Case No. 6599

Application

Transcripts

Small Exhibits

EXAMINER HEARING

STATE OF NEW MEXICO

IN THE MATTER OF: Application of Gulf Oil Corporation for) downhole commingling, Lea County, New) 6599

BEFORE: Daniel S. Nutter

TRANSCRIPT OF HEARING

APPEARANCES

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

Terry I. Cross, Esq. For the Applicant: The Gulf Companies P. O. Box 1150

Midland, Texas 79702

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BETHEL S. STRAWSER

Direct Examination by Mr. Cross

Cross Examination by Mr. Nutter

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Applicant Exhibit Three, Well History

Applicant Exhibit Four-A, C-116

Applicant Exhibit Four-B, C-116

Applicant Exhibit Five-A, Plot

Applicant Exhibit Five-B, Plot

Applicant Exhibit Six-A, Tabulation

Applicant Exhibit Six-B, Tabulation

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SALLY WALTON BOYD
SERTIFED SHORTHAND REPORTER
138 Place Blace (605) 411-4412
Banta Riv, New Mexico 51701

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MR. NUTTER: Call next Case Number 6599.

MR. PADILLA: Application of Gulf Oil Corporation for downhole commingling, Lea County, New Mexico.

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.

MR. CROSS: Do you consider this witness still under oath?

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:

DIRECT EXAMINATION

BY MR. CROSS:

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 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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ified now?

MR. NUTTER: The witness is qualified.

a. Would you please state what Gulf is seeking in this application?

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

Would you please explain your Exhibit Number One?

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

Do you have an exhibit showing the downhole particulars of this well?

Yes. Exhibit Number Two is a diagrammatic sketch showing the details of the completion and the downhole equipment both presently in use and proposed for use after authority to commingle has been granted.

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

> Well history as per Exhibit --MR. NUTTER: And you're reading from Ex-

ALTON BOYD MINAND REPORTER DOE (606) 471-2462

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hibit Three, right?

A As per Exhibit Three, yes.

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

A. Okay. The well was spudded in 1962.

Total depth is 8155 feet with 7-inch production casing at that depth.

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

Waddell has since been temporarily abandoned and we are now dually completed between the Montoya and the Fusselman.

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

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

The most recent C-116s are Exhibits

Number Four-A and Four-B.

Q. Do you have exhibits setting out the production performance of this well?

SALLY WALTON I CENTIFIED SHORTHAND RE 1010 Place Blance (605) & Santa Fe, New Maxico

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

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

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

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

A Yes. Under Order Number R-4895, dated

October 29th, 1974, Texaco was granted authority to downhole commingle production from the two subject pools, together with the North Justis-Ellenburger Pool in their

G. L. Erwin "B" Federal NCT-2 Well No. 5. This is located
in Unit P of Section 35, Township 24 South, Range 37 East.

This well offsets the Gulf W. A. Ramsey

NCT-C Well No. 4 to the west, and I have marked it in yellow

on your Exhibit Number One plat.

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

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

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

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

Q Are you currently surface commingling

Montoya and Fusselman production on the subject lease?

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

We have seen no evidence of fluid incompatibility to date and we do not anticipate any future problems.

Q Will the value of the production from this well be adversely affected as a result of downhole commingling?

A. No. The oil and gas pricing classifications will not be changed as a result of proposed downhole commingling and the production is already surface commingled.

We do not anticipate any change in value of production.

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

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

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

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

A. We will recommend separation of the zones as deemed necessary for efficient secondary recovery operations.

Q. What do you anticipate regarding the production capabilities of this well under commingled conditions?

A. We do expect to slightly increase the efficiency of artificial lift operations as a result of down-

SALLY WALTON BOYD CERTIFIED SHONTHAND REPORTER 39319 Flace Silving (6+8) 471-448 BREATA Fig. New Maxico 2719:

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

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

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

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

A Yes, they were.

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

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

MR. CROSS: I have no further questions.

CROSS EXAMINATION

BY MR. NUTTER:

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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 anomolies on these decline curves?

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

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

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

With Gulf?

With any oil company.

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

SALLY WALTON BOYD ENTIFIES SHORTHAND REPORTER SEPRIN BLACK (665) 471-2462 Seats Fe, New Mexico 87161

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

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

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

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

Q. And although it came in with a potential of 166 barrels per day in the Fusselman, the first production figures for the average was only 15 barrels per day.

A. Yes, sir.

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

A. To my knowledge.

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

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

Q. Okay, which is the same as oil.

SALLY WALTON BOYD	80 20 Plaza Blanca (808) 471-2462 Sania Fe, New Mexico 877 61	

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

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

A. Yes.

Q Okay.

MR. NUTTER: Are there any further questions of the witness? She may be excused.

Do you have anything further, Mr. Cross?

MR. CROSS: No, sir.

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

We'll take the case under advisement.

(Hearing concluded.)

REPORTER'S CERTIFICATE

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

I do hereby certify that the foregoing is a constain sectors of the proceedings in the constant aparing of Case No. 6599. , Examiner Facion Lividon

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STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION
State Land Office Building
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25 July 1979

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For the Applicant:	Terry I. Cross, Esq.

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

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918 Plaza Blanca (1915) 471-5445
Santa JPs, New Motion 31591

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

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A Yes.

Q Okay.

MR. NUTTER: Are there any further questions of the witness? She may be excused.

Do you have anything further, Mr. Cross?

MR. CROSS: No, sir.

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

We'll take the case under advisement.

(Hearing concluded.)

REPORTER'S CERTIFICATE

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

Sally W. Boyd, C.S.R.

I do her corner that the foregoing 19 of the proceedings aring of Case No. 65 Conservation Division , Examiner

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Other

STATE OF NEW MEXICO ENERGY AND MINERALS DEPARTMENT OIL CONSERVATION DIVISION

August 17, 1979

POST OFFICE BOX 2008 STATE LAND OFFICE BUILDING SANTA FE, NEW MEXICO 87501 (505) 827-2434

	Re: CASE NO. 6599
Mr. Terry Cross, Attorney Gulf Oil Corporation	ORDER NO. R-6077
Box 1150	
Midland, Texas 79702	Applicant:
	Gulf Oil Corporation
Dear Sir:	. •
Enclosed herewith are two co Division order recently ente	
JOE D. RAMEY Director	•
JDR/fd	
Copy of order also sent to:	•
Hobbs OCD x Artesia OCD x Aztec OCD	

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 Pusselman 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 correlative 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.
- (3) 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 herein-

STATE OF NEW MEXICO
OIL CONSERVATION DIVISION

JOE D. RAMEY

Director

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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 1.0. / CASE NO. 6599

Well proposed for downhole commingling

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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 _ PROPOSED — PRESENT -KDB Elev. 3149' GL Elev. 3138' -13-3/8", 48 lb. csg. @. 1000', cmt. circ. _Top of cement @ 2295^t. 9-5/8", 36 lb. csg. @ 3480' w/350 sx. cmt. -Top of cement @ 3675' DV Tool @ 6310'--Top of cement @ 6440°. 2-3/8" Tubing -Parallel Anchor Fusselman Perfs. 69881-69961 2-3/8" Tubing .Baker Model "D" Packer @ 7055' Montoya Perfs. 7104"-7114" -CIBP @ 7925' w/8' cmt--Waddell Perfs. 8110'-8114'-PBTD 8123' 7-5/8" & 7" csg. @ 8155' TD 8155

BEFORE EXAMINER MUTTER
OIL COLLEGEMENT NO. 2
CASE NO. 6599

EXHIBIT NO. 2 CASE NO. 4599 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% HGL. 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.

