094'. The Waddell zone was TA'd on 8-18-64 and plugged on 11-17-71.

The Montoya zone was perforated in the interval 7104-14' and treated with 500 gallons 15% NE acid. The zone was squeezed and reperforated in the interval 7110-14' and treated with 1250 gallons 15% HCL. The Montoya zone initially flowed 188 BOPD after completion. The Fusselman was perforated in the interval 6988'-6996' and treated with 1000 gallons 15% HCL. Initial production from the Fusselman zone was 166 BOPD.

- (6) Estimated Bottom Hole Pressure: The bottom hole pressure for both zones is estimated to be 1000 psi based on offset information.
- (7) Fluid Characteristics: Production from the North Justis Fusselman and North Justis Montoya pools is being commingled in surface storage facilities under Administrative Order PC-72. No evidence of fluid incompatibility has been experienced to date and no future problems are anticipated.

FILED IN	INDEXED
641fs	3
6599	

EXHIBIT NO. 3
CASE NO. 6599
DATE: 7-25-99
GULF OIL CORPORATION
WELL DATA
PAGE TWO

- (8) Value of Commingled Production: No change in value of the crude is anticipated since the zones are already commingled at the surface under Administrative Order PC-72.
- (9) List of offset operators attached.

NEW MEXICO OIL CONSERVATION COMMISSION
GAS-OIL RATIO TESTS

C-110
Revised 1-1-65

Lease: Gulf Oil Corporation		Pool: Justis Montoya North		County: Lea												
Box 670, Hobbs, NM 88240		TYPE OF TEST - (X)		Scheduled <input checked="" type="checkbox"/> Completion <input type="checkbox"/> Special <input type="checkbox"/>												
LEASE NAME	WELL NO.	LOCATION				DATE OF TEST	STATUS	CHOKE SIZE	TSG. PRESS.	DAILY ALLOWABLE	LENGTH OF TEST HOURS	PROD. DURING TEST				GAS - OIL RATIO CU.FT/BSL
		U	S	T	R							WATER BBL.	GRAV. OIL	OIL BBL.	GAS M.C.F.	
A. Ramsay (NOT-C)	4	M	36	24	37	4-7-78	P	2" NO	30	10	24	90	39.1	12	TSTM	-

RECEIVED DISTRICT OFFICE
OIL CONSERVATION COMMISSION
6415 DISTRICT NO. 44
CASE NO. 6599

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.
File original and one copy of this report to the district office of the New Mexico Oil Conservation Commission in accordance with Rule 111.100, appropriate provisions.

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

W. R. Hall
(Signature)
Well Tester

NEW MEXICO OIL CONSERVATION COMMISSION
GAS-OIL RATIO TESTS

C-116
Revised 1-1-65

Gulf Oil Corporation		Pool Justis Fusselman North				County Lea									
Box 670, Hobbs, NM 88240				TYPE OF TEST - (X)		Scheduled <input type="checkbox"/> Completion <input type="checkbox"/> Special <input type="checkbox"/>									
LEASE NAME	WELL NO.	LOCATION				DATE OF TEST	CHOKES SIZE	TSG. PRESS.	DAILY ALLOWABLE	LENGTH OF TEST HOURS	PROD. DURING TEST				GAS - OIL RATIO CU. FT/BSL
		U	S	T	R						WATER GALS.	GRAV. OIL	OIL GALS.	GAS M.C.F.	
A. Ramsay (NCT-C)	4	M	36	24	37	4-8-78	2" WO	30	14	24	20	59.0	10	TSTM	-

REPORT PREPARED BY
OIL CONSERVATION DIVISION
641fs REPORT NO. 48
CASE NO. 6599

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 25 percent allowable for the pool in which well is tested by more than 1 percent. Operator is encouraged to take advantage of this 25 percent tolerance in order that well can be assigned increased allowable when authorized by the Commission.

Gas volumes must be reported in MCF measured at a pressure base of 14.73 PSIA and a temperature of 60° F. Specific gravity base shall be 0.60.

Report casing pressure in lieu of tubing pressure for wells producing through casing.

Submit one copy of this report to the Director of the New Mexico Oil Conservation Commission in accordance with the rules and regulations of the Commission.

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

W. H. Hallmark
(Signature)

Well Tester

GULF OIL CORPORATION
 PRODUCTION DIVISION
 W. A. RAMSAY (NCT-C) WELL NO. 4
 NORTH JUSTIS-FUSSELMAN POOL
 GULF OIL CORPORATION
 EXHIBIT NO. 6-A
 CASE NO. 6599
 DATE: 7-25-72

EXHIBIT NO. 6-A
 CASE NO. 6599
 DATE: 7-25-72
 PRODUCTION HISTORY
 W. A. RAMSAY (NCT-C) WELL NO. 4
 NORTH JUSTIS-FUSSELMAN POOL
 GULF OIL CORPORATION

	OIL (BBLs)	DAILY AVERAGE OIL (BOPD)	GAS (MCF)	DAILY AVERAGE GAS (MCFD)	WATER (BBLs)	DAILY AVERAGE WATER (BWPD)
1963	6,007	16	23,377	64	- - -	- - -
1964	5,164	14	84,734	232	- - -	- - -
1965	6,009	16	60,024	164	- - -	- - -
1966	5,730	16	53,516	147	- - -	- - -
1967	4,165	11	37,647	103	- - -	- - -
1968	3,182	9	20,440	56	58	TSTM
1969	4,340	12	10,963	30	208	TSTM
1970	10,556	29	13,321	36	435	1
1971	7,747	21	5,058	14	5,330	15
1972	4,480	12	20,516	56	6,930	19
1973	1,941	5	3,803	10	6,195	17
1974	1,873	5	3,068	8	4,950	14
1975	523	1	315	1	1,600	4
1976	1,680	5	12	TSTM	4,400	12
1977						
JAN	351	11	4	TSTM	800	26
FEB	349	12	4	TSTM	775	28
MAR	330	11	3	TSTM	800	26
APR	318	11	4	TSTM	459	15
MAY	360	12	10	TSTM	480	15
JUN	227	8	15	TSTM	430	14
JUL	266	9	8	TSTM	496	16
AUG	247	8	4	TSTM	496	16
SEPT	298	10	4	TSTM	630	21
OCT	298	10	3	TSTM	651	21
NOV	348	12	3	TSTM	600	20
DEC	229	7	2	TSTM	650	21
ANNUAL	3,621	10	64	TSTM	7,267	20

EXHIBIT NO. 6-A
CASE NO. 6599
DATE: 7-25-79

PRODUCTION HISTORY
W. A. RAMSAY (NCT-C) WELL NO. 4
NORTH JUSTIS-FUSSELMAN POOL
GULF OIL CORPORATION
PAGE TWO

	<u>OIL (BBLs)</u>	<u>DAILY AVERAGE OIL (BOPD)</u>	<u>GAS (MCF)</u>	<u>DAILY AVERAGE GAS (MCFPD)</u>	<u>WATER (BBLs)</u>	<u>DAILY AVERAGE WATER (BWPD)</u>
1978						
JAN	216	7	3	TSTM	500	16
FEB	38	1	-	- - -	100	4
MAR	351	11	5	TSTM	650	21
APR	419	14	6	TSTM	300	10
MAY	411	13	7	TSTM	310	10
JUN	220	7	2	TSTM	300	10
JUL	407	13	5	TSTM	300	10
AUG	100	3	1	TSTM	- - -	- - -
SEPT	297	10	3	TSTM	- - -	- - -
OCT	309	10	2	TSTM	280	9
NOV	256	9	94	3	340	11
DEC	280	9	95	3	355	11
ANNUAL	3,304	9	218	0.6	3,455	9
1979						
JAN	253	8	90	3	355	11
FEB	254	9	89	3	364	13
MAR	279	9	90	3	403	13
APR	249	8	91	3	390	13
MAY	249	8	91	3	390	13
ANNUAL TO DATE	1,284	9	451	3	1,902	13

W. A. RAMSAY (NCT-C) WELL NO. 4

OIL COMPANY DIVISION

Gulf's Case No. 68

6599

EXHIBIT NO. 6-B

CASE NO. 6599

DATE: 7-25-79

PRODUCTION HISTORY

W. A. RAMSAY (NCT-C) WELL NO. 4

NORTH JUSTIS-MONTOYA POOL

GULF OIL CORPORATION

	OIL (BBLs)	DAILY AVERAGE OIL (BOPD)	GAS (MCF)	DAILY AVERAGE GAS (MCFPD)	WATER (BBLs)	DAILY AVERAGE WATER (BWPD)
1963	26,847	74	29,352	80	565	2
1964	32,353	89	44,455	122	- - -	- - -
1965	33,004	90	14,517	40	- - -	- - -
1966	38,651	106	18,094	50	323	1
1967	37,056	102	13,167	36	3,838	11
1968	20,596	56	7,276	20	1,596	4
1969	17,343	48	4,923	13	18,667	51
1970	14,427	40	8,373	23	23,132	63
1971	8,559	23	7,449	20	9,308	26
1972	5,718	16	28,005	77	5,595	15
1973	6,083	17	2,493	67	3,385	9
1974	5,294	15	767	2	2,390	7
1975	3,308	9	359	1	29,465	81
1976	3,518	10	1,369	4	40,600	111
1977						
JAN	449	14	5	TSTM	3,100	100
FEB	455	16	4	TSTM	2,800	100
MAR	334	11	3	TSTM	3,100	100
APR	364	12	5	TSTM	2,700	90
MAY	388	13	10	TSTM	2,790	90
JUN	352	12	29	1	2,500	83
JUL	234	8	5	TSTM	1,350	44
AUG	260	8	4	TSTM	1,350	44
SEPT	333	11	4	TSTM	3,000	100
OCT	180	6	2	TSTM	1,350	44
NOV	- - -	- -	408	14	- - -	- - -
DEC	- - -	- -	- - -	- - -	- - -	- - -
ANNUAL	3,349	9	479	1	24,040	66

