ase Number

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Application Transcripts.

Small Exhibits

BLDG. # P.O. BOX 1092 + PHONE 243-6691 • ALBUQUERQUE, NEW MEXICO 87103 Rst national bank blog. East • Albuquerque, new mexico 87108 BEFORE THE

NEW MÉXICO OIL CONSERVATION COMMISSION

OIL CONSERVATION COMMISSION CONFERENCE ROOM,

STATE LAND OFFICE BUILDING

SANTA FE, NEW MEXICO

Tuesday, November 14, 1972

EXAMINER HEARING

IN THE MATTER OF:

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

Case No. 4855

BEFORE: Daniel S. Nutter, Examiner

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TRANSCRIPT OF HEARING

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MR. NUTTER: We will call Case 4855, application of Gulf Oil Corporation for downhole commingling, Lea County, New Mexico.

MR. KASTLER: If the Examiner please, I'm Bill Kastler from Midland, Texas, appearing on behalf of Gulf Oil Corporation, and our witness is Charles Kalteyer, from Midland also.

CHARLES KALTEYER,

a witness, having been first duly sworn according to law, upon his oath, testified as follows:

DIRECT EXAMINATION

BY MR. KASTLER:

- Will you please state your name, by whom you are employed, and in what capacity?
- My name is Charles Kalteyer, I'm employed by Gulf Oil Company, and I'm located in Midland, Texas, and my title is District Proration Engineer.
- Have you recently changed your job title from something else to District Proration Engineer?
- Yes, sir. As of the 1st of November I changed to the present title and I was formerly the Area Engineer in Hobbs, in the Hobbs area office, for Gulf.
- Have you for some time been employed by Gulf in it's Hobbs area, and are you familiar with the application in Case Number 4855?

1 A 2 Q	Yes, sir, I am. Have you previously appeared before the New Mexico Oil Commission and qualified as an expert petroleum engineer?
4 A	Yes, sir, I have. MR. KASTLER: Mr. Examiner, are the witness.
10 11 12 13 14 15 16 16 17 17 17 18 18 18 18 18 18 18 18 18 18 18 18 18	we are seeking authority to commingle in the wellbore, the production from the Cary-Montoya and South McCormack- the production from the Cary-Montoya and South McCormack- Silurian Oil Pools in our R. E. Cole (NCT-A) Well No. 10, Silurian Oil Pools in our R. E. Cole (NCT-A) Well No. 10, located in Unit E of Section 16, Township 22 South, Range 37 East, Lea County, New Mexico. Mr. Kalteyer, do you have a plat showing the R. E. Cole (NCT-A) Lease in Well No. 10? Yes, sir, it's marked as Exhibit 1. The R. E. Cole Lease
18 19 19 19 240. X	the pink circle identifying it as the subject the yellow coloring around Well 10 and the other wells in
SIMMS BLDG. P.O. BO	completions. Well No. 11 is colored in blue. It was a Cary- Wentova pool completion which has now been plugged off an
0 	is presently producing from the Blinebry. 25

S BLOG. - P.O. BOX 1092 - PHONE 249-669: - ALBUQUERQUE, NEW MEXICO 87103

The offset operators are shown. There are three operators in the South McCormack-Silurian Pool, Gulf; Stoltz, Wagner and Brown; and Texas Pacific Oil Company; and the notice of this application has been submitted to each of these parties.

Is this well now dually completed in the Cary-Montoya and South McCormack-Silurian Pools?

Authority to dual was never obtained in the Montoya and Silurian. At the time Well No. 10 was completed in 1967, an attempt was made to complete in the Montoya but it indicated marginal production, so a cast iron cement retainer was set above the Montoya to seal off that completion.

Exhibit 2 more clearly shows the present condition of the wellbore and the single completion was made in the South McCormack-Silurian Pool.

Refer to Exhibit 2 and explain, or discuss more fully, the history of Well No. 10, if you please?

Number 2 shows the present mechanical installation. The well was drilled in July of 1967, a 9 5/8" OD casing was set and cemented at 1,183 feet with 500 sacks of cement circulated. It was drilled to a total depth of 7,383 feet and a 7" OD casing set at 7,382 with a DV tool at 3,822 and cemented in two stages with cement circulated. The Montoya formation was perforated in the intervals

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7,312-14 and 7,323-25 and acidized treated and the well swabbed several days.

The swab test indicated an average daily production of 24 barrels of oil and 22 barrels of water and would require pumping. Since the prospects were good for satisfactory completion in the Silurian, a cast iron bridge plug was set at 7,280 and cement placed on top, sealing off the Montoya formation.

The Silurian formation was perforated from 7,224 to 26 and 7,238 to 40 and a 24-hour potential test on August 3, '67, the well flowed 195 barrels of oil and 147 barrels of water. In August of '69, the Silurian perforations were extended to include the interval 7,166 to 68 and 7,146 to 48 and 7,128 to 30. The Silurian production from this well is now declined to an average of 9 barrels of oil and 25 barrels of water. Again, referring to Exhibit Number 2, what will be required to accomplish downhole commingling? The cement retainer will be drilled out to expose the Montoya perforations. A retrievable full-bore tool will be run and set to isolate the Montoya completion and the Montoya will be swab tested for production and acid stimulated if necessary. After the testing, the production string will be rerun with a setting very similar to that in Exhibit 2.

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Q	Does this well meet the requirements of Oil Commission
	Rule No. 303-C for downhole commingling?
A	Yes, with the exception of the insufficient production
	information from the Cary-Montoya and the recent
	production tests of the Silurian.
	This test has been completed yesterday and a Form
	C-116 will be forthcoming.
Q	And that will be filed with the Commission?
A	Right.
Q	Can you briefly state what the results of that test show?
A	Tests taken November 11 indicated the well was pumping
	11 barrels of oil and 32 barrels of water, 64 Mcf gas,
*	the ratio of 5,818 to 1.
	MR. NUTTER: What was that?
ar en en en	THE WITNESS: 5,818 to 1.
Q	(By Mr. Kastler) Would you please briefly review these
	requirements of Rule 303-C with the available information
	that you have from the subject well?
A	Both zones are classified as oil zones. The total daily
	oil production from both zones in the 7,000 to 7,999
	interval bracket is less than 50 barrels a day. The

anticipated production from the Cary-Montoya would have to

zone died on completion attempt and would require pumping.

The upper zone is presently being pumped, the lower

be verified by testing as previously outlined.

dearnley, meier & mc cormick reporting service

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OB SIMMS BLDG. • D.O. BOX 1092 • PHONE 243-6691• ALBUQUERQUE, NEW MEXICO 87103 1210 First national bank bldg. East • Albuquerque, new Mexico 87108 Neither zone is anticipated to produce more water than the combined 50 barrels of oil per day limit.

The fluids from each zone are compatable with the fluids from the other and combining the fluid will not result in the formation of precipitants which might damage the reservoir.

Exhibit A is a report of a compatibility test of
the Montoya oil sample from the Harry Leonard E. No. 5
located in Section 16, 21, 37, Lea County; and water and
oil samples taken from a Silurian from our R. E. Cole
No. 10. Prior to Well No. 11 being plugged back in by
Oil Commission Order PC329, Montoya production was
Surface Commingled with the Silurian production without
operational problems. The total value of the crude will
not be reduced by commingling. The gravity of Silurian
oil is 43 degrees API and the gravity of the Montoya is
41.2. Both gravities fall within the same price category.
The ownership of the two zones to be commingled is
common and commingling will not jeopardize the efficiency
of secondary future recovery procedures.

- Will you now refer to Exhibit Number 4 and explain what is outlined and shown on there?
- Exhibit 4 is a tabulation of production for the period

 January, 1971, through September, '72, from our Well No. 10.

 The production is declined from approximately 30 barrels

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		of oil per day in January, 1972, to approximately 9
2		barrels average in September. During the last three
3		months, production of oil, water, and gas appears to have
		stabilized. The top allowable for the South McCormack-
5		Silurian Pool is 187 barrels, as is the top allowable in
, 6	-	the Cary-Montoya.
7	Q	Please refer to Exhibit Number 5 and explain what it is
8		and what's shown thereon?
9	A	Exhibit 5 is the Daily Workover Report for Well No. 10
10		during the completion attempt in the Cary-Montoya Pool.
11	14 Av	This information was discussed earlier where we were
<u>2</u> 12		unable to get the well to produce by natural flow.
13 13 14 14 14	Q	How would you recommend the allowable be treated if this
14 - 14		application should be approved?
± ₩ 2	A	We would recommend that one allowable be assigned to this
ੇ ਹੈ 16		well and it could be either to the Silurian or Montoya
17		Pool. Since there are no other wells in the Cary-Montoya
18	i i	Pool at this time, we recommend that it be assigned to
ဗ 19		the South McCormack-Silurian Pool.
n Y 20 ₹	Q	Well, this being a State of New Mexico Lease, did you
1216 FIRST NATIONAL BANK BLOG. EAST. ALBUQUE		contact the Commissioner of Public Lands concerning your
¥ 22	3	commingling proposal?
ž 23	A	Yes, sir, we did. Exhibit 6 is a copy of a letter of
24	•	approval from his office.
2!	S Q	Do you have anything further to add in this case?

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A No, sir.

Q In your opinion, will the granting of

Q In your opinion, will the granting of this request be in the interest of conservation and prevention of waste?

A Yes, sir. At the present time the lower zone is not being produced, it is not economically feasible to instal: a second-string tubing and put the zone to pump as a dual By allowing the two zones to be commingled downhole, in effect, a lower economic limit for each zone can be realized, thereby recovering additional oil that would remain unrecovered.