Gulf Mo. 3

CASENO 6599

CASE NO. U599
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.

Gulf Oil Corporation	•	•	1,00	Jus	stis M	iontoya N	orth			Con	County Lea					
Bott 670, Hobbs, NH 88	Bott 670, Hobbs, NH 88240 TEST - (X) Scheduled A Completion										Spe	::":				
LEASE NAME	WELL	1	LOC	KOITA		DATEO	F 3	CHOKE	TEG.	DALLY ALLOW-	LENGTA			URING		CAS - CIL
LEASE NAME	ΝО.	U	5	٣	R	TEST	1	SIZE	PRESS.	ASUE	TEST	WATER DOLS.	01L	01L 55L&	GAS M.C.F.	CU.FT/83
A. Ramsay (NCT-C)	į,	М	36	24	37	4-7-78	P	2" 110	30	10	24	90	39.1	12	TSTX	-
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No well will be assigned an allowable greater than the amount of oil produced on the official test.

During goods 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.

Can reliance must be reported in MCF measured at a pressure base of 15.025 polo and a temperature of 60° F. Specific gravity base will 2 a 0.60.

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

Her critical and one copy of this report to the district office of the New Mexico Dr. Conservation Commission in accordance with Rida ett von appropriete gross exten-

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

Gulf Cil Corporation			Pec	Just	is Fu	issolnan	Mort	'n		Co	I	ea					
Box 670, Hobbs, NW 88240								E 07 T = (X)	Seh	hoduled []]		Comb	iriian []	Sac	sial []	
LEASE NAME	WELL	٠.	Loc	ATION		DATIO	7 3	снока	TSG. PRESS.	SA:LY ALLOW-	-				TEST	GAS - CIL RATIO	
# # 100 # 100 W # 1	NO.	Ü	S	7	R	TEST	, , , , , , , , , , , , , , , , , , ,	SIZE	PRESS.	ABLE	TCST	3325.	OIL	01L 55L&	H.C.F.	בפנדדופם_	
A. Ramsay (NOT-C)	1.	M	36	24	37	4-8-78	1	2" 40	30	14	24	20	39.0	10	TSTM	_	
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No well will be assigned on allowable greater than the amount of oil produced on the official cost.

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Gas volumes must be reported in MGB measured at a presence base of 15,625 polic and a temperature of 60° Bs Specific gravity base be 0.60.