EXHIBIT NO. 6-B
CASE NO. 6599
DATE: 7-25-79

PRODUCTION HISTORY
W. A. RAMSAY (NCT-C) WELL NO. 4
NORTH JUSTIS-MONTOYA POOL
GULF OIL CORPORATION
PAGE TWO

	<u>OIL (BBLs)</u>	<u>DAILY AVERAGE</u> <u>OIL (BOPD)</u>	<u>GAS (MCF)</u>	<u>DAILY AVERAGE</u> <u>GAS (MCFPD)</u>	<u>WATER (BBLs)</u>	<u>DAILY AVERAGE</u> <u>WATER (BWPD)</u>
1978						
JAN	- - - -	- -	- - - -	- - - -	- - - -	- - - -
FEB	1	TSTM	- - - -	- - - -	- - - -	- - - -
MAR	20	1	1	TSTM	330	11
APR	28	1	1	TSTM	500	17
MAY	29	1	2	TSTM	295	10
JUN	149	5	1	TSTM	280	9
JUL	205	7	3	TSTM	280	9
AUG	71	2	2	TSTM	- - -	- - -
SEPT	130	4	1	TSTM	- - -	- - -
OCT	199	6	2	TSTM	270	9
NOV	256	9	94	3	280	9
DEC	281	9	90	3	2,745	89
ANNUAL	1,369	4	197	0.5	4,980	14
1979						
JAN	252	8	90	3	2,745	89
FEB	282	10	89	3	2,600	93
MAR	291	9	90	3	2,604	84
APR	280	9	90	3	2,520	84
MAY	278	9	90	3	2,520	81
ANNUAL TO DATE	1,383	9	449	3	12,989	86

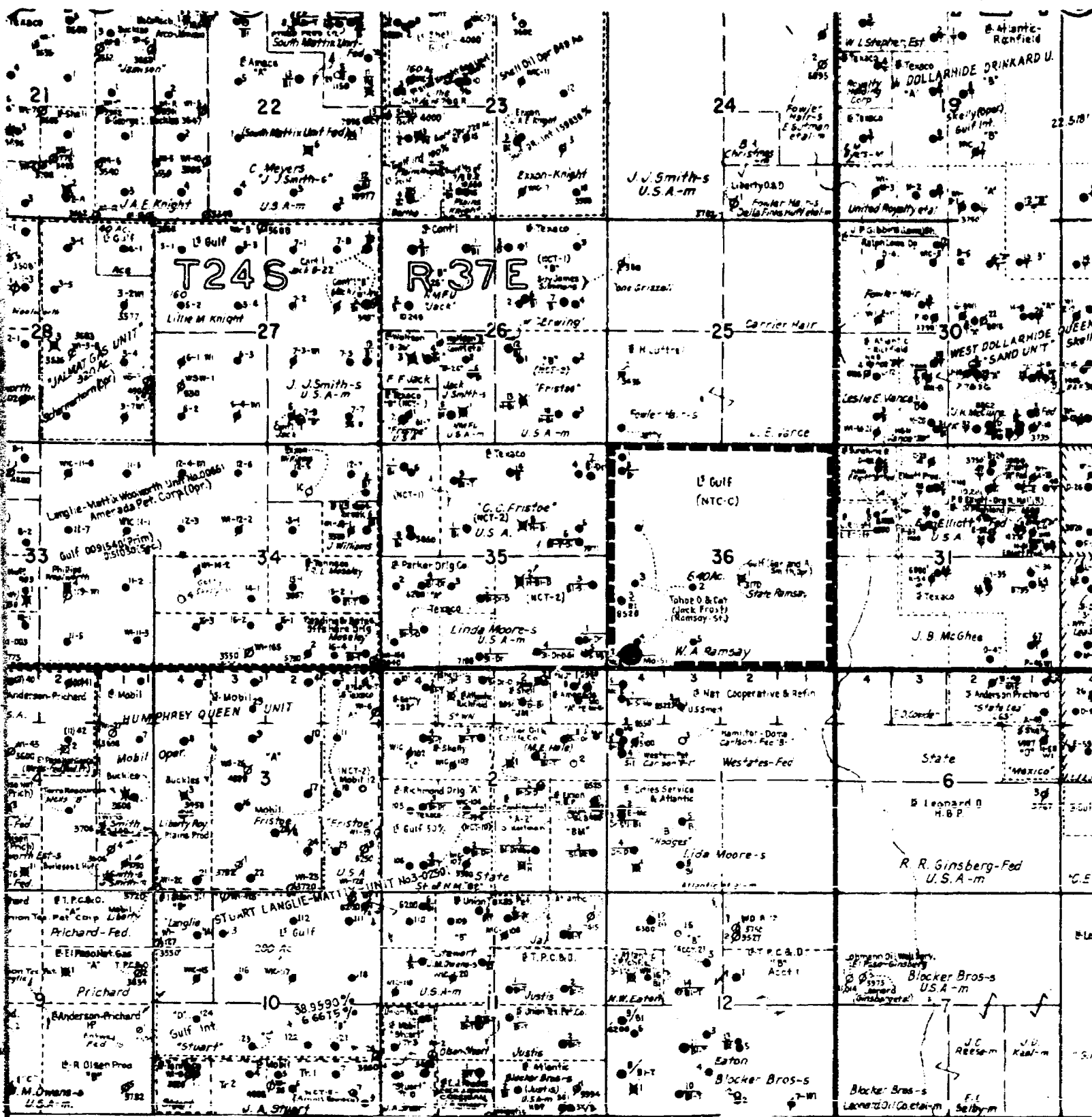


EXHIBIT NO. 1

CASE NO. 6599

DATE: 7-25-79

W. A. RAMSAY (NCT-C) WELL NO. 4
LEA COUNTY, NEW MEXICO
GULF OIL CORPORATION

BEFORE EXAMINER NUTTER

OIL CONSERVATION DIVISION

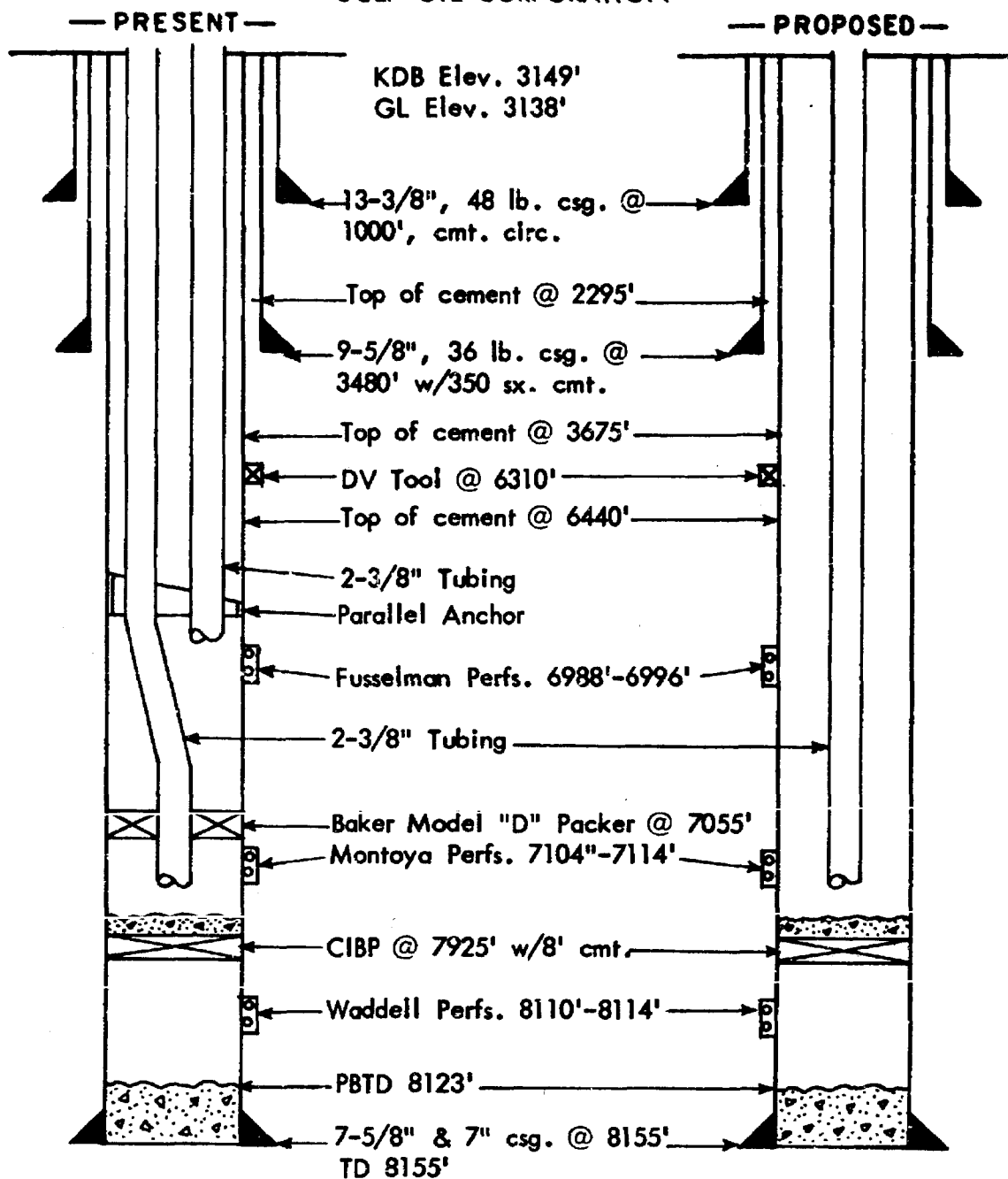
Gulfs EXHIBIT NO. 1

CASE NO. 6599

● Well proposed for downhole commingling

Diagrammatic Sketch Showing

PRESENT & PROPOSED INSTALLATION
W. A. RAMSAY (NCT-C), WELL NO. 4
UNIT M, SEC. 36, T-24-S, R-37-E
LEA COUNTY, NEW MEXICO
GULF OIL CORPORATION



BEFORE EXAMINER NUTTER

OIL CONSERVATION DIVISION

641fs EXHIBIT NO. 2
CASE NO. 6599

EXHIBIT NO. 2
CASE NO. 6599
DATE 7-25-79

EXHIBIT NO. 3
CASE NO. 6599
DATE: 7-25-79
GULF OIL CORPORATION
WELL DATA

- (1) Operator: Gulf Oil Corporation
Post Office Box 670
Hobbs, New Mexico 88240
- (2) Well Name & Location: W. A. Ramsay (NCT-C) No. 4
330' FSL and 430' FWL of Section 36, T-24-S, R-37-E,
Lea County, New Mexico
- (3) Pools: Justis Fusselman (6988'-6996')
Justis Montoya (7110'-7114')
Triple completed with the North Justis Waddell (8110'-8114') under
Order No. R-2430. Waddell was plugged and abandoned 11-71.
- (4) Current Production: See attached C-116.
- (5) Production Decline and Well History: See attached curves for decline.

