CASE 6440: CAULKINS OIL COMPANY FOR A DUAL COMPLETION AND DOWNHOLE COMMINGLING, AND ARRIBA COUNTY, NEW MEXICO

# CASE NO.

6440

APPLICATION,
Transcripts,
Small Exhibits,

ETC.

#### STATE OF NEW MEXICO ENERGY AND MINERALS DEPARTMENT OIL CONSERVATION DIVISION State Land Office Building 3 Santa Fe, New Mexico 31 January 1979 **EXAMINER HEARING** 5 6 IN THE MATTER OF: 7 CASE Application of Caulkins Oil Company, for ) 6440 a dual completion and downhole commingling) 8 Rio Arriba County, New Mexico. 9 10 11 BEFORE: Richard L. Stamets 12 <sup>13</sup> TRANSCRIPT OF HEARING 14 APPEARANCES 15 For the Oil Conservation Lynn Teschendorf, Esq. Legal Counsel for the Division 16 Division: 17 State Land Office Building Santa Fe, New Mexico 87503 18 W. Thomas Kellahin, Esq. 19 For the Applicant: KELLAHIN & KELLAHIN 20 500 Don Gaspar Santa Fe, New Mexico 87501 21 23 24 25

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MR. STAMETS: We will call the next case, 6440.

MS. TESCHENDORF: Case 6440, Application of the
Caulkins Oil Company for a dual completion and downhole commingling, Rio Arriba County, New Mexico.

MR. KELLAHIN: Tom Kellahin, Santa Fe, New Mexico, appearing on behalf of Caulkins Oil Company. If the Examiner please, I'd like the record to reflect that I have the same witness. He's previously qualified and he is still under oath.

MR. STAMETS: The record will so show.

#### CHARLES VERQUER

being called as a wicness and having been duly sworn upon his oath, testified as follows, to-wit:

#### DIRECT EXAMINATION

#### BY MR. KELLAHIN:

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Q Mr. Verquer, will you refer to what we have marked as Exhibit Number One and identify it and explain what you're seeking to accomplish?

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excuse	me	for the Mesaverde and Dakota zones from 1959
through	h 1977,	for our Breech F-8 Well.
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and Dal	kota as	to the gas and oil production simply a mathe-
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A Breech F-4 is in Unit A of Section 33, 27

north 6 west, which is just one mile west of this well. The Breech 64 is in Unit A of Unit 1 -- excuse me, Section 1, 26 north 6 west. 341 is in Unit B, Section 21, 26 north 6 west.

Q If you will, identify Exhibit Number Six.

A Number Six is a proposed dual completion after commingling of the wells. We have a packer now set in the 7 and 5/8 Baker Model FA Production Packer at 4600. I would propose to run seals on the 2 and 3/8 tubing to set down in that packer and extend on down to the Dakota perforations so that the commingled production would be produced through 2 and 3/8 inch tubing to the surface.

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2	is being used for the Mesaverde production; and then run
3	2 3/8 tubing or pull 2 3/8 tubing and remove the seals, then
4	run it back in for the commingled production.
5	Q Were Exhibits One through Seven prepared by
6	you?
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11	A It will.
12	MR. KELLAHIN: We move the introduction of
13	Exhibits One through Seven.
14	MR. STAMETS: These Exhibits will be admitted.
15	EXAMINATION
16	BY THE EXAMINER:
17	Q Mr. Verquer, did you say that the ownership of
18	the Mesaverde and Dakota was the same?
19	A Yes, also the Pictured Cliffs.
20	MR. STAMETS: Any other questions of this
21	witness? He may be excused. Anything further in this case?
22	It will be taken under advisement.
23	(Hearing Concluded.)
24	
25	

#### REPORTER'S CERTIFICATE

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

STEPANIE XANTHULL, C.S.R.