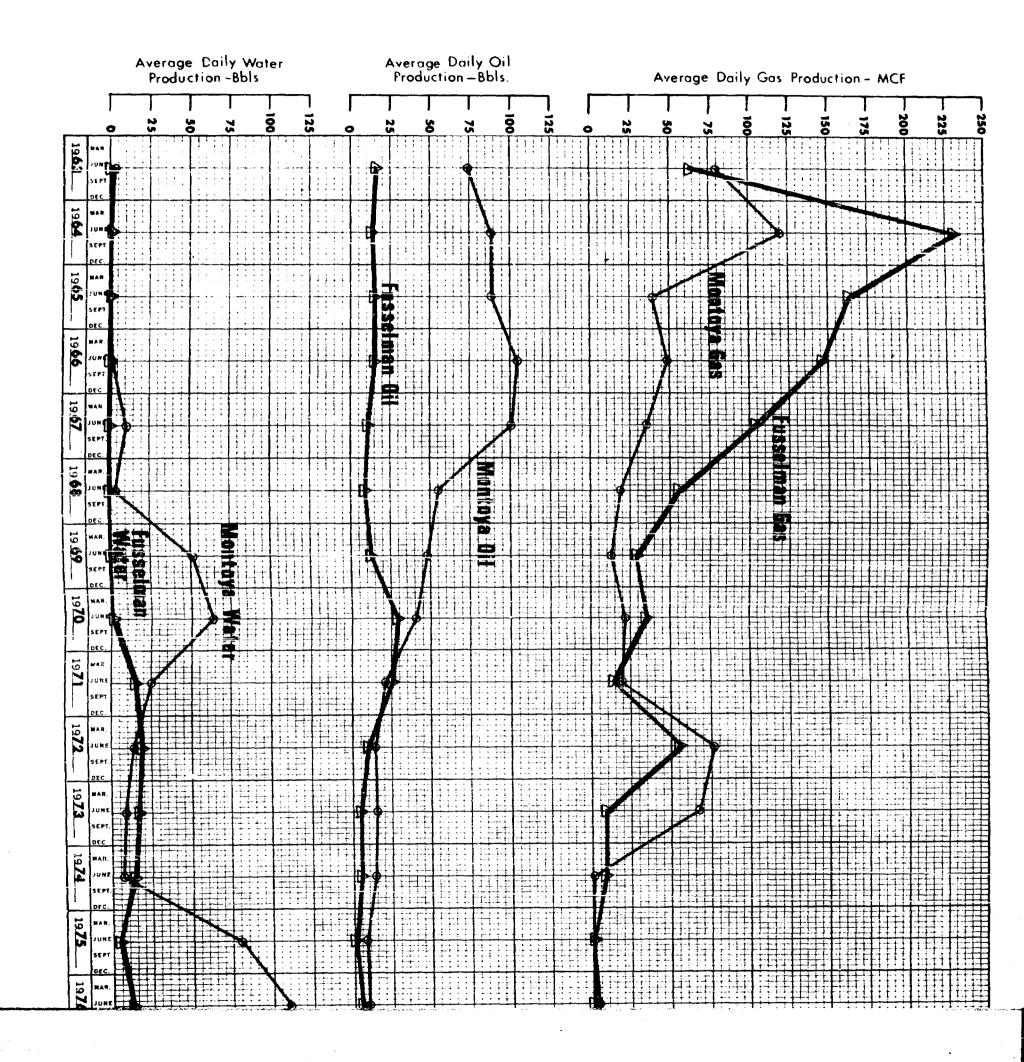
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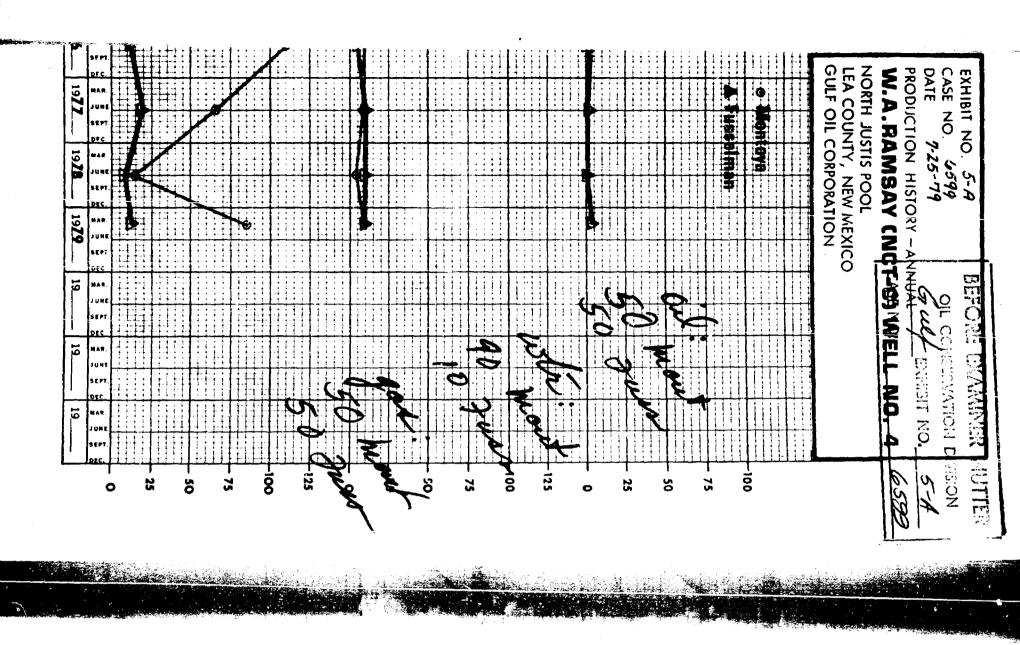
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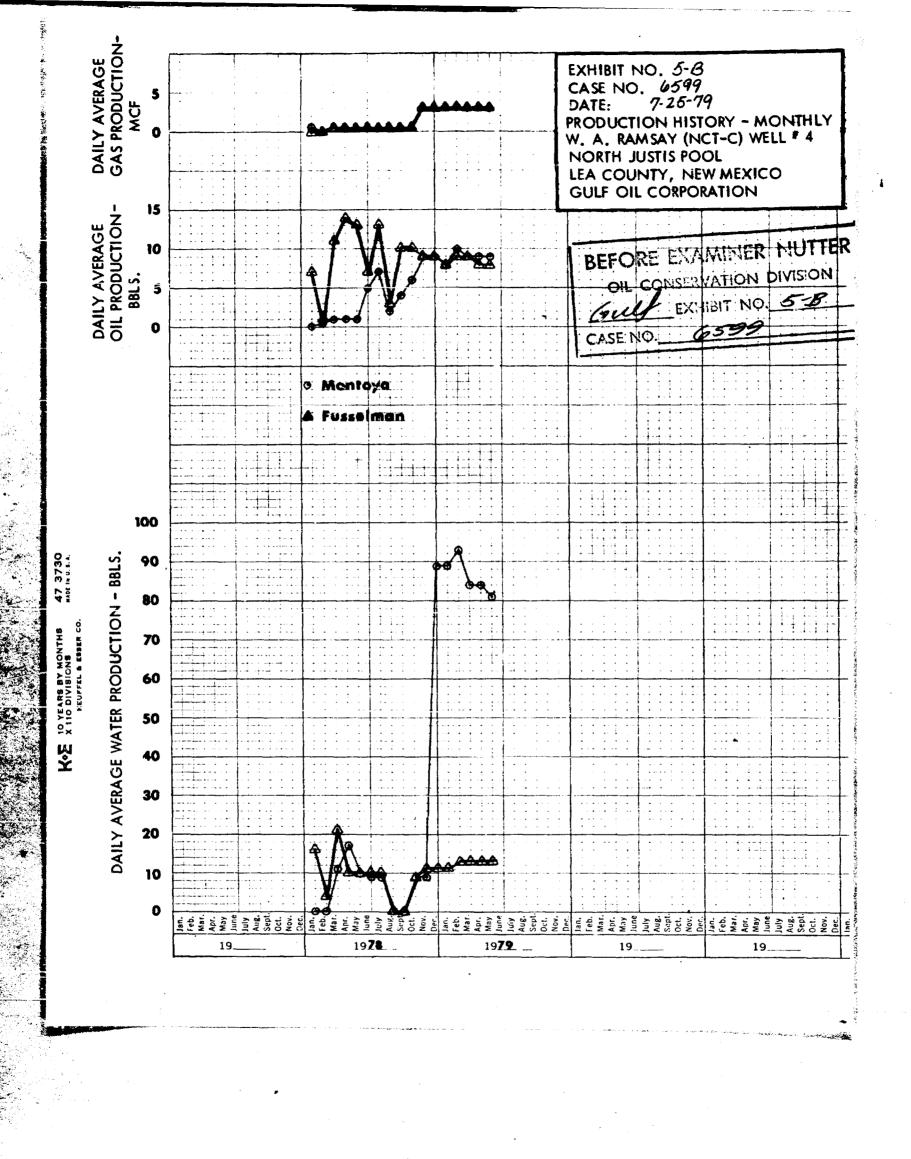
I hereby certify that the above information is true and complete to the best of my knowledge and belief.