Well was spudded on October 29, 1962 and drilled to a total depth of 8155'. Seven inch production casing was set at 8155'. The well was triple completed in the North Justis Fusselman, North Justis Montoya, and North Justis Waddell zones under Order No. R-2430. The Waddell was perforated in the interval 8110'-8114' and treated with 500 gallons of 15% NE acid and 2000 gallons of 15% HCL. Initially, the well flowed 198 BOPD on a 12/64" choke.

In 1963, the zone was reacidized with 1000 gallons 15% HCL and additional zones were perforated and treated with 2000 gallons Super F acid. Additional zones that were perforated and treated included 8109-8113', and 8090-8094'. The Waddell zone was TA'd on 8-18-64 and plugged on 11-17-71.

The Montoya zone was perforated in the interval 7104-14' and treated with 500 gallons 15% NE acid. The zone was squeezed and reperforated in the interval 7110-14' and treated with 1250 gallons 15% HCL. The Montoya zone initially flowed 188 BOPD after completion. The Fusselman was perforated in the interval 6988'-6996' and treated with 1000 gallons 15% HCL. Initial production from the Fusselman zone was 166 BOPD.

- (6) Estimated Bottom Hole Pressure: The bottom hole pressure for both zones is estimated to be 1000 psi based on offset information.
- (7) Fluid Characteristics: Production from the North Justis Fusselman and North Justis Montoya pools is being commingled in surface storage facilities under Administrative Order PC-72. No evidence of fluid incompatibility has been experienced to date and no future problems are anticipated.

REPORT EXAMINER NUTTER	
OIL CORPORATION DIVISION	
64/15	WELL NO. <u>3</u>
CASE NO.	<u>6599</u>

EXHIBIT NO. 3
CASE NO. 6599
DATE: 7-25-79
GULF OIL CORPORATION
WELL DATA
PAGE TWO

- (8) Value of Commingled Production: No change in value of the crude is anticipated since the zones are already commingled at the surface under Administrative Order PC-72.
- (9) List of offset operators attached.

NEW MEXICO OIL CONSERVATION COMMISSION
GAS-OIL RATIO TESTS

G-110
Revised 1-1-65

Gulf Oil Corporation		Pool Justis Montoya North		County Lea											
Box 670, Hobbs, NM 88240		TYPE OF TEST - (X)		Scheduled <input checked="" type="checkbox"/> A	Completion <input type="checkbox"/>										
LEASE NAME	WELL NO.	LOCATION				DATE OF TEST	CHOKE SIZE	TSG. PRESS.	DAILY ALLOW-ABLE	LENGTH OF TEST HOURS	PROD. DURING TEST				GAS - OIL RATIO CU. FT/BSL
		U	S	T	R						WATER BBL.	GRAV. OIL	OIL BBL.	GAS M.C.F.	
A. Ramsay (NOT-C)	4	M	36	24	37	4-7-78	P 2" NO	30	10	24	90	39.1	12	TSTM	-

BEFORE EXAMINER MUTTER
OIL CONSERVATION DIVISION
6416 EXHIBIT NO. 49
CASE NO. 6599

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 allowable 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.
File original and one copy of this report to the district office of the New Mexico Oil Conservation Commission in accordance with Rule 11.1 appropriate provisions.

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

W. B. Hallman
(Signature)

Well Tester

NEW MEXICO OIL CONSERVATION COMMISSION
GAS-OIL RATIO TESTS

C-113
Revised 1-1-55

Gulf Oil Corporation

Pool Justis Fusselman North

County Lea

Box 670, Hobbs, NM 88240

TYPE OF
TEST - (X)

Scheduled ☐

Completion ☐

Special ☐

LEASE NAME	WELL NO.	LOCATION				DATE OF TEST	WELL TYPE	CROCK SIZE	TSG. PRESS.	DAILY ALLOWABLE	LENGTH OF TEST HOURS	PROD. DURING TEST				GAS - OIL RATIO CU.FT/BSL
		U	S	T	R							WATER GALS.	GRAV. OIL	OIL GALS.	GAS M.C.F.	
A. Ramsay (NCT-C)	4	M	36	24	37	4-8-78		2" WO	30	14	24	20	39.0	10	TSTM	-

SEALING PLUGS NOTED
OIL CONSERVATION DIVISION
64165 EXHIBIT NO. 48
CASE NO. 6599

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 10% of the allowable for the pool in which well is cased by more than 1 inch. 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 14.7325 psia and a temperature of 60° F. Specific gravity base will be 0.60.

Report casing pressure in lieu of tubing pressure when well is producing through casing.

Submit a copy of this report to the District Office of the New Mexico Oil Conservation Commission in accordance with the applicable rules.

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

W. H. Hailmark

(Signature)

Well Tester

DETACH HERE
 OIL CO. OF CALIFORNIA
 641fs
 CASE NO. 6599

EXHIBIT NO. 6-A
 CASE NO. 6599
 DATE: 7-26-79

PRODUCTION HISTORY
 W. A. RAMSAY (NCT-C) WELL NO. 4
 NORTH JUSTIS-FUSSELMAN POOL
 GULF OIL CORPORATION

	OIL (BBLs)	DAILY AVERAGE OIL (BOPD)	GAS (MCF)	DAILY AVERAGE GAS (MCFPD)	WATER (BBLs)	DAILY AVERAGE WATER (BWPD)
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1964	5,164	14	84,734	232	- - -	- - -
1965	6,009	16	60,024	164	- - -	- - -
1966	5,730	16	53,516	147	- - -	- - -
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1968	3,182	9	20,440	56	58	TSTM
1969	4,340	12	10,963	30	208	TSTM
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1976	1,680	5	12	TSTM	4,400	12
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AUG	247	8	4	TSTM	496	16
SEPT	298	10	4	TSTM	630	21
OCT	298	10	3	TSTM	651	21
NOV	348	12	3	TSTM	600	20
DEC	229	7	2	TSTM	650	21
ANNUAL	3,621	10	64	TSTM	7,267	20

EXHIBIT NO. 6-ACASE NO. 6599DATE: 7-25-79

PRODUCTION HISTORY
W. A. RAMSAY (NCT-C) WELL NO. 4
NORTH JUSTIS-FUSSELMAN POOL
GULF OIL CORPORATION
PAGE TWO

	<u>OIL (BBLs)</u>	<u>DAILY AVERAGE OIL (BOPD)</u>	<u>GAS (MCF)</u>	<u>DAILY AVERAGE GAS (MCFPD)</u>	<u>WATER (BBLs)</u>	<u>DAILY AVERAGE WATER (BWPD)</u>
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JUL	407	13	5	TSTM	300	10
AUG	100	3	1	TSTM	- - -	- - -
SEPT	297	10	3	TSTM	- - -	- - -
OCT	309	10	2	TSTM	280	9
NOV	256	9	94	3	340	11
DEC	280	9	95	3	355	11
ANNUAL	3,304	9	218	0.6	3,455	9
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JAN	253	8	90	3	355	11
FEB	254	9	89	3	364	13
MAR	279	9	90	3	403	13
APR	249	8	91	3	390	13
MAY	249	8	91	3	390	13
ANNUAL TO DATE	1,284	9	451	3	1,902	13

OIL FIELD
 641fs
 CASE NO. 6599
 6-B

EXHIBIT NO. 6-B
 CASE NO. 6599
 DATE: 7-25-79

PRODUCTION HISTORY
 W. A. RAMSAY (NCT-C) WELL NO. 4
 NORTH JUSTIS-MONTOYA POOL
 GULF OIL CORPORATION

	OIL (BBLs)	DAILY AVERAGE OIL (BOPD)	GAS (MCF)	DAILY AVERAGE GAS (MCFPD)	WATER (BBLs)	DAILY AVERAGE WATER (BWPD)
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1966	38,651	106	18,094	50	323	1
1967	37,056	102	13,167	36	3,838	11
1968	20,596	56	7,276	20	1,596	4
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JAN	449	14	5	TSTM	3,100	100
FEB	455	16	4	TSTM	2,800	100
MAR	334	11	3	TSTM	3,100	100
APR	364	12	5	TSTM	2,700	90
MAY	388	13	10	TSTM	2,790	90
JUN	352	12	29	1	2,500	83
JUL	234	8	5	TSTM	1,350	44
AUG	260	8	4	TSTM	1,350	44
SEPT	333	11	4	TSTM	3,000	100
OCT	180	6	2	TSTM	1,350	44
NOV	- - -	- -	408	14	- - -	- - -
DEC	- - -	- -	- - -	- - -	- - -	- - -
ANNUAL	3,349	9	479	1	24,040	66