I do hereby certify that the foregoing is a complete of the condition in t

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	, New Mexico
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BEFORE: Richard L. Stamets	
TRANSCRI	PT OF HEARING
APPE	ARANCES
For the Oil Conservation	Lynn Teschendorf, Esq.
Division:	Legal Counsel for the Divisio
DIVISION.	State Land Office Building
	Santa Fe, New Mexico 87503
For the Applicant:	W. Thomas Kellahin, Esq.
	KELLAHIN & KELLAHIN
	500 Don Gaspar
	Santa Fe, New Mexico 87501
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clean, so consequently we have some years only a million cubic feet of production from the Pictured Cliffs. I propose to -- we propose to commingle the Mesaverde and Dakota in this well the same as we did in the previous case and then set the seals back in the packer, which would essentially dual complete the well as a Pictured Cliffs commingled Mesaverde-Dakota well.

Q How is that going to improve the production from the Pictured Cliffs?

A I will be able to run a larger string of tubing in there, which I propose to run a string one inch non-offset as we usually use for our Pictured Cliffs productions and be able to keep that well clean. The direct offset wells are all pretty fair Pictured Cliffs wells and the wells should produce in the neighborhood of 100,000 a day.

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621 Old Santa Fe Trail - Suite 7
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## STEFANIE XANTHULL, C.S.R.

Examiner

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Oil Conservation Division



# STATE OF NEW MEXICO ENERGY AND MINERALS DEPARTMENT OIL CONSERVATION DIVISION

JERRY APODACA GOVERNOR NICK FRANKLIN SECRETARY

February 21, 1979

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

Mr. Tom Kellahin Kellahin & Kellahin Attorneys at Law	Re:	CASE NO. 6440 ORDER NO. R-5934
Post Office Box 1769 Santa Fe, New Mexico		Applicant:
	7 · · · · · · · · · · · · · · · · · · ·	Caulkins Oil Company
Dear Sir:		
		opies of the above-referenced ered in the subject case.
Yours very truly,		
JOE D. RAMEY Director		
JDR/fd		
Copy of order also ser	nt to:	
Hobbs OCC X Artesia OCC X Aztec OCC X		
Other		

#### STATE OF NEW MEXICO ENERGY AND MINERALS DEPARTMENT OIL CONSERVATION DIVISION

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

> CASE NO. 6440 Order No. R-5924

APPLICATION OF CAULKINS OIL COMPANY FOR A DUAL COMPLETION AND DOWNHOLE COMMINGLING, RIO ARRIBA COUNTY, NEW MEXICO.

#### ORDER OF THE DIVISION

#### BY THE DIVISION:

This cause came on for hearing at 9 a.m. on January 31, 1979, at Santa Fe, New Mexico, before Examiner Richard L. Stamets.

NOW, on this 20th day of February, 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, Caulkins Oil Company, seeks authority to complete its Breech F Well No. 8, located in Unit A of Section 34, Township 27 North, Range 6 West, NMPM, Rio Arriba County, New Mexico, as a dual completion (conventional) to produce gas from the Pictured Cliffs formation through one string of tubing and to produce commingled Mesaverde and Dakota gas production through a second string of tubing.
- (3) That from the Mesaverde and Dakota zones, the subject well is capable of low marginal production only.
- (4) 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. 6440 Order No. R-5924

- (5) 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.
- (6) 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 Aztec district office of the Division any time the subject well is shut-in for 7 consecutive days.
- (7) That in order to allocate the commingled production to each of the commingled zones in the subject well, 21 percent and 23 percent of the commingled gas and condensate production, respectively, should be allocated to the Mesaverde zone, and 79 percent and 77 percent of the commingled gas and condensate production, respectively, to the Dakota zone.
- (8) That Division Order No. R-1430, which authorized the triple completion of the subject well, should be superseded.
- (9) That the mechanics of the proposed dual completion are feasible and in accord with good conservation practices.
- (10) That approval of the subject application will prevent waste and protect correlative rights.