- Have the exhibits been prepared by you or at your direction and under your supervision?
- A Yes, sir, they were.

MR. KASTLER: Mr. Examiner, I move at this time that Exhibit 1 through 6 be admitted into evidence and this concludes our questions on Direct Examination.

MR. NUTTER: Gulf Exhibits 1 through 6 will be admitted into evidence.

CROSS EXAMINATION

BY MR. NUTTER:

Mr. Kalteyer, I note from your Exhibit 1 you only show one well in blue being a Montoya completion; yet, this analysis on Exhibit Number 3, I think, is an analysis of Montoya oil from the Leonard E. 5. Now, where would that well be?

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	BLDG P.O. BOX 1092 . PHONE 245-6691 . ALBUQUERQUE, NEW MEXICO 87103
	DG. + P.O. BOX 1092 + PHONE 249-6

1	A	The Leonard E. 5 is located in Unit H of Section 16,
2		21, 37.
3	Q	So that's a full township away, then, is this correct?
-4		Yes, sir.
5	Q	How long has it been since this No.11 produced from the
6	ř.	Montoya zone, on the Cole Lease?
7	A	I don't believe I have that date with me of when that
8		was plugged back to the Blinebry, but I can establish
9		that date and supply that to you.
10	Q	Well, this is the only well in this area that is
11	• • • • • • • • • • • • • • • • • • •	produced from the Montoya, is this correct, the No. 11?
13	A	Yes, sir.
13	Q	Now, you could have completed the No. 10 in 1967 as a
- 14		marginal producer from the Montoya, however, you
15		preferred to have a flowing well, so you just sealed it
16		off?
17	A (That's correct.
18	Q ····	Well, now, you mention that on the original completion it
19		was capable of making 24 barrels of oil per day, but now
20		your November 11 test if only 11 barrels per day.
21	A	That is the Silurian test. The Cary-Montoya, we do not
22		have a current test on it because it's still plugged off.
23	Q	I see. I thought you had already tested the Montoya.
24		This 11 barrels of oil and 32 barrels of water and the
	I	

GOR 5,818, that's the Silurian-Devonian?

3.3 1.2	e ^r	PAGE 12
(9) (2)	î.	Yes, right. We will establish the rate from the co
Service		Montoya after we knock out the bridge plug.
- 6 9 		Now, in 1967 when you got that swab test of 24 barrels
Section Sectio		of oil, you had acidized the well in the Montoya, had
		you not?
dearnley, meier & mc cormick regarding		6 A Yes.
Ē		7 Q Probably the remains
2		Probably the completion data on Exhibit Number 5 will
Z III	f' .	the treatment that was used. Yes, I see you
.er .er		deldized it.
me		so you don't anticipate anymore production the
ley,	1	obtained in '67 on the well?
E	12	A No, sir.
×	13	MR. NUTTER: Are there any further questions of
Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z	14	the witness?
. 3 2 C 3 C	15	(No response.)
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	16	MR. NUTTER: He may be excused.
4 + 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	17	Do you have and the
243-6691 AST - AL	18	Do you have anything further, Mr. Kastler?
_ ⊌	19	MR. KASTLER: Nothing further at this time, Mr.
AN A	20	
× •0		MR. NUTTER: Does anyone have anything they wish to
7.0. BO	21	offer in Case 4855?
209 SIMMS BLDG.	22	(No response.)
SIMMS 2	23	MR. NUTTER: We will take the case under advisement
209	24	and call the next case.
	25	

dearnley, meier & mc cormick reporting sarvice, inc

209 SIMMS BLDG. 8 P.O. BOX 10918-8 PHONE 245-66916-4 LBUQUERQUE. NEW MEXICO 87109 1216 FIRST NATIONAL BANK BLDG. EAST-8 LBUQUERQUE, NEW MEXICO 67108

STATE OF NEW MEXICO SS COUNTY OF BERNALILLO

I, JOHN DE LA ROSA, a Court Reporter, in and for the County of Bernalillo, State of New Mexico, do hereby certify that the foregoing and attached Transcript of Hearing before the New Mexico Oil Conservation Commission was reported by me; and that the same is a true and correct record of the said proceedings to the best of my knowledge, skill and ability.

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WITNESS			PAGE
CHARLES KALTEYER			
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Gulf's Exhibits #1	through #6	10	10
	Side Sign	areby ourtify that to record of the sinor hearing of the year on the same of t	MCBC CONTRACTOR

OIL CONSERVATION COMMISSION P. O. BOX 2088 SANTA FE, NEW MEXICO 87501

March 19, 1973

Gulf Oil Company-U.S. Post Office Box 670 Hobbs, New Mexico 88240

Attention: Mr. C. D. Borland

Re: Order No. R-4443 Case No.4855

Gentlemen:

Reference is made to Commission Order No. R-4443, which authorized down-hole commingling of Montoya and Silurian production in the well-bore of your R. E. Cole Well No. 10, located in Unit B of Section 16, Township 22 South, Range 37 East, NMPM, Lea County, New Mexico, and calls for the establishment of a formula for the assignment of allowable and production to each zone.

The production tests taken immediately before and after commingling indicate that approximately 50 percent of the oil produced after commingling came from each zone. Allowable and production shall therefore hereafter be assigned on a 50-50 basis to each zone.

very truly yours,

A. L. PORTER, Jr. Secretary-Director

ALP/DSN/ir

cc: Oil Conservation Commission Hobbs, New Mexico

Case File No. 4855

BEFORE THE OIL CONSERVATION COMMISSION OF THE STATE OF NEW MEXICO

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

> CASE NO. 4855 Order No. R-4443

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

ORDER OF THE COMMISSION

BY THE COMMISSION:

This cause came on for hearing at 9 a.m. on November 14, 1972, at Santa Fe, New Mexico, before Examiner Daniel S. Nutter.

NOW, on this 27th day of November, 1972, the Commission, a quorum being present, having considered the testimony, the record, and the recommendations of the Examiner, and being fully advised in the premises,

FINDS:

- (1) That due public notice having been given as required by law, the Commission has jurisdiction of this cause and the subject matter thereof.
- (2) That the applicant, Gulf Oil Corporation, is the owner and operator of the R. E. Cole (NCT-A) Well No. 10 in Unit E of Section 16, Township 22 South, Range 37 East, NMPM, Lea County, New Mexico.
- (3) That when said well was drilled in 1967, swab tests in the Montoya formation indicated low marginal producing capacity in said formation, and said zone was sealed off and the well completed in the South McCormack-Silurian Pool.
- (4) That productivity in the South McCormack-Silurian zone of the subject well has now declined to the economic limit of production.
- (5) That the applicant proposes to open the well to both the Silurian and Montoya formations and to commingle in the well-bore production from the South McCormack-Silurian and the Cary-Montoya Pools.
- (6) That analysis of the combined liquid hydrocarbon production from both of the aforesaid pools indicates the fluids are compatible with each other and that no peculiar production problems should result from the proposed downhole commingling.

-2-Case No. 4855 Order No. R-4443

- (7) That approval of the application will not cause waste nor impair correlative rights, and should extend the economic life of the well, thereby resulting in the recovery of oil that would otherwise be lost.
- (8) That the proposed downhole commingling should be approved.
- (9) That the commingled production should be allocated upon the basis of production tests to be submitted to the Santa Fe office of the Commission at the time of conversion.

IT IS THEREFORE ORDERED:

- (1) That the applicant, Gulf Oil Corporation, is hereby authorized to complete its R. E. Cole (MCT-A) Well No. 10, located in Unit E of Section 16, Township 22 South, Range 37 East, NMPM, Lea County, New Mexico, in such a manner as to produce oil from the Cary-Montoya and South McCormack-Silurian Oil Pools through one string of tubing, commingling in the Well-bore the production from both pools.
- (2) That immediately upon completion of the above-described well in both zones, the operator shall furnish the Santa Fe office of the Commission production tests for the combined zones of the well, whereupon the Commission shall established formula for allocating the commingled oil production and commingled gas production to each zone.
- (3) That the commingling in the well-bore authorized by this order shall continue only so long as the commingled production of the two zones does not exceed 50 barrels of oil per day nor 50 barrels of water per day.
- (4) That the applicant shall complete, operate, and produce said well in accordance with the provisions of Rule 112-A of the Commission Rules and Regulations insofar as said rule is not inconsistent with this order.
- (5) That jurisdiction of this cause is retained for the entry of such further orders as the Commission may deem necessary.

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

STATE OF NEW MEXICO
OIL CONSERVATION COMMISSION

BRICE KING, Chairman

A. L. PORTER, Jr. Member & Secretary

d.

Mr. A. L. Porter, Jr.

New Mexico 0il Conservation Commission
P. O. Box 2088
Santa Fe, New Mexico 87501

Gentlemen:

Commission Order R-4443 authorized the downhole commingling of South Mc-Cormack Silurian and Carry Montacy production in our R. E. Cole (NCT-A), well No. 10, located 2310, RM & 2001 RM & 2002 RM Secretor 16, 22-5, 37-E. Paragraph two of this Order.

Cormack Silurian and Carry Montoya production in our R. E. Cole (NCT-A), well No. 10, located 2310' FkL & 990' FWL, Section 16, 22-S, 37-E. Paragraph two of this Order required production tests for the combined zones, whereupon the Commission would establish a formula for allocating the commingled production. These tests were submitted January 23, 1973.

Would you, at your earliest convenience, please furnish us this formula so that we can properly allocate this production to each zone.