EXHIBIT NO. 6-B
CASE NO. 6599
DATE: 7-25-79

PRODUCTION HISTORY
W. A. RAMSAY (NCT-C) WELL NO. 4
NORTH JUSTIS-MONTOYA POOL
GULF OIL CORPORATION
PAGE TWO

	<u>OIL (BBLs)</u>	<u>DAILY AVERAGE</u> <u>OIL (BOPD)</u>	<u>GAS (MCF)</u>	<u>DAILY AVERAGE</u> <u>GAS (MCFPD)</u>	<u>WATER (BBLs)</u>	<u>DAILY AVERAGE</u> <u>WATER (BWPD)</u>
1978						
JAN	- - - -	- -	- - - -	- - - -	- - - -	- - - -
FEB	1	TSTM	- - - -	- - - -	- - - -	- - - -
MAR	20	1	1	TSTM	330	11
APR	28	1	1	TSTM	500	17
MAY	29	1	2	TSTM	295	10
JUN	149	5	1	TSTM	280	9
JUL	205	7	3	TSTM	280	9
AUG	71	2	2	TSTM	- - -	- - -
SEPT	130	4	1	TSTM	- - -	- - -
OCT	199	6	2	TSTM	270	9
NOV	256	9	94	3	280	9
DEC	281	9	90	3	2,745	89
ANNUAL	1,369	4	197	0.5	4,980	14
1979						
JAN	252	8	90	3	2,745	89
FEB	282	10	89	3	2,600	93
MAR	291	9	90	3	2,604	84
APR	280	9	90	3	2,520	84
MAY	278	9	90	3	2,520	81
ANNUAL TO DATE	1,383	9	449	3	12,989	86

OFFSET OPERATORS
to W. A. Ramsey (NCT-C) Lease

Amerada Hess Corporation
P. O. Drawer 817
Seminole, Texas 79360
ATTENTION: Mr. Grant Miller

Getty Oil Company
P. O. Box 1231
Midland, Texas 79702
ATTENTION: Mr. Joe King

ARCO Oil and Gas Company
P. O. Box 1610
Midland, Texas 79702

HNG Oil Company
P. O. Box 2267
Midland, Texas 79702

National Cooperative Refinery Association
404 Lincoln Tower Building
Denver, Colorado 80203

Parker Drilling Company
P. O. Box 1742
Midland, Texas 79702

Texaco, Inc.
P. O. Box 3109
Midland, Texas 79702
ATTENTION: Mr. Paul Davis

Carl Ulvog

5/21

Dan:

I talked to Anderson about this. Told him it will take a hearing. He needs to check with Kalteyer (Midland). I told him we could get it in on June 13th if they want it then.

Someone with Gulf is supposed to call back today or tomorrow, may be after I've headed south.

CU

Too much wtr in Om.

Gulf Oil Exploration and Production Company

April 30, 1979

R. C. Anderson
PRODUCTION MANAGER, HOBBS AREA

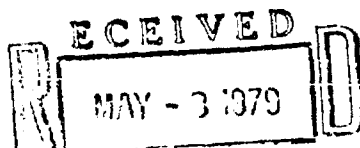
P. O. Box 870
Hobbs, NM 88240

Re: W. A. Ramsay (NCT-C) No. 4,
Section 36-24S-37E, Lea County, New Mexico

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

Attention: Mr. Joe D. Ramey

Gentlemen:



Case 6599

We request your administrative approval for an exception to Rule 303-A to permit downhole commingling of production from the subject well. Presently, the well is dually completed in the Fusselman and Montoya pools of the North Justis field, and production from these zones is being surface commingled on the subject lease. We have not observed any evidence of fluid incompatibility at this facility and do not anticipate any reservoir damage due to the downhole commingling proposed herein. Ownership of both pools is common and no correlative rights will be violated.

The subject well is being produced by a dual pumping unit installation. If this application is approved, existing pumping equipment will be utilized to produce the fluid from the commingled zones. We plan to run tubing through the lowest perforations and keep the well pumped down to prevent crossflow between the two pools. If this application is approved, we will contact the Supervisor of the Division's Hobbs office to determine suitable allocation formula.

Additional information concerning this application is attached for your information. If you have any questions concerning this matter, please contact this office.

Yours very truly,

R. C. Anderson

R. C. ANDERSON

Attachments
MDW/dch

cc: Oil Conservation Division
P. O. Box 1980
Hobbs, NM 88240

National Cooperative Refinery Association
404 Lincoln Tower Building
Denver, CO 80203

Amerada Hess Corporation
P. O. Box 817
Seminole, TX 79360

Texaco Inc.
P. O. Box 3109
Midland, TX 79701

Parker Drilling Company
P. O. Box 1742
Midland, TX 79701



A DIVISION OF GULF OIL CORPORATION

WELL DATA

- (1) Operator: Gulf Oil Corporation
P. O. Box 670
Hobbs, NM 88240
- (2) Well Name & Location: W. A. Ramsay (NCT-C) No. 4
330'FSL & 430'FWL of Section 36, T-24-S, R-37-E,
Lea County, New Mexico
- (3) Pools: Justis Fusselman (6988'-6996')
Justis Montoya (7110'-7114')
Triple completed with the North Justis Waddell (8110'-8114') under
Order No. R-2430. Waddell was plugged and abandoned 11-71.
- (4) Current Production: See attached C-116.
- (5) Production Decline and Well History: See attached curves for decline.

Well was spudded on October 29, 1962 and drilled to a total depth of 8155'. Seven inch production casing was set at 8155'. The well was triple completed in the North Justis Fusselman, North Justis Montoya, and North Justis Waddell zones under Order No. R-2430. The Waddell was perforated in the interval 8110'-8114' and treated with 500 gallons of 15% NE acid and 2000 gallons of 15% HCl. Initially, the well flowed 198 BOPD on a 12/64" choke.

In 1963, the zone was reacidized with 1000 gallons 15% HCl and additional zones were perforated and treated with 2000 gallons Super F acid. Additional zones that were perforated and treated included 8109-8113', and 8090-8094'. The Waddell zone was TA'd on 8-18-64 and plugged on 11-17-71.

The Montoya zone was perforated in the interval 7104-14' and treated with 500 gallons 15% NE acid. The zone was squeezed and reperforated in the interval 7110-14' and treated with 1250 gallons 15% HCl. The Montoya zone initially flowed 188 BOPD after completion. The Fusselman was perforated in the interval 6988'-6996' and treated with 1000 gallons 15% HCl. Initial production from the Fusselman zone was 166 BOPD.

- (6) Estimated Bottom Hole Pressure: The bottom hole pressure for both zones is estimated to be 1000 psi based on offset information.
- (7) Fluid Characteristics: Production from the North Justis Fusselman and North Justis Montoya pools is being commingled in surface storage facilities under Administrative Order PC-72. No evidence of fluid incompatibility has been experienced to date and no future problems are anticipated.
- (8) Value of Commingled Production: No change in value of the crude is anticipated since since the zones are already commingled at the surface under Administrative Order PC-72.
- (9) All offset operators are being notified by copy of this application:

National Cooperative Refinery Association, 404 Lincoln Tower Building, Denver, CO 80203
Amerada Hess Corporation, P. O. Drawer 817, Seminole, TX 79360
Texaco Inc., P. O. Box 3109, Midland, TX 79701
Parker Drilling Company, P. O. Box 1742, Midland, TX 79701

C-118
Revised 1-1-55

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MAY - 3 1979
OIL CONSERVATION DIVISION
SANTA FE

June 12

NEW MEXICO OIL CONSERVATION COMMISSION
GAS-OIL RATIO TESTS

Call
Revised 1-1-66

Operator Gulf Oil Corporation		Pool Justis Fuscolean North				County Lea									
Address Box 670, Hobbs, NM 88240		TYPE OF TEST - (X)		Scheduled <input type="checkbox"/>		Completion <input type="checkbox"/>		Special <input type="checkbox"/>							
LEASE NAME	WELL NO.	LOCATION				DATE OF TEST	CROCK SIZE	TSG. PRESS.	DAILY ALLOWABLE	LENGTH OF TEST HOURS	PROD. DURING TEST				GAS - OIL RATIO CU.FT/BSL
		U	S	T	R						WATER BLS.	GRAV. OIL	OIL BLS.	GAS M.C.F.	
W. A. Ramsay (NCT-C)	4	M	36	24	37	4-8-78	2" NO	30	14	24	20	39.0	10	TSTM	-

RECEIVED
MAY - 3 1979
OIL CONSERVATION DIVISION
SANTA FE

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 25 percent allowable for the pool in which well is located by more than 10 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 14.7 psia and a temperature of 60° F. Specific gravity base will be 0.60.

Report casing pressure in lieu of tubing pressure for wells producing through casing.

Submit a copy of this report to the District Office of the New Mexico Oil Conservation Commission in accordance with Rule 36 and appropriate pool rules.