#### IT IS THEREFORE ORDERED:

(1) That the applicant, Caulkins Oil Company, is hereby authorized to complete its Breech F Well No. 8, located in Unit A of Section 34, Township 27 North, Range 6 West, NMPM, Rio Arriba County, New Mexico, as a dual completion (conventional) to produce gas from the Pictured Cliffs formation through one string of tubing and to produce Mesaverde and Dakota gas production, hereby authorized to be commingled in the wellbore, through a second string of tubing with separation of the Pictured Cliffs zone from the other zones achieved by means of a packer set at approximately 4600 feet.

PROVIDED HOWEVER, that the applicant shall complete, operate, and produce said well in accordance with the provisions of Rule 112-A of the Division Rules and Regulations insofar as said rule is not inconsistent with this order;

PROVIDED FURTHER, that the applicant shall take packer leakage tests upon completion and annually thereafter during the Annual Deliverability Test Period for gas wells in Northwest New Mexico.

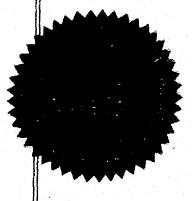
Case No. 6440 Order No. R-5924

- (2) That 21 percent and 23 percent of the commingled gas and condensate production, respectively, shall be allocated to the Mesaverde zone and 79 percent and 77 percent of the commingled gas and condensate production, respectively, shall be allocated to the Dakota zone.
- (3) That the operator of the subject well shall immediately notify the Division's Aztec 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 Division Order No. R-1430 is hereby superseded.
- (5) That jurisdiction of this cause is retained for the entry of such further orders as the Division may deem necessary.

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

OIL CONSERVATION DIVISION

DOE D. RAMEY Director



# CAULKINS OIL COMPANY Case No.

#### Proposal

Commingle Mesa Verde and Dakota Zones in:

Breech F

8

Unit A

Sec. 27N 6W

and Dual complete in Pictured Cliffs.

All zones marginal.

Ownership and all working interests are common for this well.

#### Exhibit # 1

Section map showing well and all offset wells.

#### Exhibit # 2

Plat showing well location and direct offset wells in Section's 27, 34, west half 26, and 35 all in 27N 6W, Section 3, and west half Section 2 in 26N 6W, Rio Arriba County, New Mexico.

#### Exhibit # 3

Tabulation of all shut in pressures, cumulative yearly gas and oil production, 1959 than 1977.

Proposed percentage breakdown for each zone.

#### Exhibit # 4

Pressure and production curves for Mesa Verde zone from tabulation exhibit No. 3.

#### Exhibit # 4 A

Pressure and production curves for Dakota zone from tabulation exhibit # 3.

#### Exhibit # 5

Production records previous and after Commingling Mesa Verde and Dakota zones on following wells.

Breech E	`` 64	Unit A	Sec. 1	and the second of the second o
Breech F	4	Unit A	Sec. 33	27N 6W
Breech D	3/.1	Unit B	Sec. 21	26N 6W

#### Exhibit # 6

Drawing of Proposed Bual Completion.

#### Exhibit # 7

Mechanic's

# CAULKINS OIL COMPANY Case No.

#### **Proposal**

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#### Exhibit # 4 A

Pressure and production curves for Dakota zone from tabulation exhibit # 3.

#### Exhibit # 5

Production records previous and after Commingling Mesa Verde and Dakota zones on following wells.

Breech E

64

Unit A

Sec. 1 26N 6W

Breech F
Breech D

4 341 Unit A Unit B Sec. 33 27N 6W Sec. 21 26N 6W

#### Exhibit # 6

Drawing of Proposed Dual Completion.