Yours truly,

C. D. BORLAND

lwd:

Gulf

A DIVISION OF GULF OIL CORPORATION

Gulf Oil Company-U.S.

HOBBS PRODUCTION AREA

C. D. Borland

January 23, 1973

P. O. Box 670 Hobbs, New Mexico 88240

Mr. Dan Nutter New Mexico Oil Conservation Commission P. O. Box 2088 Santa Fe, New Mexico 87501

Dear Sir:

As required by R-4443, attached are the tests before and after commingling our R. E. Cole (NCT-A) Well No. 10, McCormack Silurian, South and the Carry Montoya Pools, in the well bore.

Please assign an allowable to each zone as stipulated by R-4443, based on these two tests.

Yours truly

C. D. BORLAND

1wd

Att'd cc: NMOCC, Hobbs, New Mexico



A DIVISION OF GULF OIL CORPORATION

NEW MEXICO OIL CONSERVATION COMMISSION GAS -- OIL RATIO TESTS

C-116 Revised 1-1-65

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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.

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.

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

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

Well Tester

(Title)

January 23, 1973

(Date)

NEW MEXICO OIL CONSERVATION COMMISSION GAS - OIL RATIO TESTS

C-116 Revised 1-1-65

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

Weil Tester

(Tide)

January 23, 1973.
(Date)

NEW MEXICO OIL CONSERVATION COMMISSION GAS - OIL RATIO TESTS

C-116 Revised 1-1-65

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Well Tester

(Tide)

January 23, 1973

(Date)

NEW MEXICO OIL CONSERVATION COMMISSION GAS-OIL RATIO TESTS

C-116 Revised 1-1-65

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Well Tester

(Title)

January 23, 1973

Gulf Oil Company-U.S.

EXPLORATION AND PRODUCTION DEPARTMENT
MIDLAND DISTRICT

W. B. Hopkins

J. A. Hord
DISTRICT EXPLORATION
HANAGER

J. L. Pike
DISTRICT PRODUCTION
MANAGER

M. B. Moseley
DISTRICT SERVICES MANAGER

November 17, 1972

P. O. Drawer 1150 Idland, Texas 79701

NOV 2C 1972

Santa Fe

Oil Conservation Commission P. O. Box 1148 Santa Fe, New Mexico 87501

Attention: Dan S. Nutter

Re: Case No. 4855
Application to Down-Hole Commingle
R. E. Cole (NCT-A) Well No. 10
Lea County, New Mexico

Gentlemen:

In connection with the subject Examiners Hearing, I am forwarding copies of current 24-hour productivity test on Commission Form C-116.

You will recall that the data was attested to at the hearing with a promise of a follow-up with this form.

Yours very truly,

L. PIKE

CFK: jmc Attachment NEW MEXICO OIL CONSERVATION COMMISSION
GAS-OIL RATIO TESTS

C-116 Revised 1-1-65

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Say Malson
(Signature)
Well Tester

November 13, 1972

(Date)

NEW MEXICO OIL CONSERVATION COMMISSION GAS-OIL RATIO TESTS

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(Signature) Well Tester

(Tide) (1972) November 13, 1972

(Date)

NEW MEXICO OIL CONSERVATION COMMISSION GAS-OIL RATIO TESTS

Revised 1-1-65

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Well Tester November 13, 1972



OIL CONSERVATION COMMISSION

STATE OF NEW MEXICO P. O. BOX 2088 - SANTA FE 87301

November 28, 1972

GOVERNOR BRUCE KING CHAIRMAN

LAND COMMISSIONER ALEX J. ARMIJO MEMBER

STATE GEOLOGIST
A. L. PORTER, JR.
SECRETARY - DIRECTOR

	Re:	Case No	4855
Mr. Bill Kastler	,	order No.	R-4443
Gulf Oil Corporation Post Office Drawer 1150	**************************************	Applicant:	
Midland, Texas 79701		Gulf Oil	Corporation

Dear Sir:

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

A. L. PORTER, Jr.
Secretary-Director

ALP/ir	
Copy of order also sent to:	
Hobbs OCC X Artesia OCC	
Aztec OCC	
Other	

DOCKET: EXAMINER HEARING - TUESDAY - NOVEMBER 14, 1972

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

The following cases will be heard before Daniel S. Nutter, Examiner, or Elvis A. Utz, Alternate Examiner:

- ALLOWABLE: (1)
- (1) Consideration of the allowable production of gas for December, 1972, from seventeen provated pools in Lea, Eddy, Roosevelt, and Chaves Counties. New Mexico.
 - (2) Consideration of the allowable production of gas from nine prorated pools in San Juan, Rio Arriba, and Sandoval Counties, New Mexico for December, 1972.
 - (3) Consideration of purchasers' nominations for the one-year period beginning January 1, 1973, for both of the above areas.

CASE 4608: (Reopened) (Continued from October 4, 1972)

In the matter of Case 4608 being reopened pursuant to the provisions of Order No. R-4213 which order established special rules and regulations for the Haystack Siluro-Devonian Pool, Chaves County, New Mexico, including a provision for 80-acre spacing units. All interested persons may appear and show cause why said pool should not be developed on 40-acre spacing units.

CASE 4855:

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 oil production from the Cary-Montoya and South McCormack-Silurian Oil Pools in the wellbore of its R. E. Cole (NCT-A) Well No. 10 in Unit E of Section 16, Township 22 South, Range 37 East, Lea County, New Mexico.

CASE 4856:

Application of Gulf Oil Corporation for a waterflood project, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks authority to institute a waterflood project in the Shugart Pool, Eddy County, New Mexico, by the injection of water into the Queen formation through three wells on its Federal Littlefield "AB" Lease in Section 22, Township 18 South, Range 31 East, Eddy County, New Mexico.

CASE 4857: Application of Perry R. Bass for an unorthodox location, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks approval for an unorthodox gas well location for his Big Eddy Well No. 7 located 660 feet from the South line and 1980 feet from the East line of Section 19, Township 20 South, Range 31 East, Maroon Cliffs-Morrow Gas Pool, Eddy County, New Mexico, with the E/2 of said Section 19 to be dedicated to the well.

CASE 4858: Application of Continental Oil Company for two non-standard gas provation units, Lea County, New Mexico. Applicant, in the above-non-standard gas provation units in Township 21 South, Range 37

A 120-acre unit comprising the N/2 SW/4 and the SW/4 SW/4 of Section 21, to be dedicated to applicant's M. E. Wantz Well No. 11 the NW/4 SE/4, S/2 SE/4 and SE/4 SW/4 of Section 21, and a 160-acre unit comprising to applicant's M. E. Wantz Well No. 8 located in Unit 0 of said Section 21.

CASE 4859: Application of Continental Oil Company for two non-standard gas provation units, Lea County, New Mexico. Applicant, in the above-styled cause, seeks approval of the two following Blinebry Gas Pool non-standard provation units in Township 21 South, Range 37 East:

An 80-acre unit comprising the SW/4 NW/4 of Section 13 and the SE/4 NE/4 of Section 14, to be dedicated to applicant's Lockhart B-14 "A" Well No. 1 located in Unit H of Section 14, and a 160-acre unit comprising the NW/4 SE/4, N/2 SW/4, and SW/4 SW/4 of Section 13, to be simultaneously dedicated to applicant's Lockhart B-13 "A" Wells Nos. 1 and 8 located in Units M and L, respectively, of said Section 13.

CASE 4860: Application of Craig Folson for an unorthodox oil well location, Chaves County, New Mexico. Applicant, in the above-styled cause, seeks authority to drill a well to test the Queen formation at an unorthodox oil well location 1340 feet from the South line and 1300 feet from the East line of Section 12, Township 13 South, Range 31 East, Caprock-Queen Pool, Chaves County, New Mexico.

CASE 4861: Application of Cities Service Oil Company for the amendment of Order R-4239, Eddy County, New Mexico. Applicant, in the above-styled all mineral interests in the South Carlisbad-Morrow Gas Pool under-County, New Mexico, to be dedicated to a well to be drilled at an the East line of said Section 19 and provided \$60.00 per month as the that said order be amended to provide for the drilling of a well on be established as the charge for supervision.

CASE 4862: Application of Adobe 011 Company for a non-standard gas proration unit and an unorthodox location, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks approval of a 520-acre non-standard

(Case 4862 continued from Page 2)

gas proration unit comprising the NE/4, SE/4, E/2 SW/4, N/2 NW/4, and SE/4 NW/4 of Section 11, Township 23 South, Range 24 East, Rock Tank-Upper Morrow and Rock Tank-Lower Morrow Gas Pools in Eddy County, New Mexico, to be dedicated to a well to be drilled at an unorthodox location 320 feet from the South-and East lines of said Section 11.

CASE 4863: Application of C & K Petroleum Inc. for a non-standard gas proration unit and an unorthodox location, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks approval of a 225.59-acre non-standard West Atoka-Morrow gas proration unit in Section 18, Township 18 South, Range 26 East, comprising the SW/4, the SW/4 SE/4, and that portion of the NW/4 SE/4 described as follows:

Beginning at the Northwest corner of said NW/4 SE/4, thence South 1320 feet, thence East 1193.4 feet, thence North 639 feet, thence West 242.2 feet, thence North 30 degrees West, 452.6 feet, thence West 267 feet, thence North 8 degrees East, 267 feet to the North line of said NW/4 SE/4, thence West 507.4 feet to the point of beginning.

Applicant further seeks authority to drill a well for said unit at an unorthodox location 990 feet from the South and West lines of said Section 18.