northailmach

Well Tester







BEFORE ENAMER MUTTER
OIL CONTENT MATTER DIVISION
GULF ELECTION 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

		OTT (NRIC)	DAILY AVERAGE OIL (BOPD)	GAS (MCF)	DAILY AVERAGE GAS (MCFPD)	WATER (BBLS)	DAILY AVERAGE WATER (BWPD)
		OIL (BBLS)	OIL (BOID)	GRID (LIGITY			
- 0 (0		6,007	16	23,377	64		
1953			14	84,734	232		yan esh 195-
1964		5,164	16	60,024	164		~ ~ =
1965		6,009	16	53,516	147		
1966		5,730	11	37,647	103	<u>-</u>	
1967		4,165	9	20,440	56	58	TSTM
1968		3,182	12	10,963	30	208	TSTM
1969		4,340	29	13,321	36	435	1
1970		10,556	21	5,058	14	5,330	15
1971		7,747	12	20,516	- 56	6,930	19
1972		4,480		3,803	10	6,195	17
1973		1,941	5	3,068	8	4,950	14
1974		1,873	5	315	i	1,600	4
1975		523	1 5	12	TSTM	4,400	12
1976		1,680	5	12	101.1	•	
1977			• •	1.	TSTM	800	26
	JAN	351	11	4	TSTM	775	28
	FEB	349	12	4 3	TSTM	800	26
	MAR	330	11		TSTM	459	26 15
	APR	318	11	4	TSTM	480	15
	YAM	360	12	10 15	TSTM	430	14
	JUN	227	8	8	TSTM	496	16
	JUL	266	9		TSTM	496	16
	AUG	247	8	4	TSTM	630	21
	SEPT	298	10	4 3	TSTM	651	21
•	OCT	298	10	3	TSTM	600	20
	nov	348	12	2	TSTM	650	21
-	DEC	229	7	64	TSTM	7,267	20
AN	NUAL	3,621	10	04	10111	- .	:

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

	OIL (BBLS)	DAILY AVERAGE OIL (BOPD)	GAS (MCF)	DAILY AVERAGE GAS (MCFPD)	WATER (BBLS)	DAILY AVERAGE WATER (BWPD)
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		9	451	3	1,902	13

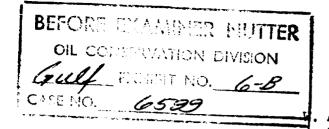


EXHIBIT NO. 6-8

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 (EWPD)
1963		26,847	74	29,352	80	· 56 5	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		ay as	٠ يو يه يه په			
ANN	TAU	3,349	9	479	1	24,040	66

EXHIBIT NO. 6-8

CASE NO. 6599

DATE: 7-25-79

PRODUCTION HISTORY

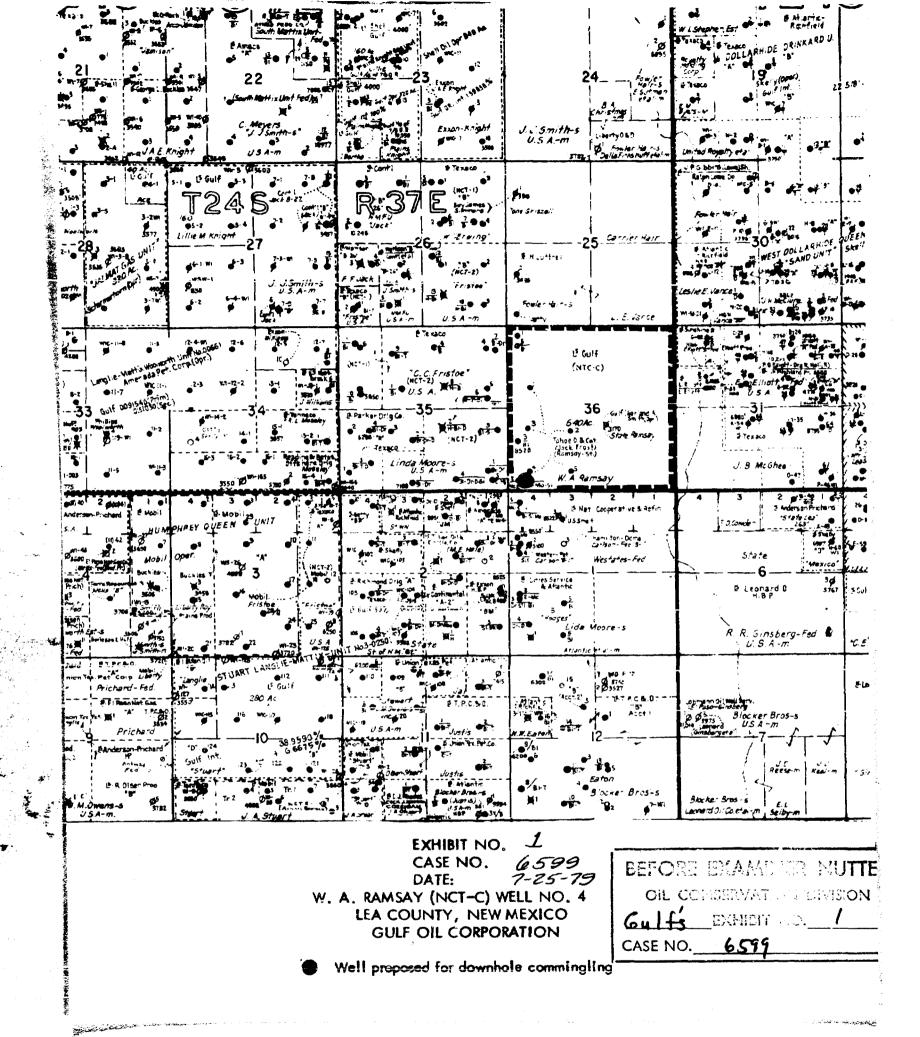
W. A. RAMSAY (NCT-C) WELL NO. 4

NORTH JUSTIS-MONTOYA POOL

GULF OIL CORPORATION

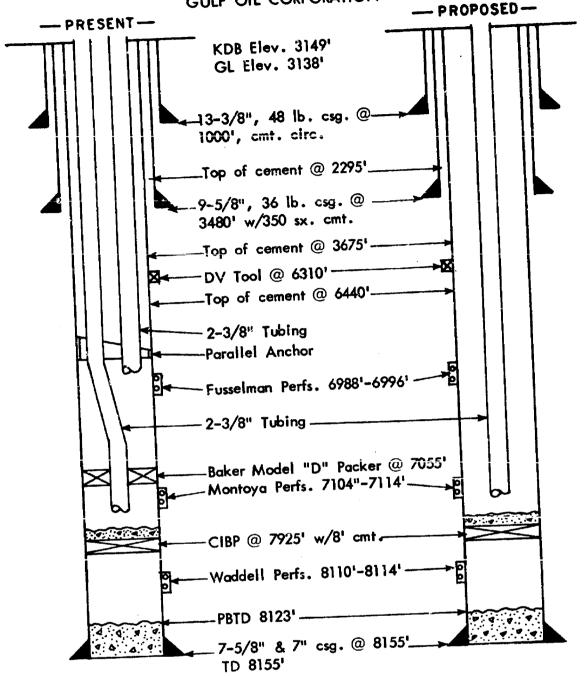
PAGE TWO

		OIL (BBLS)	DAILY AVERAGE OIL (BOPD)	CAS (MCF)	DAILY AVERAGE GAS (MCFPD)	WATER (BBLS)	DAILY AVERAGE WATER (BWPD)
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
ANNUA	L	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		90	3	2,604	84
	APR	280	9 9	90	3	2,520	84
	MAY	278	9	90	3	2,520	81
ANNUAL	TO DATE		9	449	3	12,989	86



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



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EXHIBIT NO. 2 CASE NO. 4599 DATE 7-25-79 EXHIBIT NO. 3

CASE NO. 6599

DATE: 7-25-75

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.