#### Exhibit # 7

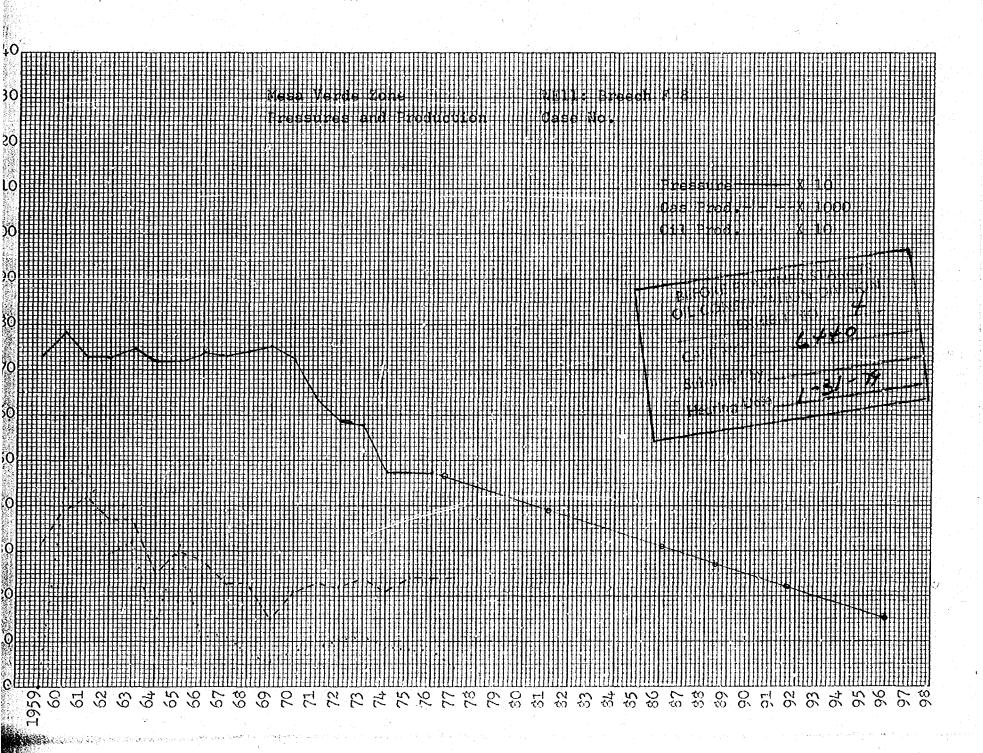
Mechanic's

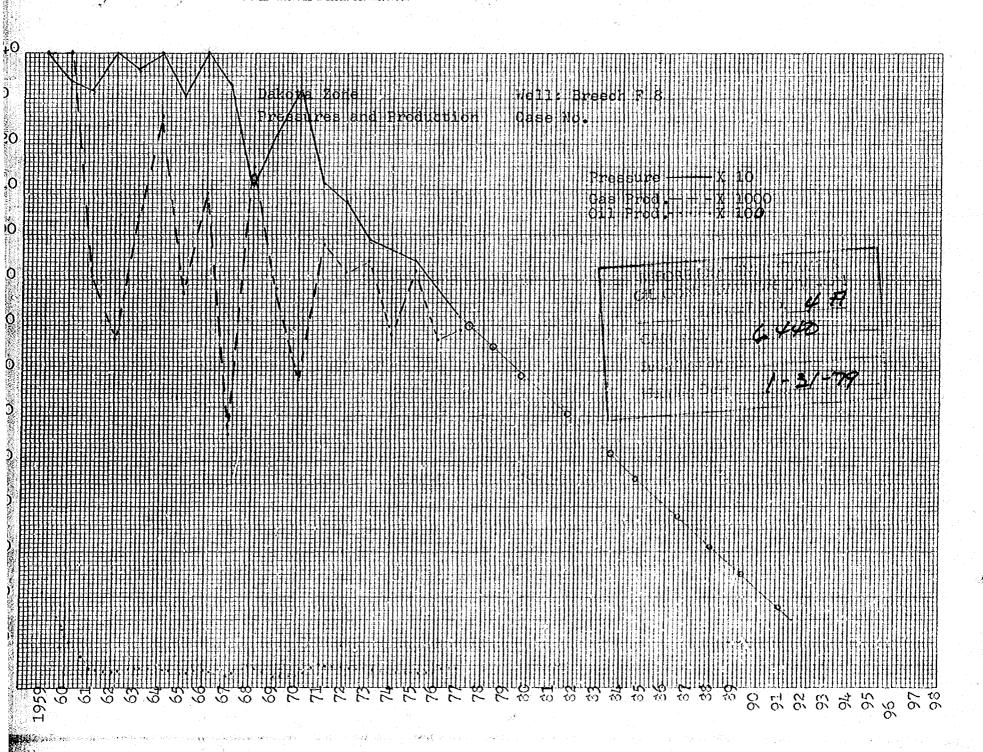
CAULKINS OIL COMPANY
Breech F 8
Section 34 27N 6W Unit A
Rio Arriba County, New Mexico El Naso Paso El Paso DO 165 46 1473 P 92 PE - 196 10 126 MD 125 Caulkins El Paso Caulkins Cauldins PMD O 8 8 002 MD WG WG PC 04 Caulkins 10 X 10 TO 19 INCH • 279 X 10 INCHES Pro Ost, Caulkins Caulkins 75 R 0 73 PEM 109 D@ 113 K. Pictured Cliffs
Pictured Cliffs - Mesa Verde pm Dakota omd md Pictured Cliffs - Mesa Verdeck Dakota Mesa Verde - Dakota Pictured Cliffs - Chacra - Mesa Verde pcn