CASE 4864: Southeastern New Mexico nomenclature case calling for an order for the creation and extension of certain pools in Chaves, Eddy and Lea Counties, New Mexico.

(a) Create a new pool in Eddy County, New Mexico, classified as a gas pool for Canyon production and designated as the South Carlsbad-Canyon Gas Pool. The discovery well is the Phillips Petroleum Company Drag B No. 1 located in Unit K of Section 18, Township 23 South, Range 27 East, NMPM. Said pool described as:

TOWNSHIP 23 SOUTH, RANGE 27 EAST, NMPM Section 18: S/2

(b) Create a new pool in Lea County, New Mexico, classified as a gas pool for Morrow production and designated as the Hat Mesa-Morrow Gas Pool. The discovery well is the Phillips Petroleum Company Hat Mesa No. 1 located in Unit G of Section 11, Township 21 South, Range 32 East, NMPM. Said pool described as:

TOWNSHIP 21 SOUTH, RANGE 32 EAST, NMPM Section 11: E/2

Examiner Hearing - Tuesday - November 14, 1972

(Case 4864 continued from Page 3)

(c) Create a new pool in Eddy County, New Mexico, classified as a gas pool for Morrow production and designated as the Rocky Arroyo-Morrow Gas Pool. The discovery well is the El Paso Natural Gas Company Rocky Arroyo No. 1 located in Unit J of Section 8, Township 22 South, Range 22 East, NMPM. Said pool described as:

TOWNSHIP 22 SOUTH, RANGE 22 EAST, NMPM Section 8: E/2 Section 17: N/2

(d) Create a new pool in Eddy County, New Mexico, classified as a gas pool for Wolfcamp production and designated as the Rocky Arroyo-Wolfcamp Gas Pool. The discovery well is the El Paso Natural Gas Company Rocky Arroyo No. 1 located in Unit J of Section 8, Township 22 South, Range 22 East, NMPM. Said pool described as:

TOWNSHIP 22 SOUTH, RANGE 22 EAST, NMPM Section 8: SE/4

(e) Create a new pool in Eddy County, New Mexico, classified as a gas pool for Lower Pennsylvanian production and designated as the South Sand Dunes-Lower Pennsylvanian Gas Pool. The discovery well is the El Paso Natural Gas Company Sundance Federal No. 1 located in Unit F of Section 4, Township 24 South, Range 31 East, NMPM. Said pool described as:

TOWNSHIP 24 SOUTH, RANGE 31 EAST, NMPM Section 4: N/2

(f) Create a new pool in Eddy County, New Mexico, classified as a gas pool for Morrow production and designated as the Winchester-Morrow Gas Pool. The discovery well is the Penroc Oil Corporation Dero Federal No. 1 located in Unit P of Section 35, Township 19 South, Range 28 East, NMFM. Said pool described as:

TOWNSHIP 19 SOUTH, RANGE 28 EAST, NMPM Section 35: S/2

(g) Extend the Blinebry Gas Pool in Lea County, New Mexico, to include therein:

TOWNSHIP 21 SOUTH, RANGE 36 EAST, NMPM Section 25: SW/4

(h) Extend the Buffalo Valley-Pennsylvanian Gas Pool in Chaves County, New Mexico, to include therein:

Examiner Hearing - Tuesday - November 14, 1972

Docket No. 26-72

(Case 4864, Paragraph (h) continued from Page 4)

TOWNSHIP 15 SOUTH, RANGE 28 EAST, NMPM Section 7: S/2
Section 18: N/2

(i) Extend the South Carlsbad-Morrow Gas Pool in Eddy County, New

TOWNSHIP 23 SOUTH, RANGE 27 EAST, NMPM Section 18: S/2

(j) Extend the East Chisum-San Andres Pool in Chaves County, New Mexico, to include therein:

TOWNSHIP 11 SOUTH, RANGE 28 EAST, NMPM Section 16: NW/4 NE/4

(k) Extend the North Eunice-San Andres Gas Pool in Lea County, New Mexico, to include therein:

TOWNSHIP 21 SOUTH, RANGE 37 EAST, NMPM Section 17: NW/4
Section 18: NE/4

(1) Extend the Grayburg Jackson Pool in Eddy County, New Mexico, to

TOWNSHIP 17 SOUTH, RANGE 30 EAST, NMPM Section 7: SE/4

(m) Extend the Haystack-Cisco Gas Pool in Chaves County, New Mexico, to include therein:

TOWNSHIP 6 SOUTH, RANGE 27 EAST, NMPM Section 9: All Section 16: N/2

(n) Extend the Penasco Draw San Andres-Yeso Pool in Eddy County.

TOWNSHIP 19 SOUTH, RANGE 25 EAST, NMPM Section 5: SW/4
Section 6: S/2

(o) Extend the Red Lake Queen-Grayburg-San Andres Pool in Eddy County, New Mexico, to include therein:

TOWNSHIP 17 SOUTH, RANGE 27 EAST, NMPM Section 23: SE/4 NW/4, NE/4 SW/4, and N/2 SE/4

Section 24: SE/4 and N/2 SW/4

Examiner Hearing - Tuesday - November 14, 1972 -6-

(Case 4864 continued from Page 5)

(p) Extend the East Shoebar-Devonian Pool in Lea County, New Mexico, to include therein:

TOWNSHIP 16 SOUTH, RANGE 36 EAST, NMPM Section 29: NW/4

(q) Extend the Shugart Pool in Eddy County, New Mexico, to include therein:

TOWNSHIP 18 SOUTH, RANGE 30 EAST, NMPM Section 36: NW/4

(r) Extend the West Tres Papalotes-Pennsylvanian Pool in Lea County, New Mexico, to include therein:

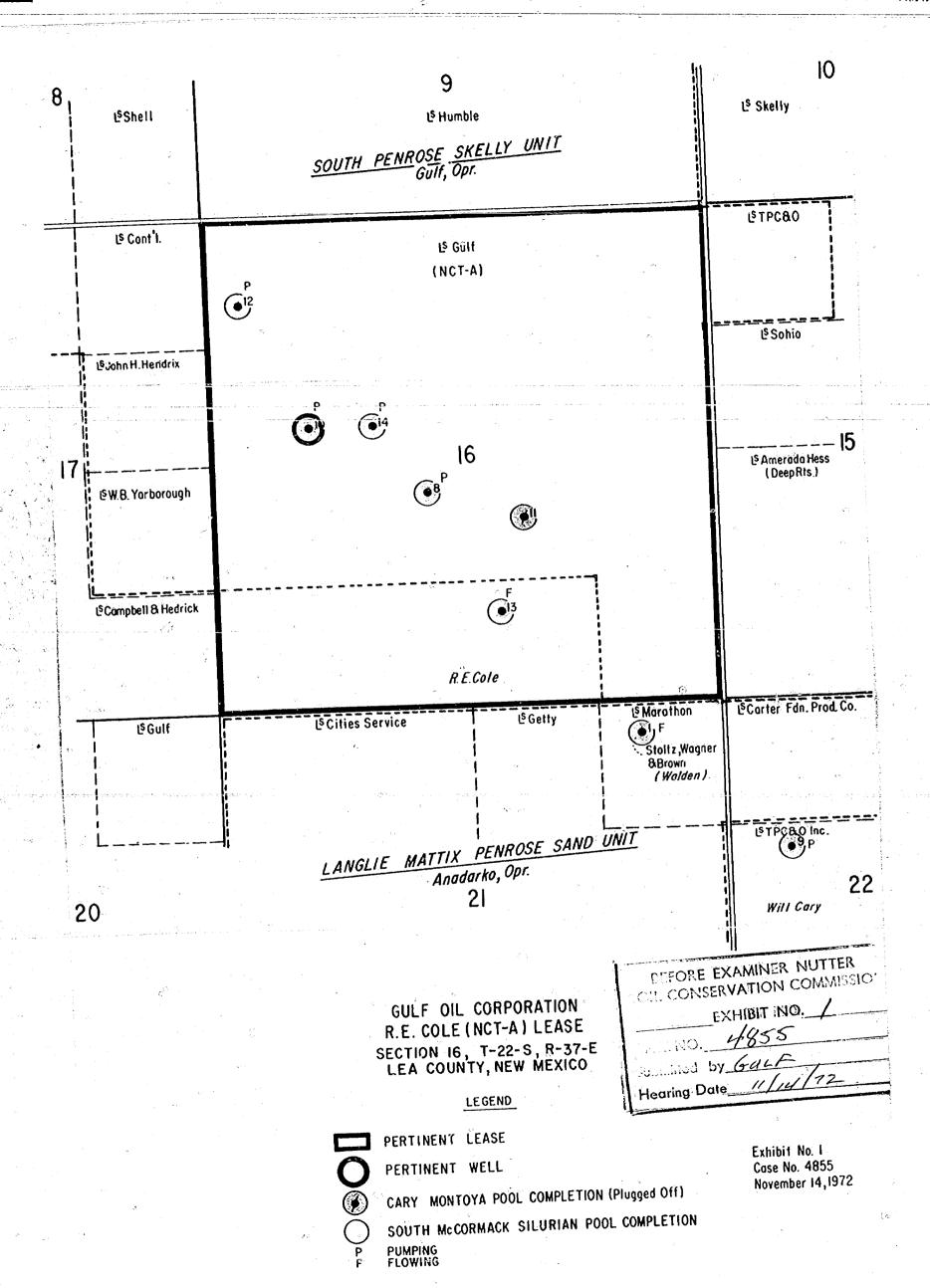
TOWNSHIP 14 SOUTH, RANGE 34 EAST, NMPM Section 30: NE/4