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

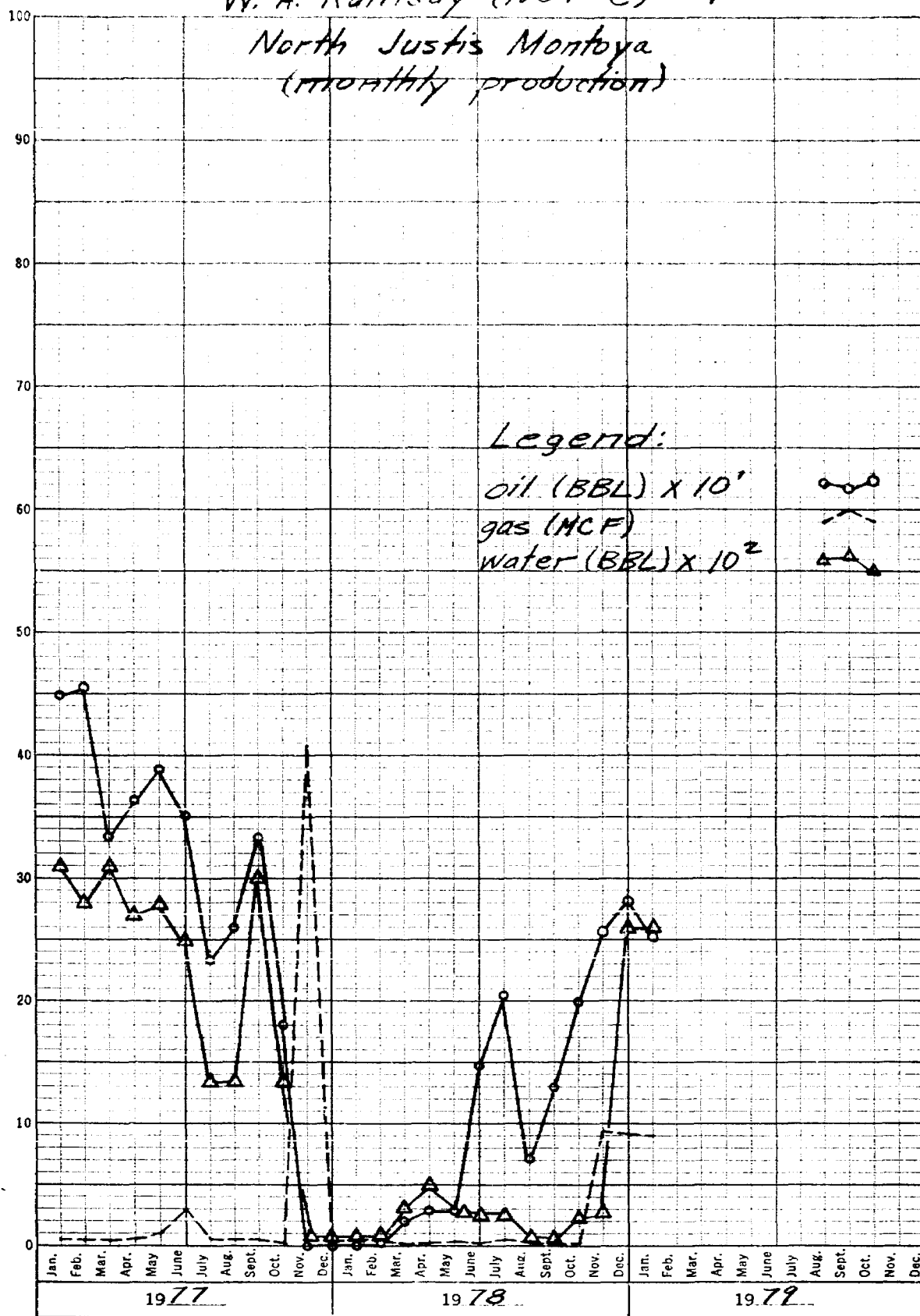
W. K. Hallmark
(Signature)

Well Tester

(Date)
June 13, 1978

W. A. Ramsay (NCT-C) #4

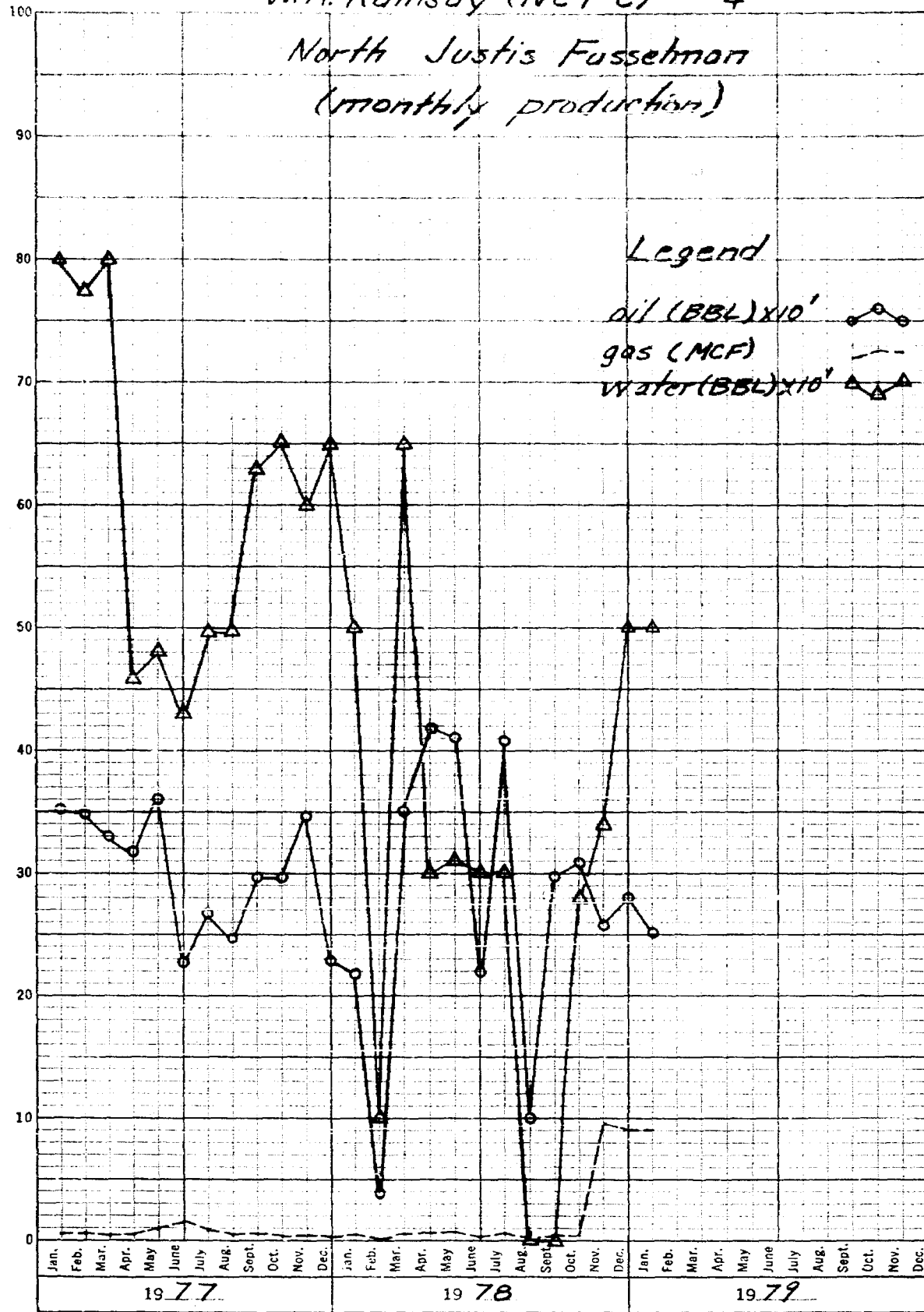
North Justis Montoya
(monthly production)



K&E 3 YEARS BY MONTHS 46 3293
X 100 DIVISIONS
MADE IN U.S.A.
KEUFFEL & ESSER CO.

K&E
 3 YEARS BY MONTHS
 X 100 DIVISIONS
 46 3293
 MADE IN U.S.A.
 KEUFFEL & ESSER CO.

W.A. Ramsey (NCT-C) #4
 North Justis Fusselman
 (monthly production)



Gulf Oil Exploration and Production Company

R. C. Anderson
PRODUCTION MANAGER, HOBBS AREA

RECEIVED April 30, 1979

MAY - 3 1979

P. O. Box 870
Hobbs, NM 88240

OIL CONSERVATION DIVISION
SANTA FE

Re: W. A. Ramsay (NCT-C) No. 4,
Section 36-24S-37E, Lea County, New Mexico

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

Case 6599

Attention: Mr. Joe D. Ramey

Gentlemen:

We request your administrative approval for an exception to Rule 303-A to permit downhole commingling of production from the subject well. Presently, the well is dually completed in the Fusselman and Montoya pools of the North Justis field, and production from these zones is being surface commingled on the subject lease. We have not observed any evidence of fluid incompatibility at this facility and do not anticipate any reservoir damage due to the downhole commingling proposed herein. Ownership of both pools is common and no correlative rights will be violated.

The subject well is being produced by a dual pumping unit installation. If this application is approved, existing pumping equipment will be utilized to produce the fluid from the commingled zones. We plan to run tubing through the lowest perforations and keep the well pumped down to prevent crossflow between the two pools. If this application is approved, we will contact the Supervisor of the Division's Hobbs office to determine suitable allocation formula.

Additional information concerning this application is attached for your information. If you have any questions concerning this matter, please contact this office.

Yours very truly,

R. C. Anderson
R. C. ANDERSON

Attachments
MDW/dch

cc: Oil Conservation Division
P. O. Box 1980
Hobbs, NM 88240

National Cooperative Refinery Association
404 Lincoln Tower Building
Denver, CO 80203

Amerada Hess Corporation
P. O. Box 817
Seminole, TX 79360

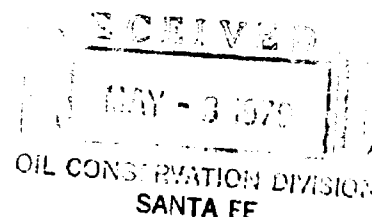
Texaco Inc.
P. O. Box 3109
Midland, TX 79701

Parker Drilling Company
P. O. Box 1742
Midland, TX 79701



A DIVISION OF GULF OIL CORPORATION

WELL DATA



- (1) Operator: Gulf Oil Corporation
P. O. Box 670
Hobbs, NM 88240
- (2) Well Name & Location: W. A. Ramsay (NCT-C) No. 4
330'FSL & 430'FWL of Section 36, T-24-S, R-37-E,
Lea County, New Mexico
- (3) Pools: Justis Fusselman (6988'-6996')
Justis Montoya (7110'-7114')
Triple completed with the North Justis Waddell (8110'-8114') under
Order No. R-2430. Waddell was plugged and abandoned 11-71.
- (4) Current Production: See attached C-116.
- (5) Production Decline and Well History: See attached curves for decline.