BREECH F 8 Unit A Section 34 27N 6W Yearly Production and Pressures

	Mesa Ver	de Zone			Dakota Zone			
Date	Pressure	Gas Prod.	Cil Prod.	Pressure	Gas Prod.	Oil Prod.		
1959	732	31,413	0	2037	149,265	2222		
1960	782	38,723	: <u>44</u> 0	1341	201,680	1173		
1961	728	41,712	483	1320	91,205	439		
1962	727	36 <b>,</b> 955	293	1482	76,152	344		
1963	727	37,145	320	1362	104,520	441		
1964	748	25,259	136	1503	126,402	439		
1965	720	29,765	310	1306	87,357	301		
1688	736	$\tilde{27},7\tilde{13}$	108	1443	108,726	2.04 2.4.41		
067	729	22 672		1220	100,720	304 371 234		
324		22,572	117	1330	⇒ 55,586	234		
1900	740	23,160	73	1117	115,336	502		
1969	750	14,542	58	1223	88,184	235		
<b>.97</b> 0	722	21,051	79	1318	67,900	245		
971	629	22,501	82	1114	98,403	245 499		
972	586	22,074	102	1.075	92,450	490		
.973	579	23,695	112	987	93,815	440		
971	472	21,103	88		77,916	329		
075		23,563	77	946	91,773	358		
9 <b>7</b> 5 976 977	472	23,827	81	940		220		
:7 (U	416	27,027		300	77,495	328		
711		24,383	40	820	79,319	433		
	Cum. Tota	1 511,156	2999		1,883,304	9826		

as production 21% Mesa Verde and 79% Dakota il production 23% Mesa Verde and 77% Dakota





Case No.

Production records for same period before Cummingling as period after Cummingling thru November 1978.

733-77-6

Breech F 4

Breech E 64

mmingled May, 1978

Commingled April, 1978

B 21-26-6 Breech D 341 Commingled April 1, 1978

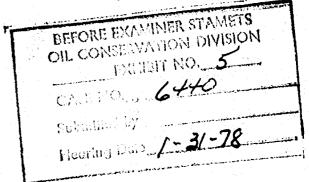
onth	1977 Co Produc		1978 Co Produc	ommingled ction	1977 Co	ombined ction	1978 Com	mmingled tion	1977 Com Product		1978 Commingled Production		
	Gas	Oil	Gas	Oil	Gas	Oil	Gas	Oil	Gas	Oil	Gas	Oil	
oril iy ine ily ig. ipt.	7848 11,238 10,661 8741 10,745 11,095	78 50 60 21 87 32	6957 6922 7704 4144 -0- 12,390	130 68 79 6 -0- 122	6231 7663 6888 7426 6102 7383 7374	16 14 15 20 12 16 8	16,116 13,456 12,137 11,013 5288 10,618 13,786	89 45 43 34 3 54 53	11,255 10,563 11,345 8424 9756 9903 11,305 12,747	78 70 50 45 86 18 98 164	9673 8884 11,960 10,394 7996 7997 11,573 12,203	89 84 97 75 41 56 23	
im •	60,328	328	38,117	405	49,067	101	82,384	321	85,298	609	80,680	542	

Mechanical problems and high line pressure during Sept and Oct 1978 affected production
November production indicates well production normal.