64/fs

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.

County iraal Gulf Oil Corporation Lea Justis Montoya North Box 670, Hobbs, NW 88240 TEST - (X) Schotoled [K Completion [45467*A* 0*f* 7657 PROD. DURING TEST CAS - CIL LOCATION DALLY WELL DATEOF CHOKE TSG. ALLOW-RATIO LEASE NAME GRAV. 015 CAS WATER NO. TEST SIZE Ų こじ,デエノミミニ S ٣ R ASLE 43UA3 0345. 011 3565 M.C.F. P 2" WO 10 90 TSTM 36 24 37 4-7-78 30 24 12 A. Ramsay (NCT-C) M 39.1 £()

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

During gasedi ratio test, each well shall be produced at a rate not exceeding the top unit allowable for the pool in which well is laceted by more than 25 percent. Operator is encouraged to take advantage of this 25 percent toperance in order that well can be assigned uncreased 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 3.60.

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

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

(Dimaiare)

Woll Tester

GAS-OIL RATIO TESTS

Justis Pusselman Morth Gulf Cil Corporation Lea TYPE OF Box 670, Hobbs, NM 88240 Completion [Special [__] Schoduled [[]] ALLOV- TEST PROD. DURING TEST GAS - CIL LOCATION TSG. WELL DATIOF CHOKE LEASE NAME CITAR ALLOY-WATER GRAV. CXS NO. PRESS ABLE 3-31.5. こひ.アイノヨヨニ PCVAS CIL DOL S. M.C.7. A. Ramsay (NOT-C) M 4-8-78 2 2" WO 30 14 24 20 39.0 10 TSTM 36 24 37 1; 3)

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

During essent this test, each well about the produce that a rate not cheeding the continuant for the pool in a state well is costed by more than 1 to that. Operator is concourage to take advantage of this 25 percent tolerative in order that well can be assigned creased allowables when address the the Commission.

Gas volumes must be required to MCF measured at a pressive base of 15,025 path and a temperature of 60° F. Specific gravity base if he 6,60.

Report casing pressure in Hew of tradition pressure for a local to maduling through availage

The second of the copy of this expert to the district of the place places of Conservation Demonstran in accordance with a 35% are apply to the poor falce.

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

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Well Tester

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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

		DAILY AVERAGE		DAILY AVERAGE		DAILY AVERAGE
	OIL (BBLS)	OIL (BOPD)	GAS (MCF)	GAS (MCFPD)	WATER (BBLS)	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	•					
	AN 351	11	4	TSTM	800	26
	EB 349	12	4	TSTM	775	28
M	AR 330	11	3	TSTM	800	26
	PR 318	11	4	TSTM	459	15
	AY 360	12	10	TSTM	480	15
J	UN 227	8	15	TSTM	430	14
	UL 266	9	8	TSTM	496	16
A	UG 247	8	4	TSTM	496	16
S	EPT 298	10	4	TSTM	630	21
	CT 298	10	3	TSTM	651	21
	ov 348	12	3	TSTM	600	20
D	EC229	_7_	2	TSTM_	<u>650</u>	21_
ANNUA		$\frac{7}{10}$	64	TSTM	7,267	20

		W. A. RAMSAY NORTH JUST GULF O	. <u>(6.59</u> 7-25- CTION HISTOR	Y L NO. 4 POOL		
	OIL (BBLS)	DAILY AVERAGE OIL (BOPD)	GAS (MCF)	DAILY AVERAGE GAS (MCFPD)	WATER (BBLS)	DAILY AVERAGE WATER (BWFD)
JAN FEB MAR APR MAY JUN JUL AUG SEPT OCT NOV DEC ANNUAL	216 38 351 419 411 220 407 100 297 309 256 280 3,304	7 1 11 14 13 7 13 3 10 10 9 9	3 - 5 6 7 2 5 1 3 2 94 95	TSTM TSTM TSTM TSTM TSTM TSTM TSTM TSTM	500 100 650 300 310 300 300 280 340 355 3,455	16 4 21 10 10 10 10 10 10 11 11
1979 JAN FEB MAR APR <u>MAY</u> ANNUAL TO	254 279 249 <u>249</u>	8 9 9 8 <u>8</u>	90 89 90 91 91 451	3 3 3 3 3	355 364 403 390 390 1,902	11 13 13 13 13 13

OIL COURT DATE OF BUTTER

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EXHIBIT NO. 6-8

CASE NO. 6599

DATE: 7-25-79

PRODUCTION HISTORY

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	ī	29,465	81
1976		3,518	10	1,369	4	40,600	111
1977				-,	•	10,000	***
	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		
<u> </u>	DEC						
AN	NUAL	3,349	9	479	1	24-040	66

CASE NO. 6599

DATE: 7-25-79

PRODUCTION HISTORY

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

		077 (D77 0)	DAILY AVERAGE		DAILY AVERAGE		DAILY AVERAGE		
		OIL (BBLS)	OIL (BOPD)	GAS (MCF)	GAS (MCFPD)	WATER (BBLS)	WATER (BWPD)		
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		
ANNU	AL	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		
ANNUA			9	449	3	12.989	86		