(s) Extend the Washington Ranch-Morrow Gas Pool in Eddy County, New Mexico, to include therein:

TOWNSHIP 26 SOUTH, RANGE 24 EAST, NMPM Section 2: W/2 Section 11: All

(t) Extend the White City-Pennsylvanian Gas Pool in Eddy County, New Mexico, to include therein:

TOWNSHIP 24 SOUTH, RANGE 26 EAST, NMPM Section 32: All



SCHEMATIC DIAGRAM

GULF OIL CORPORATION

R. E. COLE (NCT-A) WELL NO. 10

CARY MONTOYA & SOUTH MCCORMACK OIL POOLS

LEA COUNTY, NEW MEXICO

PRESENT MECHANICAL INSTALLATION GROUND LEVEL ELEV. 33941 9-5/8" O.D.CASING SET @ 1183' W/500 SX. CMT. CIRC. 2-3/8" O.D. TUBING STRING-ROD STRING & PUMP BAKER MODEL "B" TUBING-PERF.: 7128-30', 7146-48', 7166-68' ANCHOR @ 7167' PUMP SEATING NIPPLE @ 7201 SILURIAN FORMATION PERFORATED TUBING NIPPLE -PERF.: 7224-261, 7238-401 TOP OF CMT. ON TOP OF B.P. @ 7268! C. I. B. P. @ 72801-PERF.: 7312-14', 7323-25' - MONTOYA FORMATION P.B. DEPTH 73491 T.D. 7383' - 7" O.D. CASING SET @ 7382'
F.C. @ 7348', D.V. TOOL @ 3822'
CEMENTED IN TWO STACES: GEMENT CIRC. DEFORE EXAMINER MUTTER, TE CONSERVATION COMMEDIAN EXHIBIT 2 EXHIBIT NO. 2 CASE NO. 4855 November 14, 1972 3 miles by Gyza Hearing Date_

HALLIBURTON SERVICES LOVINGTON, NEW MEXICO

LABORATORY REPORT

This report is the property of Halliburton Services and neither it nor any part thereof nor a copy thereof is to be published or disclosed without first securing the express written approval of laboratory management; it may however, be used in the course of regular business operations by any person or concern and employees thereof receiving such report from Halliourton Services.

Date Rec.

8-19-72

Formation

As Marked

Source

PURPOSE: Determine the compatibility of the submitted samples, and note the precipitate, if any, formed by mixing the samples.

Depth.

Field.

RESULTS: Samples received - Oil and Water from Cole A-10 (Silurian)
Oil from Leonard # E-5 (Montoya)

The above samples were mixed as follows, and observed for 24 hours at 125 F., with the following results:

- 2 parts Silurian Oil
- l part Silurian Water
- 2 parts Montoya Oil

No emulsion was noted after 24 hours, and no precipitate was formed.

These samples are compatible.

CASE NO. 4855 November ,14, 1972 ELFORE EXAMINER NUTER
CIL CONSERVATION COMMAND IN
EXHIBIT NO. 3

JASE NO. 4858

To littled by 6 ULF
Hodring Date 11/14/72

Respectfully submitted,

Analyst: Brewer cc:

EXHIBIT #3

To Gulf Oil Corporation

Hobbs, New Mexico

ATTN: Mr. Russell Worley

As Marked

Box 670

Submitted by.

Well_No._

County

HALLIBURTON SERVICES

DIVISION CHEMIST

NOTICE

This report is limited to the described sample tested. Any user of this report agrees that Halliburton shall not be liable for any loss or damage, whether it be to not or omission, resulting from such report or its use.

TABULATION OF PRODUCTION R. E. COLE (NCT-A) NO. 10 South McCormack Silurian Pool Lea County, New Mexico

YEAR	Lea County, New Mexico				
MONTH 1971	OIL Bbls	GAS - MCF	WATER Bb1s		
Jan.	1122	<u></u>	752		
Feb.	1043	742	642		
Mar.	1001	758	650		
Apr.	811	644	810		
May	903	1084	810		
June	811	957	730		
July	838	978	837		
Aug.	745	947	840		
Sept.	746	864	_		
Oct.	836	1688	730		
Nov.	670	1226	528	·	
Dec.	602	1415	486		
1972	w.				
Jan.	900	2086	290		
Feb.	785	≥ 1755 a.	972		
Mar.	821	2306	796		
Apr.	413	1626	1094		
May	430	2106	1178		
June	422	1565	1016		
July	276	1293	872		
Aug.	287	1346	723		
Sept.	270	1302	752		
	organia	e general general de la companya de la companya de la companya de la companya de la companya de la companya de La companya de la companya de la companya de la companya de la companya de la companya de la companya de la co	minima and constitution as		
1972 Da	aily Avg. 16.8 Bb1s	56.1 MCF	28 BB1s.		

Cumulative Oil Prod. to 10-1-72 - 129,328 Bbls.

EXHIBIT 4
CASE NO. 4855
November 14, 1972

	DEFORE EXAMINER NUMBER OIL CONSERVATION COMMILLION
STATE AND ADDRESS	EXHIBIT NO. 48, 4
Hatel Contract	demind by GULF
-	Hearing Date 11/14/72

WELL HISTORY

CARY MONTOYA POOL

R. E. COLE (NCT-A) NO. 10

History covers period from 7-24-67 to 8-2-67.

TD 7383', PBTD 7347', 7" casing.

- 7-24-67 Perforated 7" csg 7323-25: w/g-1/2: ju, 7312-14: w/7-1/2: ju in Cary Montoya zone. Ran 2-3/8" tbg w/full bore pkr. Set pkr at 7264', ND BOP's, NU Mil. Swbd zone. Ran 2-3/8" tbg w/full bore pkr. Set pkr at 7264', ND BOP's, NU Mil. Swbd zone. Ran 2-3/8" tbg w/full bore pkr. Set pkr at 7264', ND BOP's, NU Mil. Swbd zone. Ran 2-3/8" tbg w/full bore pkr. Set pkr at 7264', ND BOP's, NU Mil. Swbd zone. Ran 2-3/8" tbg w/full bore pkr. Set pkr at 7264', ND BOP's, NU Mil. Swbd zone. Ran 2-3/8" tbg w/full bore pkr. Set pkr at 7264', ND BOP's, NU Mil. Swbd zone. Ran 2-3/8" tbg w/full bore pkr. Set pkr at 7264', ND BOP's, NU Mil. Swbd zone. Ran 2-3/8" tbg w/full bore pkr. Set pkr at 7264', ND BOP's, NU Mil. Swbd zone. Ran 2-3/8" tbg w/full bore pkr. Set pkr at 7264', ND BOP's, NU Mil. Swbd zone. Ran 2-3/8" tbg w/full bore pkr. Set pkr at 7264', ND BOP's, NU Mil. Swbd zone. Ran 2-3/8" tbg w/full bore pkr. Set pkr at 7264', ND BOP's, NU Mil. Swbd zone. Ran 2-3/8" tbg w/full bore pkr. Set pkr at 7264', ND BOP's, NU Mil. Swbd zone. Ran 2-3/8" tbg w/full bore pkr. Set pkr at 7264', ND BOP's, NU Mil. Swbd zone. Ran 2-3/8" tbg w/full bore pkr. Set pkr at 7264', ND BOP's, NU Mil. Swbd zone. Ran 2-3/8" tbg w/full bore pkr. Set pkr at 7264', ND BOP's, NU Mil. Swbd zone. Ran 2-3/8" tbg w/full bore pkr. Set pkr at 7264', ND BOP's, NU Mil. Swbd zone. Ran 2-3/8" tbg w/full bore pkr. Set pkr at 7264', ND BOP's, NU Mil. Swbd zone. Ran 2-3/8" tbg w/full bore pkr. Set pkr at 7264', ND BOP's, NU Mil. Swbd zone. Ran 2-3/8" tbg w/full bore pkr. Set pkr at 7264', ND BOP's, NU Mil. Swbd zone. Ran 2-3/8" tbg w/full bore pkr. Set pkr at 7264', ND BOP's, NU Mil. Swbd zone. Ran 2-3/8" tbg w/full bore pkr. Set pkr at 7264', ND BOP's, NU Mil. Swbd zone. Ran 2-3/8" tbg w/full bore pkr. Set pkr at 7264', ND BOP's tbg w/full bore pkr. Set pkr at 7264', ND BOP's tbg w/full bore pkr. Set pkr at 7264', ND BOP's tbg w/full bore pkr at 7264', ND BOP's tbg w/full bore pkr at 7264', ND BOP's tbg w/full bore pkr at 7264', ND BOP's tbg w/full bore pkr at Attempted to acidize. Got approx 35 gal at 6000#, WN break down.
- 7-25-67 Rel pkr. ND WH. NU BOP's, lowered 2-3/8" tog. Spotted acid over perfs 7312-25'.

 Picked up & reset pkr at 7254'. Ppd 500 gal 15% NE acid into perfs 7312-25'.

 Picked up & reset pkr at 7254'. Ppd 500 gal 15% NE acid into perfs 7312-25'.