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- (7) Fluid Characteristics: Production from the North Justis Fusselman and North Justis Montoya pools is being commingled in surface storage facilities under Administrative Order PC-72. No evidence of fluid incompatibility has been experienced to date and no future problems are anticipated.
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- (9) All offset operators are being notified by copy of this application:
National Cooperative Refinery Association, 404 Lincoln Tower Building, Denver, CO 80203
Amerada Hess Corporation, P. O. Drawer 817, Seminole, TX 79360
Texaco Inc., P. O. Box 3109, Midland, TX 79701
Parker Drilling Company, P. O. Box 1742, Midland, TX 79701

**NEW MEXICO OIL CONSERVATION COMMISSION
GAS-OIL RATIO TESTS**

C-116
Revised 1-1-55

Operator Gulf Oil Corporation		Pool Justis Montoya North				County Lea									
Address Box 670, Hobbs, NM 88240				TYPE OF TEST - (X) <input checked="" type="checkbox"/> (X)		Scheduled <input checked="" type="checkbox"/> A		Completion <input type="checkbox"/>		Special <input type="checkbox"/>					
LEASE NAME	WELL NO.	LOCATION				DATE OF TEST	CHOKE SIZE	TSG. PRESS.	DAILY ALLOWABLE	LENGTH OF TEST HOURS	PROD. DURING TEST				GAS - OIL RATIO CU.FT/BSL
		U	S	T	R						WATER BBL.	GRAV. OIL	OIL BBL.	GAS M.C.F.	
W. A. Ramsay (NCT-C)	4	N	36	24	37	4-7-78	2" WO	30	10	24	90	39.1	12	TSTM	-

RECEIVED
MAY - 3 1979
OIL CONSERVATION DIVISION
SANTA FE

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.

File 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 provisions.

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

W. L. Hallmark

(Signature)

Well Tester

(Title)

June 28

**NEW MEXICO OIL CONSERVATION COMMISSION
GAS-OIL RATIO TESTS**

C-116
Revised 1-1-65

Lessee Gulf Oil Corporation		Pool Justis Fusselman North				County Lea									
Box 670, Hobbs, NM 88240						TYPE OF TEST - (X) <input checked="" type="checkbox"/> Scheduled <input type="checkbox"/> Completion <input type="checkbox"/> Special <input type="checkbox"/>									
LEASE NAME	WELL NO.	LOCATION				DATE OF TEST	CHOKES SIZE	TBO. PRESS.	DAILY ALLOWABLE	LENGTH OF TEST HOURS	PROD. DURING TEST				GAS - OIL RATIO CU.FT./BBL
		U	S	T	R						WATER GALS.	GRAV. OIL	OIL GALS.	GAS M.C.F.	
J. A. Ramsay (NCT-C)	4	M	36	24	37	4-8-78	2" HO	30	14	24	20	39.0	10	TSTM	-

RECEIVED
 MAY - 3 1978
 OIL CONSERVATION DIVISION
 SANTA FE

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During gas-oil ratio test, each well shall be produced at a rate not exceeding the assigned 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 wells producing through casing.

Submit a copy of this report to the District Office of the New Mexico Oil Conservation Commission in accordance with Rule 35, and appropriate prod. rules.

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

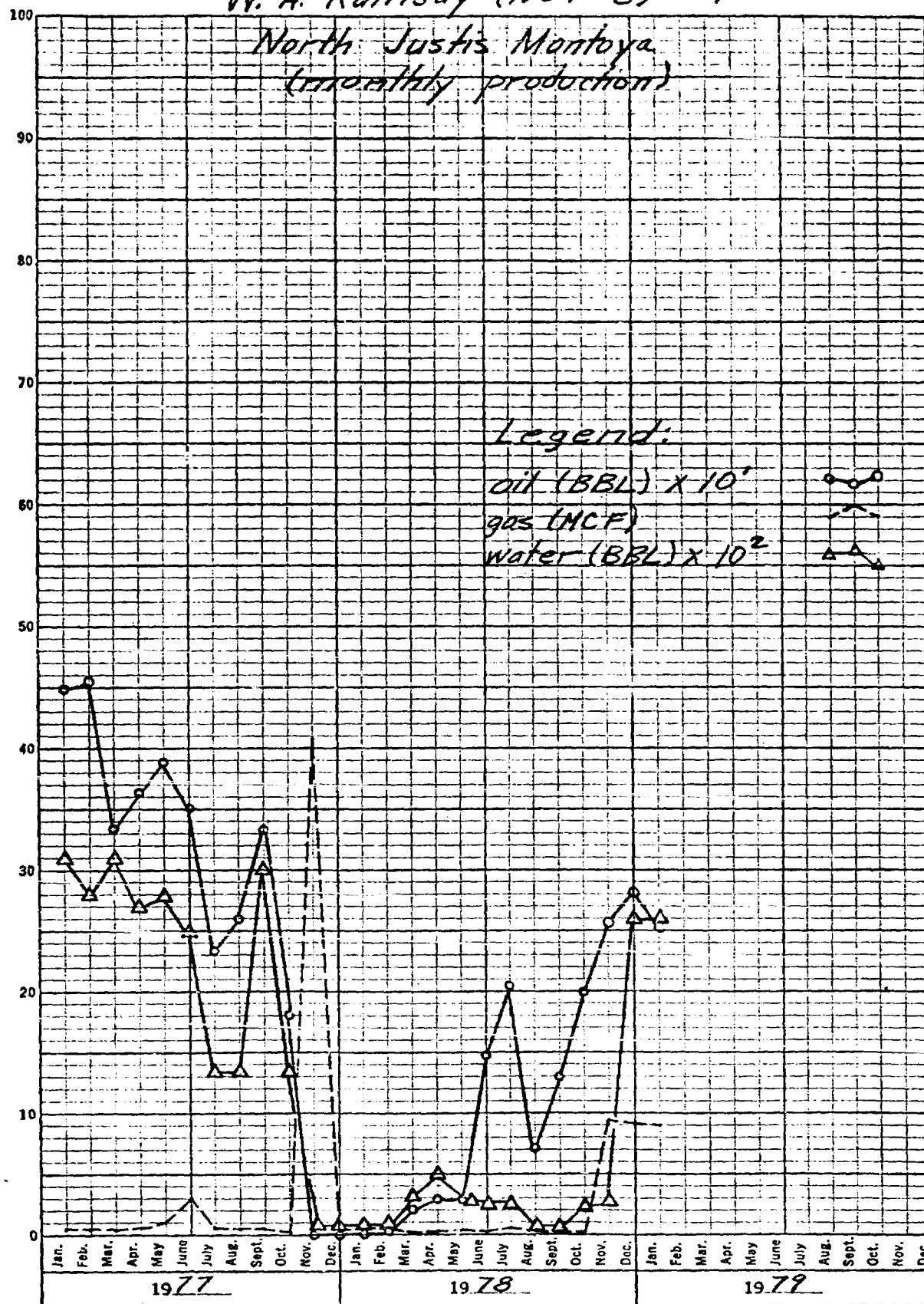
W. Hailmark
(Signature)

Well Tester

June 13, 1978

W. A. Ramsay (NCT-C) #4

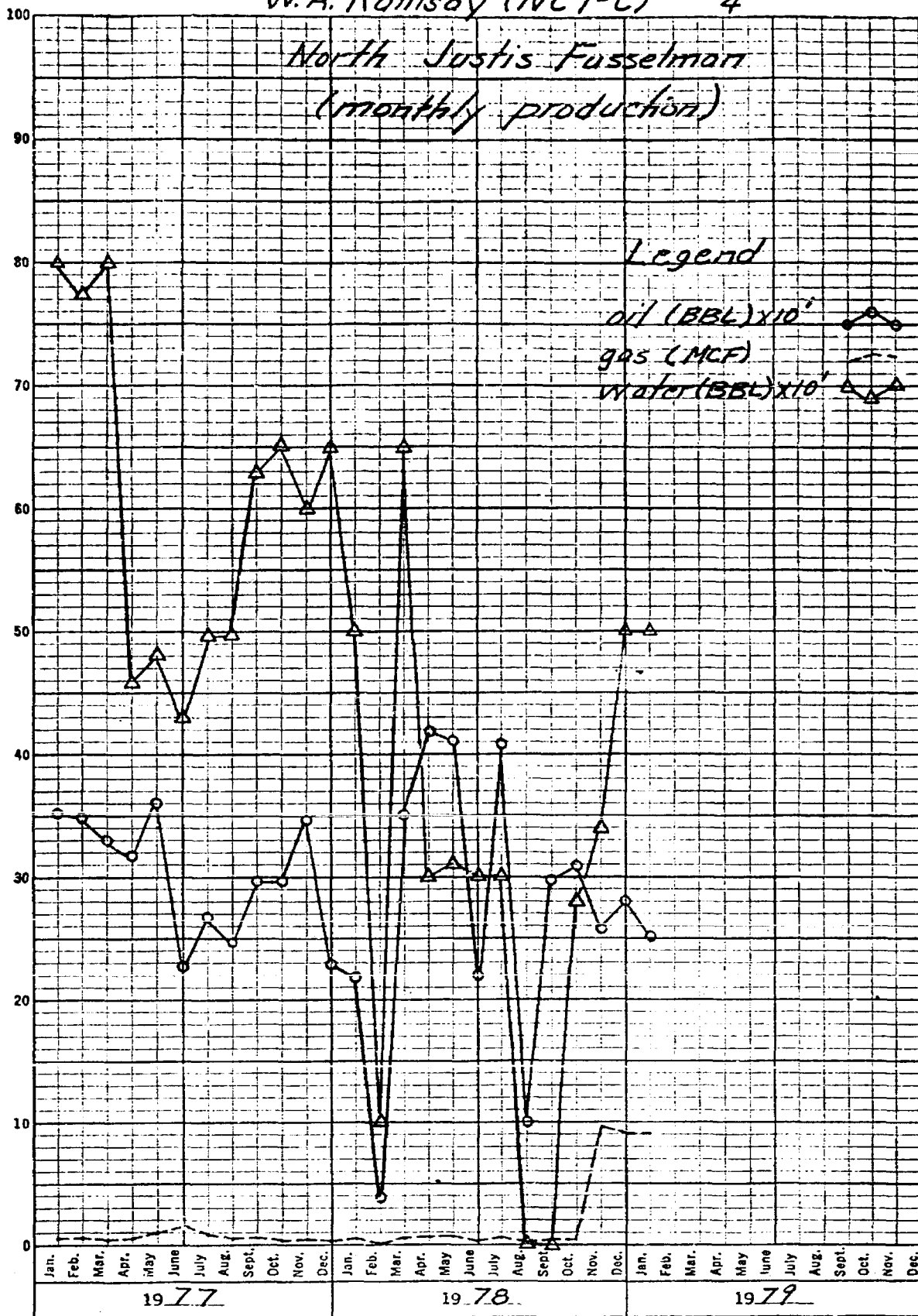
North Justis Montoya
(monthly production)



3 YEARS BY MONTHS
46 3293
MADE IN U.S.A.
KEUFFEL & ESSER CO.

W.A. Ramsay (NCT-C) # 4

North Justis Fusselman
(monthly production)



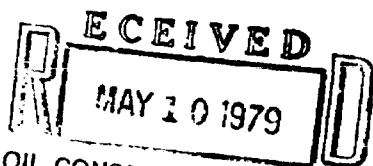
3 YEARS BY MONTHS 46 3293
X 100 DIVISIONS
MADE IN U.S.A.
KEUFFEL & ESSER CO.