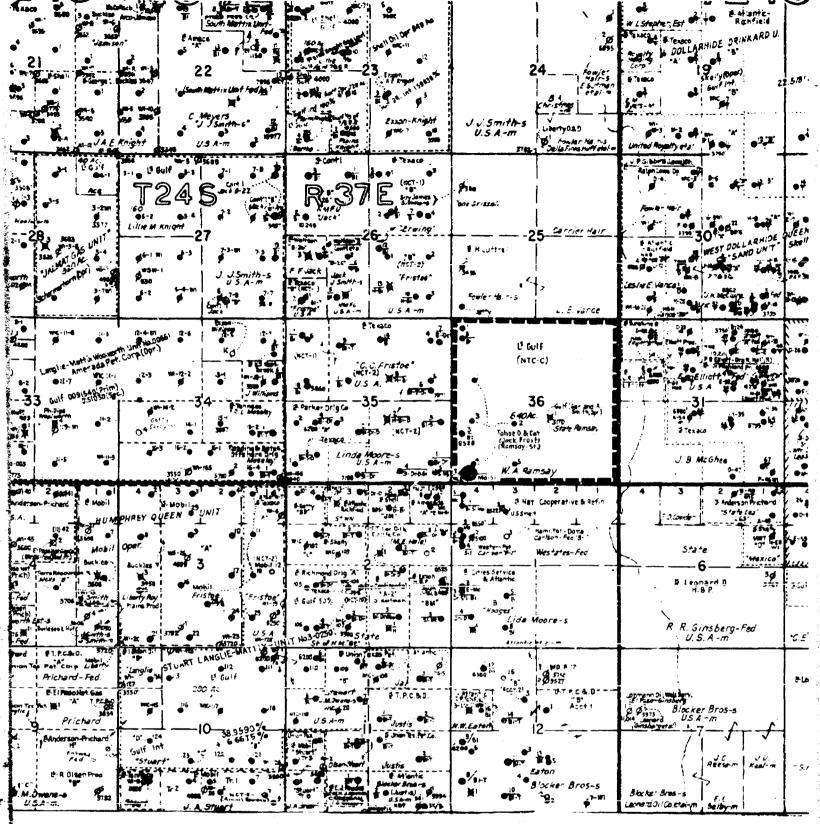


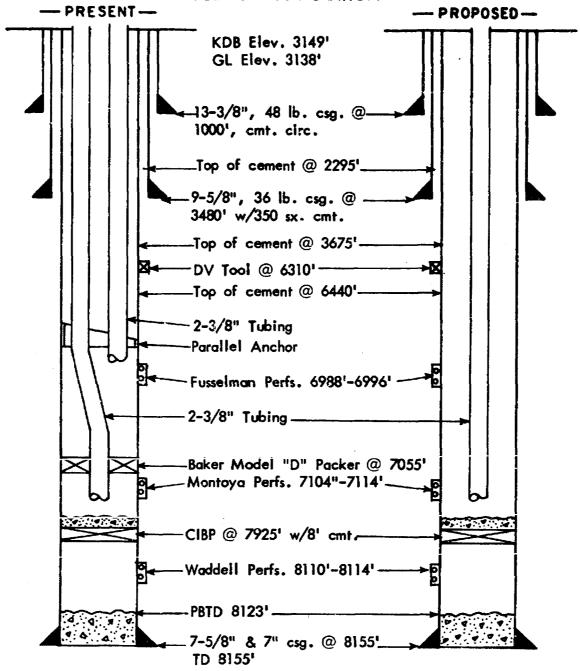
EXHIBIT NO. 1
CASE NO. 6599
DATE: 7-25-79
W. A. RAMSAY (NCT-C) WELL NO. 4
LEA COUNTY, NEW MEXICO
GULF OIL CORPORATION

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

641fc EXHIBIT NO. 2

CASE NO. 6599

EXHIBIT NO. 2 CASE NO. 6599 DATE 7-25-79 EXHIBIT NO. 3

CASE NO. 4599

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.

OR CASE 100 AS 199

EXHIBIT NO. 3

CASE NO. 4599

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 OF CONSERVATION COMMISSION GAS-OIL RATIO TESTS

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Gulf Oil Corporation			11.00		tis M	ontoya N	orth		· · · · · · · · · · · · · · · · · · ·	Cov	πιγ	Lea .				
Box 670, Hobbs, NM 882	21,0							E OF (- (X)	Sek	ceoles A		Comp.				
	WELL	LL . LOCATION		DATEO	= 5	CHOKE	TEG.	DAILY	Y LEHETA		PROD. DURING TEST		CAS - C:L			
LEASE NAME	хο.	ט	s	٣	R	7557	37.61	SIZE	PRESS.	A 1 (177)	TCST CAVCA	WATER DJLS.	GRAV.	95F2	CAS M.C.F.	RATIO CU.FT/BBL
A. Ramsay (NCT-C)	l _k	М	36	24	37	4-7-78	P	2" 10	30	10	24	90	39.1	12	TSTM	-
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No well will be application ellowable greater than the amount of oil produced on the official test.

During eased 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 pala and a temperature of 60° F. Specific gravity base will be 3.60.

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

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

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Well Tester

Gulf Cil Corporation Justis Fusco								:h			Cos	, I	ea				
Box 670, Hobbs, N.M. 88	240			•			TES		0F - (X)	Sch	ceuted 📆	1	Conin	iciien []	Spe	
•	WELL	٠.	LOCATION .		DATIOF	F B CHOKE	TSG. DAIL	SALLY LENGTA					GAS - C:L				
LEASE NAME	χο.	Ü	s	7-	R	TEST			SIZE PRES	P,RESS.	WELCONG	TCST	WATER DULS.	GRAV. OIL	85F2 01F	CAS M.C.F.	RATIO CUIFT/BBL
A. Ramsay (NCT-C)	<i>l</i> ;	M	36	24	37	4-8-73	-		211 110	30	34	24;	20	39.C	10	TSTM	-
SERORE ELLANGUEZ MUTTER OIL CONSERVATION ENVEION CASE NO. 6599 CASE NO. 6599																	
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No well will be assigned an allowable greater than the amount of oil produced on the official cast,

During essent for a test, each web shall be produced at a rate not obsecuting the only who adherent for the pool to which well is collect by more than 1 to be contact to incouraged to take advantage of this 25 percent falcounts in order that well can be assigned precise allowables when address the Commission.

Cas volumes must be required in MOP measured at a presence base of 15,615 path and a temperature of 60° %. Specific gravity base

Report coating pressure in them of tubble presents, from the " moduling through dealing

And the copy of this expect to the district of the piece blockies Oil Conservation removation in accordance with the piece files.

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

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mactam.

Hell Tester

Oil Co. D. D. D. Styllon 641fs - M. J. Ba. 6A 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

6599

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

	OIL (BBLS)	DAILY AVERAGE OIL (BOPD)	GAS (MCF)	DAILY AVERAGE GAS (MCFPD)	WATER (BBLS)	DAILY AVERAGE WATER (EWPD)		
1978								
JAN	216	7	3	TSTM	500	16		
FEB	38	î	-		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			
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	<u>13</u>		
ANNUAL TO I	DATE 1.284	9	451	3	1,902	13		

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
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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
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1974		5,294	15	767	2	2,390	7 .
1975		3,308	9	359	1	29,465	81
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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	५ं ५
•	NOV			408	14		
_	DEC				, min		
AN	NUAL	3,349	9	479	1	24,040	66

EXHIBIT NO. 4-B
CASE NO. 1599
DATE: 7-25-79
PRODUCTION HISTORY
W. A. RAMSAY (NCT-C) WELL NO. 4
NORTH JUSTIS-MONTOYA POOL
GULF OIL CORPORATION
PAGE TWO

	OIL (BBLS)	DAILY AVERAGE OIL (BOPD)	GAS (MCF)	DAILY AVERAGE GAS (MCFPD)	WATER (BBLS)	DAILY AVERAGE WATER (BWPD)
1978						
JAN				en en		
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	•					e e e e e e e e e e e e e e e e e e e
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 DAT		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

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 Midiand, Texas 79702

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

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

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

Too much wto in Om.