 Broke down form w/2600#. Max press 2600#, min 2200#, AIR 3 BPM, ISIP 1600#,

 Broke down form w/2600#. Max press 2600#, min 2200#, AIR 3 BPM, ISIP 1600#,

 Broke down form w/2600#. Max press 2600#, min 2200#, AIR 3 BPM, ISIP 1600#, after 5 min 1100#, after 35 min 0#. Flshd w/30 BW. Swbd & rec all load & AR to pit. Swbd dry, no oil. TP 20%.
- 7-26-67 Swbd 14 BW, no oil 2 hrs, swbd dry. Acidized down the w/1000 gal 28% NM acid W/AS-5 inhibitor. Used 12 7/8" RCN balls. Max press 3300%, min 2000%, IR 4.8 BPM, ISIP 1900%, after 5 min 1200%, after 20 min 0%. Flahd w/31 BW. OI 1 hr. Ran swab 4 times, WKO & fld 120 BO, 84 BAR, 71 BW on 24/64" ck in 182 hrs. FTP 100 PSI (see test recorded 7-28-67 report).
- 7-27-67 Fld 74 BO, 73 BW on 24/64" ck in 24 hrs. FTP 25#.
- 7-28-67 Fld 1/4 BO, 37 BH on 24/64" ck in 24 hrs (test) ending 12:30) 7-26-67. 68.47

 MCFPD, 476 GOR, corr grav 41.2°. Fld 42 BO, 31 BH on 18/64" ck in 24 hrs end 7A 7-28-72. FTP 40//.
- 7-31-67 Fld 48 BO, 44 BW on 16/64" ck 48 hrs end 7A 7-30-67 & died. CI 24 hrs end 7A 7-31-67. TP 0%.
- 8-1-67 CI 8 hrs 3P 7-31-67. FU PU. Rel pkr. POH.
- 8-2-67 Ran 7" 23# CIBP & set at 7280'. Pumped 2 sx cmt on top BP. Calc PBTD 7268'. Cary Montoya perf plugged off.

The state of the s
BEFORE EXAMINER NUTTER
OIL CONSERVATION COMMISSION
EXHIBIT NO. 5
WINO. 4855
by Guht
Hearing Date 1/14/72
The state of the s

EXHIBIT 5 CASE NO. 4855 November 14, 1972

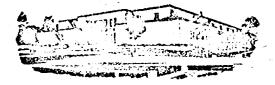
State of New Mexico

TELEPHONE 505-827-2748





ALEX J. ARMIJO COMMISSIONER



ommissioner of lublic l October 20, 1972

O. BOX 1148 SANTA FE, NEW MEXICO

Gulf Oil Company P. O. Drawer 1150 Midland, Texas 79701

Re: Request for Approval to Down-Hole Commingle Production in Gulf Oil Corporation's R. E. Cole (NCT-A) Well No. 10, Cary Montoya and South McCormack Silurian Pools, Lea County, New Mexico State Oil & Gas Lease No. B-3480-1

ATTENTION: Mr. J. L. Pike

Gentlemen:

Reference is made to your application dated October 16, 1972, requesting approval to Down-Hole Commingle Production in Gulf Oil Corporation's R. E. Cole (NCT-A) Well No. 10, Cary Montoya and South McCormack Silurian Pools. The well being located in the SW/4NW/4 of Section 16, Township 22 South, Range 37 East, Lea County, New Mexico.

You are hereby given approval to the above request. Any deviation from your proposed request will be reason to cancel approval. This approval is subject to like approval by the New Mexico Oil Conservation Commission

Please remit a Ten (\$10.00) Dollar filing fee.

Very truly yours

D/GRAHAM, Director Oil and Gas Department

AJA/RDG/s encls.

cc:

New Mexico Oil and Gas Accounting Commission New Mexico Oil Conservation Commission Lease No. B-3480-1

EXHIBIT 6 CASE NO. 4855 November 14, 1972

AE EXAMINITÉNUTTER INSERVATION COMME EXHIBIT NO. aring Date

State of New Mexico

TELEPHONE 505-627-2748



ALEX J. ARMIJO COMMISSIONER



Commissioner of Public Lands October 20, 1972

Cuse 4855

P. O. BOX 1148 SANTA FE, NEW MEXICO

Gulf Oil Company P. O. Drawer 1130 Bidland, Texas 79701

Ro: Request for Approval to Down-Hole Commingle Production in Gulf 011 Corporation's 8. K. Cole (NCT-A) Well No. 10, Cary Hontoya and South McCornack Silurian Pools, Lea County, New Mexico State Oil & Gas Lease No. B-3480-1

ATTENTION: Mr. J. L. Pike

Gontlemen:

hoference is made to your application dated October 16, 1972, requesting approval to Down-Hole Commingle Production in Gulf Oil Corporation's R. E. Cole (NCT-A) Hell Ro. 10, Cary Hontoya and South McCormack Silurian Pools. The wall being located in the SH/4MH/4 of Section 16, Township 22 South, Range 37 East, Las County, New Hexico.

You are hereby given approval to the above request. Any deviation from your proposed request will be reason to cancel approval. This approval is subject to like approval by the New Hexico Oil Conservation Commission.

Please remit a Ten (\$10.00) Dollar filing fee.

Very truly yours,

RAY D. GRAHAM, Director Oll and Cas Department

AJA/RDG/s

encls. cet

New Mexico Gil and Gas Accounting Commission New Mexico Oil Conservation Commission

Lessa No. B-3480-1

Gulf Oil Company - U.S.

EXPLORATION AND PRODUCTION DEPARTMENT

W. B. Hopkins
DISTRICT HANAGER

A. Hord
DISTRICT EXPLORATION
MANAGER

L. PIKE
DISTRICT PRODUCTION
HAMAGER

M. B. Mosetey
DISTRICT SERVICES HANAGER

MIDLAND DISTRICTOR 19 10 06 AM 172 P. O. Drawer 1150

October 16, 1972 STATE LAND. SANTA FE, N. M.

Commissioner of Public Lands State of New Mexico P. O. Box 1148 Santa Fe, New Mexico 87501

(Van 4855

Re: Request for Approval to Down-Hole Commingle Production in Gulf Oil Corporation's R. E. Cole (NCT-A) Well No. 10, Cary Montoya and South McCormack Silurian Pools, Lea County, State Oil and Gas Lease No. B-3480-1

Gentlemen:

Gulf Oil Corporation is requesting an Examiner Hearing with the New Mexico Oil Conservation Commission to consider its application for approval of down-hole commingling in the well bore of R. E. Cole (NCT-A) Well No. 10 oil production from the Cary Montoya and South McCormack Silurian Pools.

The applicant is owner and operator of the R. E. Cole (NCT-A) Lease covering, among other lands, all of Section 16 below 4000 feet, T22S, R37E, Lea County, New Mexico. Well No. 10 is located in Unit E, 2310 feet from the North Line and 990 feet from the West Line of Section 16.

The well is presently a single producer from the McCormack Silurian Pool with a current producing rate of approximately 22 barrels oil, 32 barrels water, 45 MCF gas and has a gas-oil ratio of 2000 to 1.

The well was drilled during July, 1967. A completion attempt was made in the Cary Montoya Pool at that time, however, testing indicated marginal production. A cast iron bridge plug was set at 7280 feet with 2 sacks of cement placed on top. The well was then completed in the South McCormack Silurian Pool.

In the opinion of the applicant the well now qualifies under Commission Rule 303-C for down-hole commingling. If you have no objection to this application, we would appreciate a letter so stating.

Yours very truly,

J. L. PIKE.

ROB: jmc



DIVISION OF GULF OIL CORPORATION

Quit Oil Company-U.S.

EXPLORATION AND PRODUCTION DEPARTMENT TED

W. B. Hopkins
District HANAGER

J. A. Hard DISTRICT EXPLORATION HANAGER

J. L. PIKO DISTRICT PRODUCTION MANAGER

M. B. Moseley
DISTRICT SERVICES MANAGER

OCT 19 10 05 Alfrid 2nd, Texes 79701

October 16, 1972

SANTA FE, N. M.

Oil Conservation Commission State of New Mexico Post Office Box 2088 Santa Fe, New Mexico 87501

Attention: Mr. A. L. Porter, Jr.

Care 4855

Re: Application of Gulf Oil Corporation for Approval of Down-Hole Commingling of Production in the R. E. Cole (NCT-A) Well No. 10, Cary Montoya and South McCormack Silurian Oil Pools, Lea County, New Mexico

Gentlemen:

Gulf Oil Corporation respectfully requests an Examiner Hearing to consider its application for approval of down-hole commingling in the well bore of R. E. Cole (NCT-A) Well No. 10 oil production from the Cary Montoya and South McCormack Silurian Pools.

In support of this application, the following information is submitted:

- (1) Applicant is owner and operator of the R. E. Cole (NCT-A)
 Lease covering, among other lands, all of Section 16 below
 4000 feet, T22S, R37E, Lea County, New Mexico, as more fully
 shown on the attached plat. Well No. 10 is located in Unit E,
 2310 feet from the North Line and 990 feet from the West Line
 of Section 16.
- (2) Pertinent Information
 - a) Well No. 10 is presently a single producer from the McCormack Silurian Pool.
 - b) Both zones, Montoya and Silurian, are classified as oil zones.
 - c) Upper zone, South McCormack Silurian, is presently being pumped. Lower zone, Cary Montoya, died on production test and would require pumping. The lower



A DIVISION OF GULF OIL CORPORATION

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SIATE LAN.
SANTA FE, N. L.

zone is sealed off by a cast iron bridge plug with cement on top. (Note attached drawing of Present Mechanical Installation.) Permission was never obtained to dual complete the well.

- d) Total daily oil production from both zones in the 7000' to 7999' interval bracket is less than 50 barrels oil per day.
- e) Neither zone produces more water than the combined oil limit of 50 barrels per day.
- f) The fluids from each zone are compatible with the fluids from the other.

The attached list of offset operators are being furnished a copy of this application.