OIL CONSERVATION COMMISSION
HOBBS DISTRICT

OIL CONSERVATION COMMISSION
BOX 2088
SANTA FE, NEW MEXICO

DATE May 7, 1979

RE: Proposed MC _____
Proposed DHC X _____
Proposed NSL _____
Proposed SWD _____
Proposed WFX _____
Proposed PMX _____



Gentlemen:

I have examined the application dated _____

for the Gulf Oil Corp. W. A. Ramsay (NCT-C) #4-M 36-24-37
Operator Lease and Well No. Unit, S-T-R

and my recommendations are as follows:

The total production is such that this will take a hearing----J.S.

Yours very truly,

Too much water

OFFSET OPERATORS
to W. A. Ramsey (NCT-C) Lease

Amerada Hess Corporation
P. O. Drawer 817
Seminole, Texas 79360
ATTENTION: Mr. Grant Miller

ARCO Oil and Gas Company
P. O. Box 1610
Midland, Texas 79702

National Cooperative Refinery Association
404 Lincoln Tower Building
Denver, Colorado 80203

Texaco, Inc.
P. O. Box 3109
Midland, Texas 79702
ATTENTION: Mr. Paul Davis

Getty Oil Company
P. O. Box 1231
Midland, Texas 79702
ATTENTION: Mr. Joe King

HNG Oil Company
P. O. Box 2267
Midland, Texas 79702

Parker Drilling Company
P. O. Box 1742
Midland, Texas 79702

OFFSET OPERATORS
to W. A. Ramsey (NCT-C) Lease

Amerada Hess Corporation
P. O. Drawer 817
Seminole, Texas 79360
ATTENTION: Mr. Grant Miller

ARCO Oil and Gas Company
P. O. Box 1610
Midland, Texas 79702

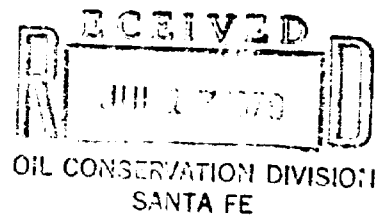
National Cooperative Refinery Association
404 Lincoln Tower Building
Denver, Colorado 80203

Texaco, Inc.
P. O. Box 3109
Midland, Texas 79702
ATTENTION: Mr. Paul Davis

Getty Oil Company
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Midland, Texas 79702
ATTENTION: Mr. Joe King

HNG Oil Company
P. O. Box 2267
Midland, Texas 79702

Parker Drilling Company
P. O. Box 1742
Midland, Texas 79702



BEFORE THE OIL CONSERVATION COMMISSION
STATE OF NEW MEXICO

IN THE MATTER OF THE APPLICATION
OF GULF OIL CORPORATION FOR APPROVAL
OF DOWNHOLE COMMINGLING, LEA COUNTY,
NEW MEXICO

Case No. 6599

ENTRY OF APPEARANCE

The undersigned, Modrall, Sperling, Roehl, Harris & Sisk,
of Albuquerque, New Mexico, hereby enter their appearance on
behalf of the applicant, Gulf Oil Corporation, with its house
counsel of Midland, Texas.

MODRALL SPERLING ROEHL HARRIS & SISK

By:

James E. Sperling
James E. Sperling, Attorneys for
Gulf Oil Corporation
P. O. Box 2168
Albuquerque, New Mexico 87103
Telephone: (505) 243-4511

CASE 6596:

Application of New Petroleum Company for completion of well in the above stated county, under all rights in the formation underlying the top of section 16, Township 16 N., Range 10 E., and Section 36 of Range 10 E., Township 16 N., Range 10 E., in Unit N of Section 16, Township 16 N., Range 10 E., as operator of the well and a change in the title to the well.

CASE 6600:

Application of New Petroleum Company for completion of well in the above stated county, under all rights in the formation underlying the top of section 16, Township 16 N., Range 10 E., and Section 36 of Range 10 E., Township 16 N., Range 10 E., in Unit N of Section 16, Township 16 N., Range 10 E., as operator of the well and a change in the title to the well.

CASE 6601:

Application of Harvey W. Yates Company for completion of well in the above stated county, under all rights in the formation underlying the top of section 16, Township 16 N., Range 10 E., and Section 36 of Range 10 E., Township 16 N., Range 10 E., in Unit N of Section 16, Township 16 N., Range 10 E., as operator of the well and a change in the title to the well.

CASE 6602:

Application of New Petroleum Company for completion of well in the above stated county, under all rights in the formation underlying the top of section 16, Township 16 N., Range 10 E., and Section 36 of Range 10 E., Township 16 N., Range 10 E., in Unit N of Section 16, Township 16 N., Range 10 E., as operator of the well and a change in the title to the well.

Dockets Nos. 29-79 and 31-79 are tentatively set for hearing on August 8 and 22, 1979. Applications for hearing must be filed at least 22 days in advance of hearing date.

DOCKET: COMMISSION HEARING - TUESDAY - JULY 24, 1979

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

- CASE 6596: Application of Harvey E. Yates Company for pool creation and special pool rules, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks the creation of a new Upper Pennsylvanian gas pool to be designated as the Southeast Indian Basin-Upper Pennsylvanian Gas Pool for its Southeast Indian Basin Well No. 1 located in Unit A of Section 23, Township 22 South, Range 23 East, and special pool rules therefor including 320-acre gas well spacing.
- CASE 6597: 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 location of its Southeast Indian Basin Well No. 2, an Upper Pennsylvanian well to be drilled 660 feet from the North and West lines of Section 24, Township 22 South, Range 23 East, with the N/2 or all of said Section 24 to be dedicated to the well, depending on the outcome of Case No. 6596.

DOCKET: EXAMINER HEARING - WEDNESDAY - JULY 25, 1979

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

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

CASE 6545: (Continued from June 27, 1979, Examiner Hearing)

In the matter of the hearing called by the Oil Conservation Division on its own motion to permit Corinne Grace, Travelers Indemnity Company, and all other interested parties to appear and show cause why the Kuklah Baby Well No. 1 located in Unit G of Section 24, Township 22 South, Range 26 East, Eddy County, New Mexico, should not be plugged and abandoned in accordance with a Division-approved plugging program.

- CASE 6598: Application of Gulf Oil Corporation for downhole commingling, Rio Arriba County, New Mexico. Applicant, in the above-styled cause, seeks approval for the downhole commingling of Otero-Gallup and Basin-Dakota production in the wellbores of its Apache Federal Wells No. 8 located in Unit C of Section 8 and No. 9 located in Unit D of Section 17, both in Township 24 North, Range 5 West.

- CASE 6599: Application of Gulf Oil Corporation for downhole commingling, Lea County, New Mexico. Applicant, in the above-styled cause, seeks approval for the downhole commingling of Fusselman and Montoya production, North Justis Field, in the wellbore of its W. A. Ramsay Well No. 4 located in Unit M of Section 36, Township 24 South, Range 37 East.

- CASE 6600: Application of Mesa Petroleum Company for compulsory pooling, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks an order pooling all mineral interests in the Morrow formation underlying the E/2 of Section 10, Township 16 South, Range 27 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. Also to be considered will be the designation of applicant as operator of the well and a charge for risk involved in drilling said well.

- CASE 6601: Application of Harvey E. Yates Company for compulsory pooling, Lea County, New Mexico. Applicant, in the above-styled cause, seeks an order pooling all mineral interests in the Wolfcamp through Mississippian formations underlying the E/2 of Section 8, Township 14 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. Also to be considered will be the designation of applicant as operator of the well and a charge for risk involved in drilling said well.

- CASE 6602: Application of Tenneco Oil Company for an unorthodox well location, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks approval for the unorthodox location of its Federal 33 C No. 2 Well 1010 feet from the North line and 1710 feet from the West line of Section 33, Township 17 South, Range 29 East, South Empire-Wolfcamp Pool, the E/2 NW/4 of said Section 33 to be dedicated to the well.

CASE 6603: (This case will be continued to the August 8 hearing.)

Application of Conoco Inc. for downhole commingling, Lea County, New Mexico. Applicant, in the above-styled cause, seeks approval for the downhole commingling of Penrose Skelly and Eumont production in the wellbore of its Hawk B-1 Well No. 12 located in Unit O of Section 8, Township 21 South, Range 37 East.

CASE 6604: Application of Cities Service Company for rescission of Division Order No. R-5921, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks the rescission of Order No. R-5921 which order provided for the compulsory pooling of all of the mineral interests in the Pennsylvanian formation underlying the S/2 of Section 8, Township 23 South, Range 28 East.

CASE 6605: Application of Estoril Producing Corporation for compulsory pooling and an unorthodox gas well location, Lea County, New Mexico. Applicant, in the above-styled cause, seeks an order pooling all mineral interests in the Morrow formation underlying the W/2 of Section 15, Township 20 South, Range 34 East, to be dedicated to a well to be drilled at an unorthodox location 660 feet from the North and West lines of said Section 15. Also to be considered will be the cost of drilling and completing said well and the allocation of the cost thereof as well as actual operating costs and charges for supervision. Also to be considered will be the designation of applicant as operator of the well and a charge for risk involved in drilling said well.