Cult Oil Exploration and Production Company

April 30, 1979

R. C. Anderson PRODUCTION MANAGER, HOBBS AREA

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:

OIL CONSERVATION DIVISION

SANTA FE
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,

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

R. C. ANDERSON

R. C. ANDERSON

Montaga 12 Bo

Bathorn of 7/14 may prod = 50 BOPD

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

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



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 changed 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

NEW MEXICO OIL CONSERVATION COMMISSION GAS-OIL RATIO TESTS

C-110 Revised 1-1-65

Gulf Oil Corporation			1.00		tis M	ontoya N				Co	inly	Lea				
Box 670, Hobbs, NM 88		TYPE OF TEST - (X) S			esuled A	.•	Completion [Sported						
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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.

Cas 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. . .

Medicalization one copy of this report to the district office of the New Mexico Oil Conservation Commission in accordance with Rule 211 and appropriate plantables.

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

325Hallmarks

Well Tester

(Tide)

June 13

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Gas volumes must be reported in MCF measured at a pressure base of 15.025 pain and a temperature of 60° 2's Specific gravity base will be 0.60.

Report raising pressure in flew of tubing pressure for an early readuling through cosing.

Rule 363 and approved published to the district of the first flowing Oil Conservation Community in accordance with

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

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Well Tester

June 13. 1000

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Gulf Oil Exploration and Production Company

R. C. Anderson
PRODUCTION NANAGER, MOSSS AREA

MAY - 3 '379 Re: W. A. OIL CONSERVATION DIVISION Sect

P. O. Box **67**0 Hobbs, NM **66**240

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

SANTA FE
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. Ouderson

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. 0. Box 3109
Midland, TX 79701

Parker Drilling Company P. O. Box 1742 Midland, TX 79/01



A DIVISION OF GULF OIL CORPORATION

WELL DATA

(1) Operator: Gulf Oil Corporation

P. O. Box 670 Hobbs, NM 88240 OIL CONSCRYATION DIVISION

SANTA FE

(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.

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- (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 PG-72. No evidence of fluid incompatibility has been experienced to date and no future problems are anticipated.
- (8) Value of Commingled Production: No changed 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

NEW MEXICO OIL CONSERVATION COMMISSION GAS-CIL RATIO TESTS

C-116 Timeland 1-1-65

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No well will be assigned an allowable greater than the amount of oil produced on the efficial 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 ellewables when authorized by the Commission.

Gas votimes must be reported in MCF measured at a pressure base of 15,025 pola 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,

Most estimat and one copy of this report to the district office of the New Mexico dis Conservation Commission in accordance with Rule 121 and appropriate 2004 release

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

7/DHallmante

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LL Tester

(Tide)

NEW MEXICO OIL CONSERVATION COMMISSION . GAS-OIL RATIO TESTS

C-116 Revierd 1-1-65

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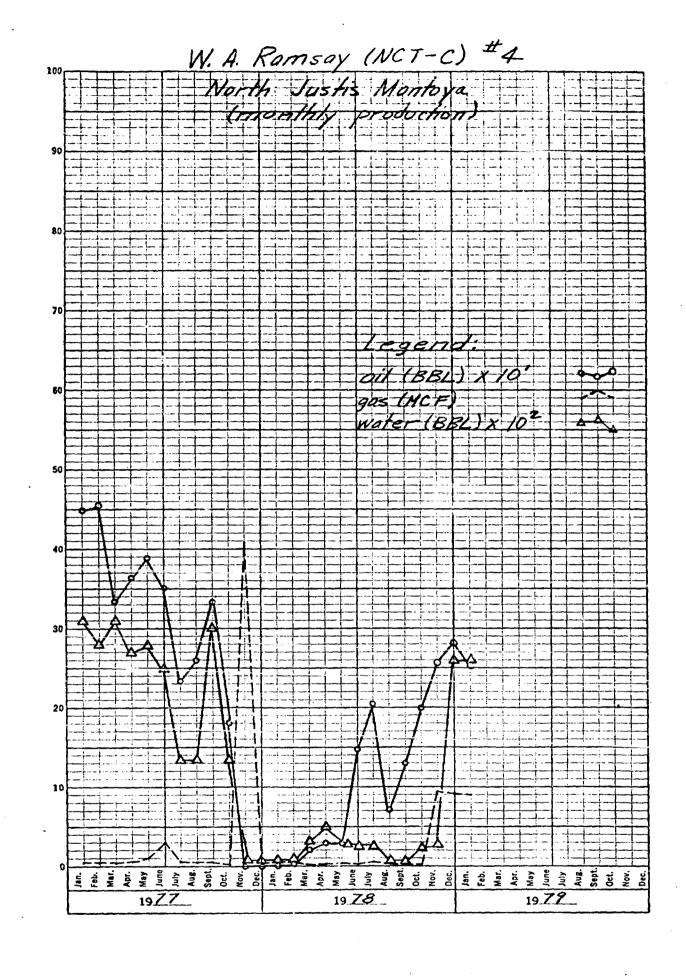
Gas volumes must be reported in MCF measured at a preserve base of 15,025 pain and a temperature of GG* 7. Specific gravity base will be 0.60.