Respectfully submitted,

3.000h

District Proration Engineer

ROB: jmc Attachments

cc: New Mexico Oil Conservation Commission P. O. Box 1980
Hobbs, New Mexico 88240

Commissioner of Public Lands State of New Mexico P. O. Box 1148 Santa Fe, New Mexico 87501

Oct 19 10 06 AH '72

Amerada Hess Corporation Drawer 817 Seminole, Texas 79360

Campbell & Hedrick
P. O. Box 401
Midland, Texas 79701

Carter Foundation Production Company P. O. Box 1036 Fort Worth, Texas 76101

Cities Service Oll Company P. O. Box 69 Hobbs, New Mexico 88240

Continental Oil Company P. O. Box 460 Hobbs, New Mexico 88240

Getty Oil Company P. O. Box 249 Hobbs, New Mexico 88240

Humble Oil & Refining Company P. O. Box 1600 Midland, Texas 79701 John H. Hendrix State 316 Central Building NIAFE, N. M. Midland, Texas 79701

Shell Oil Company P. O. Box 1509 Midland, Texas 79701

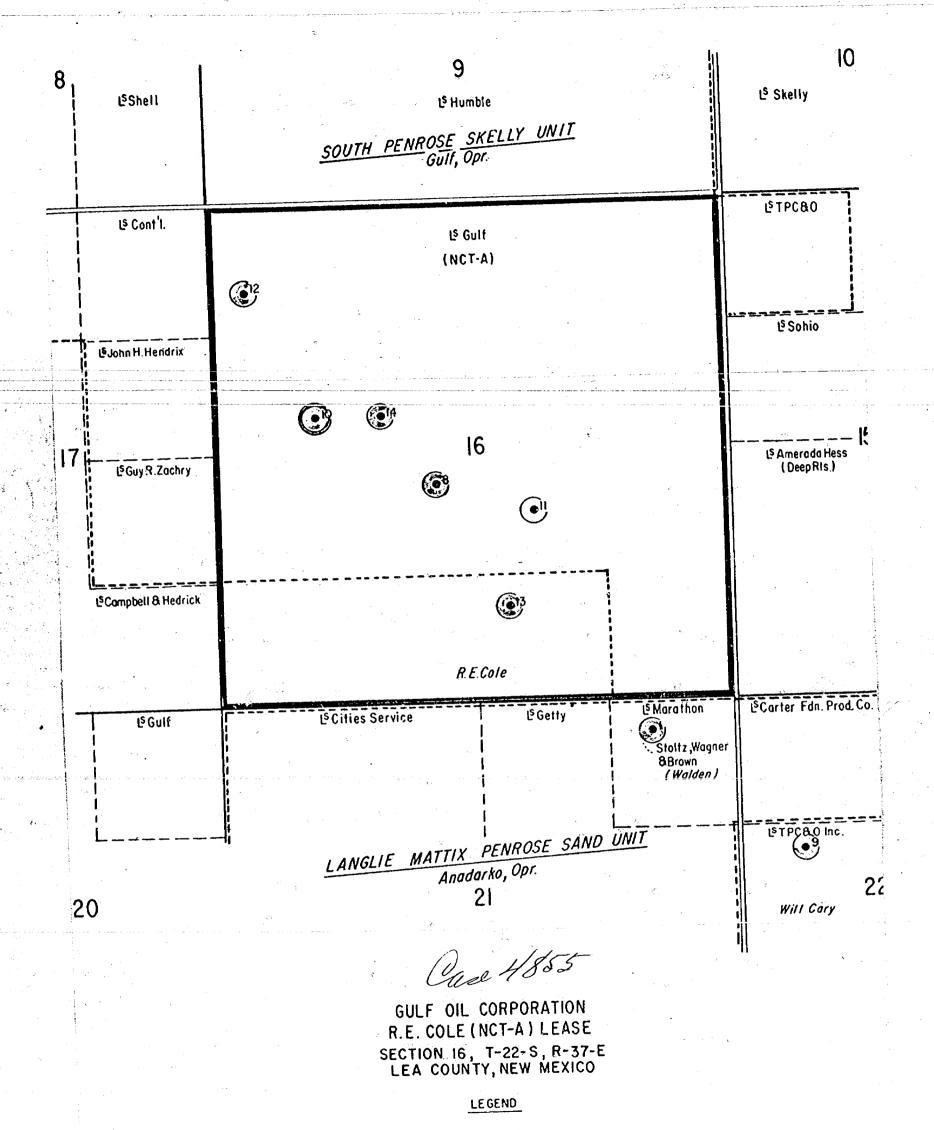
P. O. Box 1351 Midland, Texas 79701

Sohio Petroleum Gompany P. O. Box 3167 Midland, Texas 79701

Stoltz, Wagner & Brown P. O. Box 1714 Midland, Texas 79701

Texas Pacific Oil Company P. O. Box 1069 Hobbs, New Mexico 88240

Guy R. Zachry
P. O. Box 1685
Hobbs, New Mexico 88240



PERTINENT LEASE

PERTINENT WELL

CARY MONTOYA POOL COMPLETION

SOUTH McCORMACK SILURIAN POOL COMPLETION

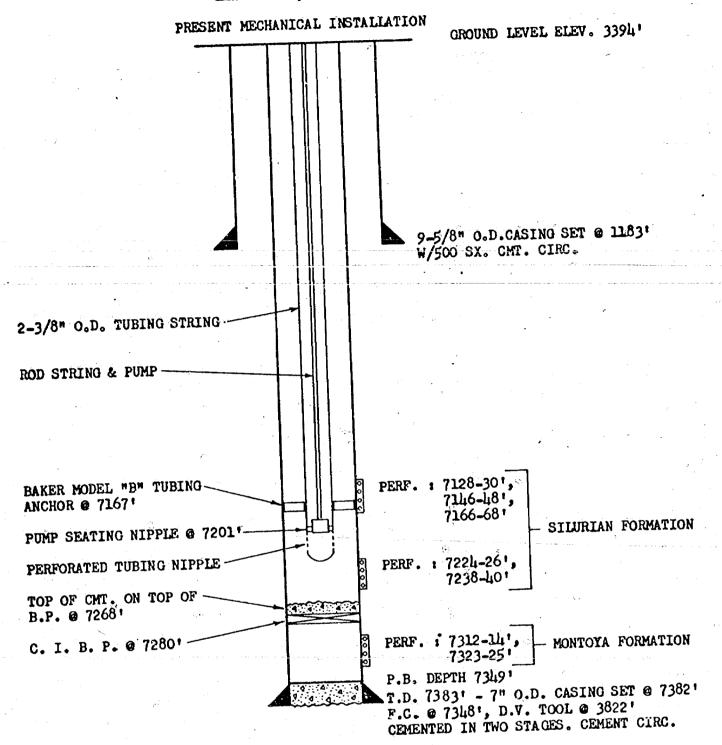
SCHEMATIC DIAGRAM

OULF OIL CORPORATION

R. E. COLE (NCT-A) WELL NO. 10

CART MONTOYA & SOUTH MCCORMACK OIL POOLS

LEA COUNTY, NEW MEXICO



Case 4855

Gulf Oil Company-U.S.

EXPLORATION AND PRODUCTION DEPARTMENT MIDLAND DISTRICT

W. B. Hopkins

A. Hord DISTRICT EXPLORATION

J. L. Pike DISTRICT PRODUCTIO MANAGER

October 16, 1972

OIL CONSERVATION COMM

Santa Fo

Case 4855

011 Conservation Commission State of New Mexico Post Office Box 2088 Santa Fe, New Mexico 87501

Attention: Mr. A. L. Porter, Jr.

Re: Application of Gulf Oil Corporation for Approval of Down-Hole Commingling of Production in the R. E. Cole (NCT-A) Well No. 10, Cary Montoya and South McCormack Silurian Oil Pools, Lea County, New Mexico

Gentlemen:

Gulf Oil Corporation respectfully requests an Examiner Hearing to consider its application for approval of down-hole commingling in the well bore of R. E. Cole (NCT-A) Well No. 10 oil production from the Cary Montoya and South McCormack Silurian Pools.

In support of this application, the following information is submitted:

- (1) Applicant is owner and operator of the R. E. Cole (NCT-A) Lease covering, among other lands, all of Section 16 below 4000 feet, T22S, R37E, Lea County, New Mexico, as more fully shown on the attached plat. Well No. 10 is located in Unit E, 2310 feet from the North Line and 990 feet from the West Line
- (2) Pertinent Information
 - Well No. 10 is presently a single producer from the McCormack Silurian Pool.
 - Both zones, Montoya and Silurian, are classified as b)
 - Upper zone, South McCormack Silurian, is presently being pumped. Lower zone, Cary Montoya, died on production test and would require pumping. The lower

DOCKET MAILED

Date 11-2-72

A DIVISION OF GULF OIL CORPORATION

zone is sealed off by a cast iron bridge plug with cement on top. (Note attached drawing of Present Mechanical Installation.) Permission was never obtained to dual complete the well.

- d) Total daily oil production from both zones in the 7000' to 7999' interval bracket is less than 50 barrels oil per day.
- e) Neither zone produces more water than the combined oil limit of 50 barrels per day.
- f) The fluids from each zone are compatible with the fluids from the other.

The attached list of offset operators are being furnished a copy of this application.