CASE 6564: (Continued and Readvertised)

Application of Herndon Oil & Gas Co. for an unorthodox oil well location, Lea County, New Mexico. Applicant, in the above-styled cause, seeks approval for the unorthodox location of its O. A. Woody Well No. 1 to be drilled 2310 feet from the North line and 330 feet from the West line of Section 35, Township 16 South, Range 38 East, Knowles-Devonian Pool.

CASE 6606: Application of Getty Oil Company for salt water disposal, Lea County, New Mexico. Applicant, in the above-styled cause, seeks authority to dispose of produced salt water in the Yates formation in the open-hole interval from 3810 feet to 4169 feet in its State "AA" Well No. 1 located in Unit I of Section 35, Township 21 South, Range 34 East.

CASE 6607: Application of Getty Oil Company for a dual completion, Lea County, New Mexico. Applicant, in the above-styled cause, seeks approval for the dual completion of its Getty 36 State Well No. 1 located in Unit F of Section 36, Township 21 South, Range 34 East, to produce oil from the Wolfcamp formation and gas from the Morrow formation through parallel strings of tubing.

CASE 6608: Application of Getty Oil Company for pool creation and special pool rules, Lea County, New Mexico. Applicant, in the above-styled cause, seeks the creation of a new Wolfcamp oil pool for its Getty 36 State Well No. 1 located in Unit F of Section 36, Township 21 South, Range 34 East, and special rules therefor, including 160-acre oil well spacing.

CASE 6609: Application of Napco Inc. for pool creation and special pool rules, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks the creation of a new Strawn oil pool for its Benson Deep Unit Well No. 1 located in Unit O of Section 33, Township 18 South, Range 30 East, and special rules therefor, including 160-acre spacing and standard well locations.

CASE 6610: Application of Koch Industries, Inc. for salt water disposal, Lea County, New Mexico. Applicant, in the above-styled cause, seeks authority to dispose of produced salt water in the Rustler formation through the perforated interval from 1190 feet to 1210 feet in its Wills "A" Well No. 7 located in Unit E of Section 35, Township 26 South, Range 37 East, Rhodes Field.

CASE 6611: Application of Cabot Corp. for salt water disposal, Lea County, New Mexico. Applicant, in the above-styled cause, seeks approval for the disposal of produced salt water in the Devonian formation through the perforated interval from 12,156 feet to 12,574 feet in its Reed Well No. 1 located in Unit H of Section 35, Township 13 South, Range 37 East, King Field.

CASE 6487: (Continued from May 23, 1979, Examiner Hearing)

Application of El Paso Natural Gas Company for approval of infill drilling, Lea County, New Mexico. Applicant, in the above-styled cause, seeks a waiver of existing well-spacing requirements and a finding that the drilling of its Shell E State Com Well No. 2 located in Unit N of Section 6, Township 21 South, Range 36 East, Eumont Gas Pool, Lea County, New Mexico, is necessary to effectively and efficiently drain that portion of the proration unit which cannot be so drained by the existing well.

CASE 6471: (Continued from May 23, 1979, Examiner Hearing)

Application of Consolidated Oil & Gas, Inc. for approval of infill drilling, San Juan County, New Mexico. Applicant, in the above-styled cause, seeks a waiver of existing well-spacing requirements and a finding that the drilling of its Freeman Well No. 1-A to be located in Unit C of Section 11, Township 31 North, Range 13 West, Basin-Dakota Pool, San Juan County, New Mexico, is necessary to effectively and efficiently drain that portion of the proration unit which cannot be so drained by the existing well.

CASE 6472: (Continued from May 23, 1979, Examiner Hearing)

Application of Consolidated Oil & Gas, Inc. for approval of infill drilling, Rio Arriba County, New Mexico. Applicant, in the above-styled cause, seeks a waiver of existing well-spacing requirements and a finding that the drilling of its Jenny Well No. 1-A to be located in Unit P of Section 13, Township 26 North, Range 4 West, Basin-Dakota Pool, Rio Arriba County, New Mexico, is necessary to effectively and efficiently drain that portion of the proration unit which cannot be so drained by the existing well.

CASE 6473: (Continued from May 23, 1979, Examiner Hearing)

Application of Consolidated Oil & Gas, Inc. for approval of infill drilling, Rio Arriba County, New Mexico. Applicant, in the above-styled cause, seeks a waiver of existing well-spacing requirements and a finding that the drilling of its McIntyre Well No. 1-A to be located in Unit K of Section 11, Township 26 North, Range 4 West, Basin-Dakota Pool, Rio Arriba County, New Mexico, is necessary to effectively and efficiently drain that portion of the proration unit which cannot be so drained by the existing well.

CASE 6474: (Continued from May 23, 1979, Examiner Hearing)

Application of Consolidated Oil & Gas, Inc. for approval of infill drilling, San Juan County, New Mexico. Applicant, in the above-styled cause, seeks a waiver of existing well-spacing requirements and a finding that the drilling of its Williams Well No. 1-A to be located in Unit C of Section 24, Township 31 North, Range 13 West, Basin-Dakota Pool, San Juan County, New Mexico, is necessary to effectively and efficiently drain that portion of the proration unit which cannot be so drained by the existing well.

CASE 6475: (Continued from May 23, 1979, Examiner Hearing)

Application of Consolidated Oil & Gas, Inc. for approval of infill drilling, San Juan County, New Mexico. Applicant, in the above-styled cause, seeks a waiver of existing well-spacing requirements and a finding that the drilling of its Montoya Well No. 1-A to be located in Unit I of Section 35, Township 32 North, Range 13 West, Basin-Dakota Pool, San Juan County, New Mexico, is necessary to effectively and efficiently drain that portion of the proration unit which cannot be so drained by the existing well.

CASE 6535: (Continued from June 13, 1979, Examiner Hearing)

Application of Torreon Oil Company for a waterflood project, Sandoval County, New Mexico. Applicant, in the above-styled cause, seeks authority to institute a waterflood project in the San Luis-Mesaverde Pool by the injection of water into the Menefee formation through two wells located in Section 21, Township 18 North, Range 3 West, Sandoval County, New Mexico.

CASE 6579: (Continued from June 27, 1979, Examiner Hearing)

Application of R. N. Hillin for an unorthodox well location and approval of infill drilling, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks a waiver of existing well spacing requirements and a finding that the drilling of a Morrow gas well at an unorthodox location 800 feet from the South line and 2000 feet from the East line of Section 34, Township 19 South, Range 28 East, is necessary to effectively and efficiently drain that portion of the E/2 of said Section 34 which cannot be so drained by the existing well.

CASE 6580: (Continued from June 27, 1979, Examiner Hearing) (This case will be continued to the August 22 hearing.)

Application of Continental Oil Company for a carbon dioxide injection project, Lea County, New Mexico. Applicant, in the above-styled cause, seeks authority to initiate a pilot carbon dioxide injection project in the Grayburg-San Andres formation in Units H and I of Section 20, Township 17 South, Range 32 East, Maljamar Pool, for tertiary recovery purposes.

CASE 6270: (Continued from July 11, 1979, Examiner Hearing)

In the matter of Case 6270 being reopened pursuant to the provisions of Order No. R-5771 which order created the South Peterson-Fusselman Pool, Roosevelt County, New Mexico, and provided for 80-acre spacing. All interested parties may appear and show cause why said pool should not be developed on 40-acre spacing units.

CASE 6590: (Continued from July 11, 1979, Examiner Hearing)

Application of Grace Petroleum Corporation for compulsory pooling and an unorthodox gas well location, Lea County, New Mexico. Applicant, in the above-styled cause, seeks an order pooling all mineral interests in the Morrow formation underlying Lots 9, 10, 15, and 16 and the SE/4 of Section 6, Township 21 South, Range 32 East, to be dedicated to a well to be drilled at an unorthodox location 4650 feet from the South line and 660 feet from the East line of said Section 6. Also to be considered will be the cost of drilling and completing said well and the allocation of the costs thereof as well as actual operating costs and charges for supervision. Also to be considered will be the designation of applicant as operator of the well and a charge for risk involved in drilling said well.

dr/

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. 6599

Order No. R-6077

APPLICATION OF GULF OIL CORPORATION

FOR DOWNHOLE COMMINGLING, LEA

COUNTY, NEW MEXICO.

ef
RFL

BY THE DIVISION:


ORDER OF THE DIVISION

This cause came on for hearing at 9 a.m. on July 25
19 79, at Santa Fe, New Mexico, before Examiner Daniel S.
Nutter.

NOW, on this August day of August, 19 79, 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, Gulf Oil Corporation, is
the owner and operator of the W. A. Ramsay Well No. 4,
located in Unit M of Section 36, Township 24 South,
Range 37 East, NMPM, Lea County, New Mexico.

(3) That the applicant seeks authority to commingle
Fusselman and Montoya production
within the wellbore of the above-described well.

(4) That from the Fusselman zone, the subject well is capable of low marginal production onl

(5) That from the Montoya ne, the subject well is capable of low marginal production onl

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

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

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

(9) That in order to allocate the commingled production to each of the commingled zones in the subject well, ⁵⁰ percent of the commingled ^{production and 50 percent of the} oil, gas production should be allocated to the Fusselman zone, and 50 percent of the commingled production to the Montoya zone.

(ALTERNATE)

(9) That in order to allocate the commingled production to each of the commingled zones in the wells, applicant should consult with the supervisor of the Hobbs district office of the Division and determine an allocation formula for each of the production zones.

IT IS THEREFORE ORDERED:

(1) That the applicant, Gulf Oil Corporation, is hereby authorized to commingle Fusselman and Montoya production within the wellbore of the W. A. Ramsay Well No. 4, located in Unit M of Section 36, Township 24 South, Range 37 East, NMPM, Lea County, New Mexico.

(2) That the applicant shall consult with the Supervisor of the Hobbs district office of the Division and determine an allocation formula for the allocation of production to each zone in each of the subject wells.

(ALTERNATE)

(2) That 50 percent of the commingled oil and 50 percent of the commingled gas production production shall be allocated to the Fusselman zone and 50 percent of the commingled production shall be allocated to the Montoya zone.

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

(4) 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.