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Well Tester

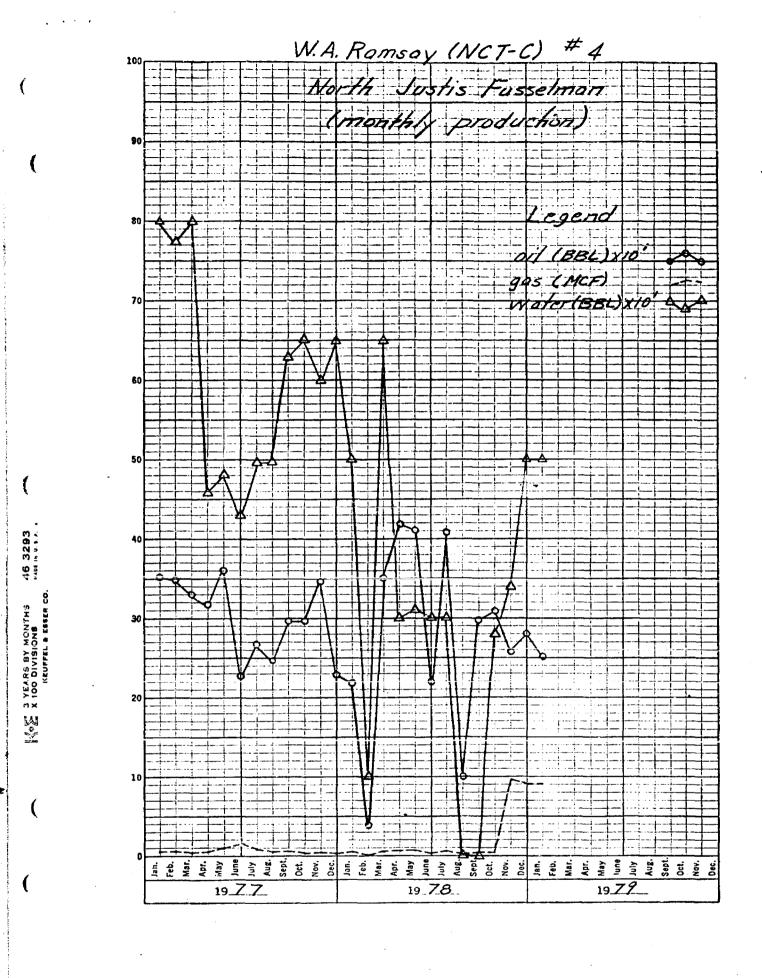
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OIL CONSERVATION COMMISSION HOBBS DISTRICT

OIL CONSERVATION COMMISSION	DATE	May 7, 1979
BOX 2088 SANTA FE, NEW MEXICO	RE:	Proposed MC Proposed DHC X Proposed NSL Proposed SWD Proposed WFX Proposed PMX
Gentlemen: OIL CONSERVATION DIVISION I have examined the applying from dates.		
for the Gulf Oil Corp. W. A. Ramsay (NCT-C)	#4-M	36-24-37
and my recommendations are as follows: The total production is such that this will tak	ke a hear	ingJ.S.
	Your	s very truly,
Too much water (my feeten

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

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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



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

 $\mathbf{v} \colon \mathcal{V}$

James E. Sperling, Attorneys to Gulf Oil Corporation

D. Box 2168

Albuquerque, New Mexico 87103 Telephone: (505) 243-4511

were resource with The state of the s The section THE THE TANK A MAN TO SELECT THE PARTY OF TH THE PRICE IS NOT COME THE THEOREM OF MINES OF THE PARTY O CASE 6600: Application of New Polytoleum troupout the companion of formation underlying the best to enterpolyton in the above at the best to the application underlying the best to the the thin the application as well to be drilled at a standard forestion the drilling and completing and hard the the attention of the wall and a charge for the line of the line of the line of the wall and a charge for the line of t CASE 6601: Application of Harvay E. Value humpany for computers.

Applicant, in the shows advised beautiful and all indicated through Mississippine formations underlying the first to be dedicated to a wall on the delified at a material to be the cost of Arilling and completing and a little at a material operating costs and completing and a little of applicant as operating the above the state of applicant as operating in the above the state of applicant as operating in the above the state of the above the state of the above the state of the above the state of the above the state of the above the state of the above the state of the above the state of the above the state of the above the state of the above the state of the state of the above the state of the state Application of Townson, the trought for an analysis of the second of the

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.

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 No. 28-79

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.

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.

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 17:0 feet from the West line of Section 33, Town
Bhip 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 5604: 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 0:1 & 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.

- 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 0il 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.
- Application of Getty 0il 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 Napeco 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 0 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.
- 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, Town-ship 21 South, Range 36 Fast, 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 & Cas, 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 Nexico, 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 Correon 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 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 sidered will be the designation of applicant as operator of the well and a charge for risk involved in drilling said well.

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-607	7
APPLICATION OF GULF OIL CORPORAT	TION		
FOR DOWNHOLE COMMINGLING, LEA	·		
COUNTY, NEW MEXICO.			Ne
ORDER OF THE	DIVISION		
BY THE DIVISION:			
This cause came on for hear:	ing at 9 a.r	n. on Ju	ly 25
19 79 , at Santa Fe, New Mexic	co, before 1	Examiner	Daniel S.
Nutter	0.		
NOW, on thisday of	augus L	, 19	79 , the
Division Director, having consid	dered the to	estimony,	the record,
and the recommendations of the I	Examiner, an	nd being	fully
advised in the premises,			
FINDS:			
(1) That due public notice	having been	n given a	s requir e d
by law, the Division has jurisdi	iction of th	nis cause	and the
subject matter thereof.			
(2) That the applicant, Gu	lf Oil Corp	oration	, is
the owner and operator of the _	W. A. Rams	ay Well N	10.4
located in Unit M of Section	<u> 36</u> , 5	Township	24 South
Range 37 East , NMPM,	Lea	County,	New Mexico.
(3) That the applicant seel	s authority	y to comm	ingle
Fusselman and	Montoya		production
within the wellbore of the above	-described	well.	

(4) That from the <u>Fusselman</u>	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 he recover
of additional hydrocarbons from each of the subject	t pocls, thereby
preventing waste, and will not violate correlative	rights.
(7) That the reservoir characteristics of each	ch of the
subject zones are such that underground waste would	d 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 opportun	ity 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	ct well is
shut-in for 7 consecutive days.	6.
(9) That in order to allocate the commingled	
to each of the commingled zones in the subject well	1 50 the 5
percent of the commingled oil gas production she	
allocated to the Fusselman U zone, and	å <u>50</u>
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	at should
consult with the supervisor of the Hobbs d	istrict office
of the Division and determine an allocation formula	a for each of
the production zones.	

IT IS THEMSFORE ORDERED:

(1) That me applicant, Gulf Oil Corporation	, is
hereby authorized to commingle Fusselman	and
Montoya production within the wellbo	re 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 Supervi	sor
of the Hobbs district office of the Division and	
determine an allocation formula for the allocation of produ	ction
to each cone in each of the subject wells.	
(ALTERNATE)	[
(2) That 50 percent of the commingled 31 production shall be allocated to the fusselman	
zone and percent of the commingled	2
production shal be allocated to theMontoya	
zone.	
(3) That the operator of the subject well shall immed	iately
notify the Division's Hobbs district office any ti	mc the
well has been shut-in for 7 consecutive days and shall conc	urrently
present, to the Division, a plan for remedial action.	.
(4) That jurisdiction of this cause is retained for t	he
entry of such further orders as the Division may deem neces	sary.
DONE at Santa Fe, New Mexico, on the day and year here	inabove
designated.	