Respectfully submitted,

GULF OIL CORPORATION

R. O. Bobo

District Proration Engineer

ROB: jmc Attachments

cc: New Mexico Oil Conservation Commission P. O. Box 1980 Hobbs, New Mexico 88240

> Commissioner of Public Lands State of New Mexico P. O. Box 1148 Santa Pe, New Mexico 87501

OFFSET OPERATORS

Amerada Hess Corporation Drawer 817 Seminole, Texas 79360

Campbell & Hedrick P. O. Box 401 Midland, Texas 79701

Carter Foundation Production Company P. O. Box 1036 Fort Worth, Texas 76101

Cities Service Oil Company P. O. Box 69 Hobbs, New Mexico 88240

Continental Oil Company P. O. Box 460 Hobbs, New Mexico 88240

Getty 0il Company P. O. Box 249 Hobbs, New Mexico 88240

Humble Oil & Refining Company P. O. Box 1600 Midland, Texas 79701 John H. Hendrix 316 Central Building Midland, Texas 79701

Shell Oil Company P. O. Box 1509 Midland, Texas 79701

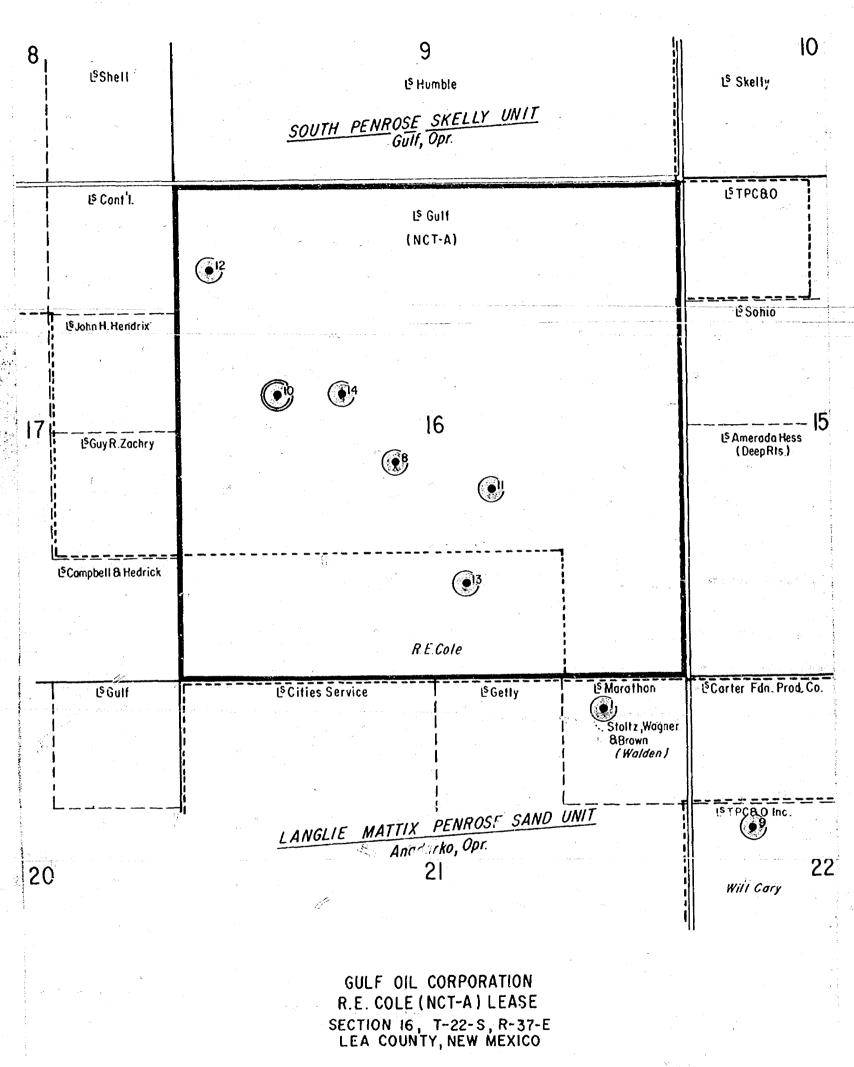
Skelly Oil Company P. O. Box 1351 Midland, Texas 79701

Sohio Petroleum Company P. O. Box 3167 Midland, Texas 79701

Stoltz, Wagner & Brown F. O. Box 1714 Midland, Texas 79701

Texas Pacific Oil Company P. O. Box 1069 Hobbs, New Mexico 88240

Guy R. Zachry P. O. Box 1685 Hobbs, New Mexico 88240



LEGEND

	PERTINENT LEASE
	PERTINENT WELL
Ŏ	CARY MONTOYA POOL COMPLETION
	SOUTH MCCORMACK SILURIAN POOL COMPLETION

SCHEMATIC DIAGRAM

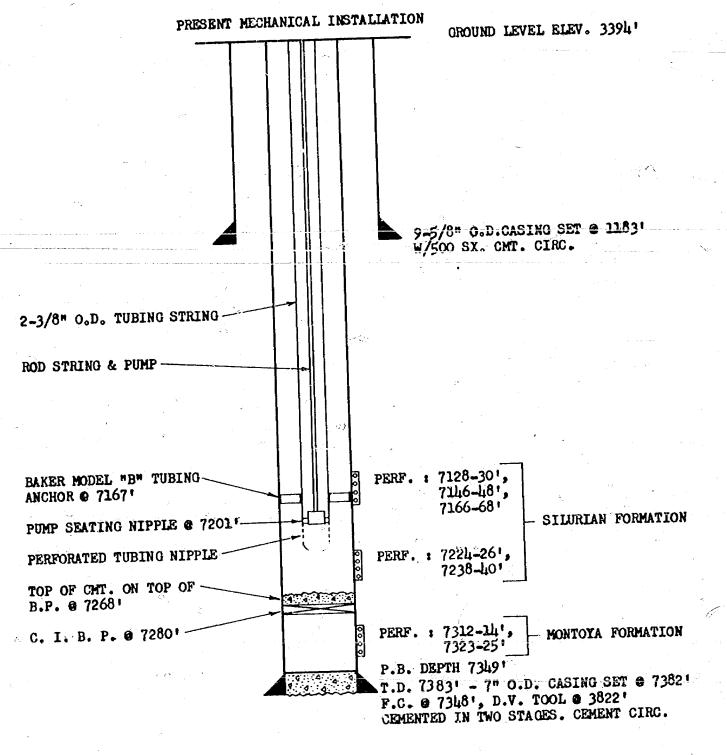
Case 4855

QULF OIL CORPORATION

R. E. COLE (NCT-A) WELL NO. 10

CART MONTOYA & SOUTH MCCORMACK OIL POOLS

LEA COUNTY, NEW MEXICO



dr/



BEFORE THE OIL CONSERVATION COMMISSION OF THE STATE OF NEW MEXICO

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

CASE NO. 4855

Order No. R-4444

APPLICATION OF GULF OIL CORPORATION FOR DOWNHOLE COMMINGLING, LEA COUNTY,

NEW MEXICO.

ORDER OF THE COMMISSION

BY THE COMMISSION:

This cause came on for hearing at 9 a.m. on November 14, 1972 at Santa Fe, New Mexico, before Examiner Daniel S. Nutter

NOW, on this day of November, 1972, the Commission, a quorum being present, having considered the testimony, the record, and the recommendations of the Fxaminer, and being fully advised in the premises,

FINDS:

- (1) That due public notice having been given as required by law, the Commission has jurisdiction of this cause and the subject matter thereof.
- (2) That the applicant, Gulf Oil Corporation, is the owner and operator of the R. E. Cole (NCT-A) Well No. 10 in Unit E of Section 16, Township 22 South, Range 37 East, NMPM, Lea County, New Mexico.

-2-Case No. 4855 Order No. R-

- (3) That when said well was drilled in 1967, swab tests in the Montoya formation indicated low marginal producing capacity in said formation, and said zone was sealed off and the well completed in the South McCormack-Silurian Pool.
- (4) That productivity in the South McCormack-Silurian zone of the subject well has declined to the economic limit of production.
- (5) That the applicant proposes to open the well to both the Silurian and Montoya formations and to commingle in the well-bore production from the South McCormack-Silurian and the Cary-Montoya Pools.
- (6) That analysis of the combined liquid hydrocarbon production from both of the aforesaid pools indicates the fluids are compatible with each other and that no peculiar production problems should result from the proposed downhole commingling.
- (7) That approval of the application will not cause waste nor impair correlative rights, and should extend the economic life of the well, thereby resulting in the recovery of oil that would otherwise be lost.
- (8) That the proposed downhole commingling should be approved.
- (9) That the commingled production should be allocated upon the basis of production tests to be submitted to the Santa Fe office of the Commission at the time of conversion.

IT IS THEREFORE ORDERED:

(1) That the applicant, Gulf Oil Corporation, is hereby authorized to complete its R. E. Cole (NCT-A) Well No. 10, located in Unit E of Section 16, Township 22 South, Range 37 East, NMPM, Lea County, New Mexico, in such a manner as to produce oil from the Cary-Montoya and South McCormack-Silurian Oil Pools through one string of tubing, commingling in the well-bore the production from both pools.

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- That immediately upon completion of the above-described well in both zones, the operator shall furnish the Santa Fe office of the Commission production tests for the combined zones of the well, whereupon the Commission shall establish a formula for allocating the commingled oil production and commingled gas production to each zone.
- (3) That the commingling in the well-bore authorized by this order shall continue only so long as the commingled production of the two zones does not exceed 50 barrels of oil per day nor 50 barrels of water per day.
- That the applicant shall complete, operate, and produce said well in accordance with the provisions of Rule 112-A of the Commission Rules and Regulations insofar as said rule is not inconsistent with this order.
- (5) That jurisdiction of this cause is retained for the entry of such further orders as the Commission may deem necessary.

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