Commingled May, 1978

Obstruction in tubing affected production before Commingling

High line pressure's during Aug. and Sept , 1978 affected production. October and November production normal.



#### CAULKINS OIL COMPANY

Case No. Breech F 8

#### Exhibit # 7

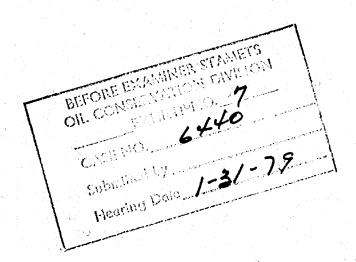
#### Mechanic's

3/4" EUE tubing now in wlll too Pictured Cliffs will be pulled and salvaged. (Tubing now plugged, so enable to clean well.)

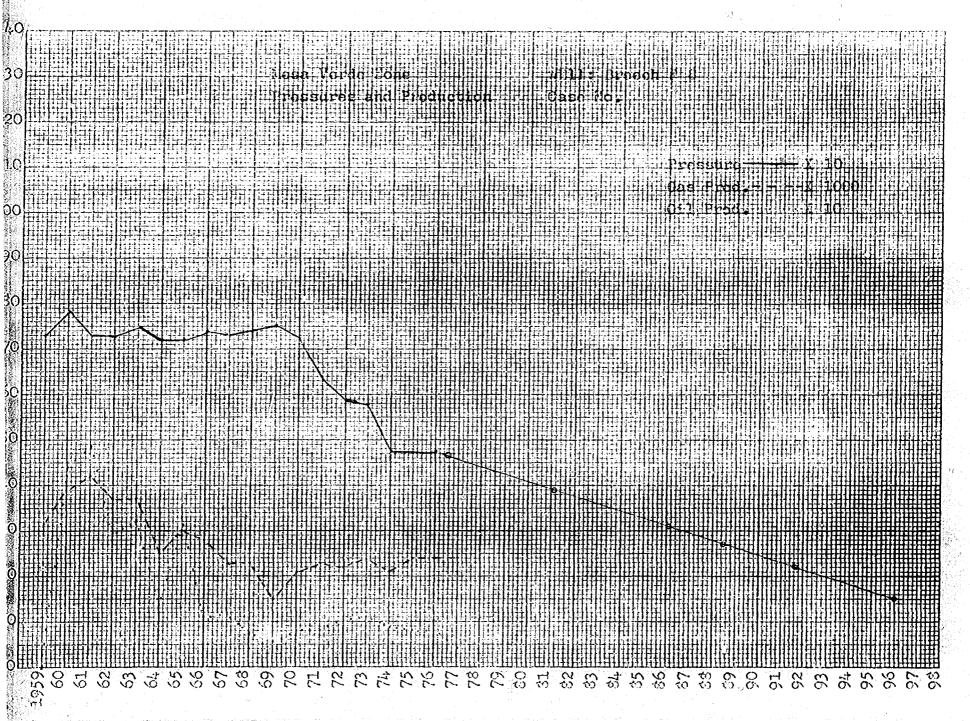
 $1\frac{1}{4}$ " EUE tubing now in well to Packer @ 4600' will be pulled and salvaged.

2 3/8" tubing now in well to Dakota will be pulled, Seal assy. now in Packer @ 7370' will removed then. 2 3/8" tubing will be run to Dakota Perforations with Seals in Model F A Packer @ 4600'.

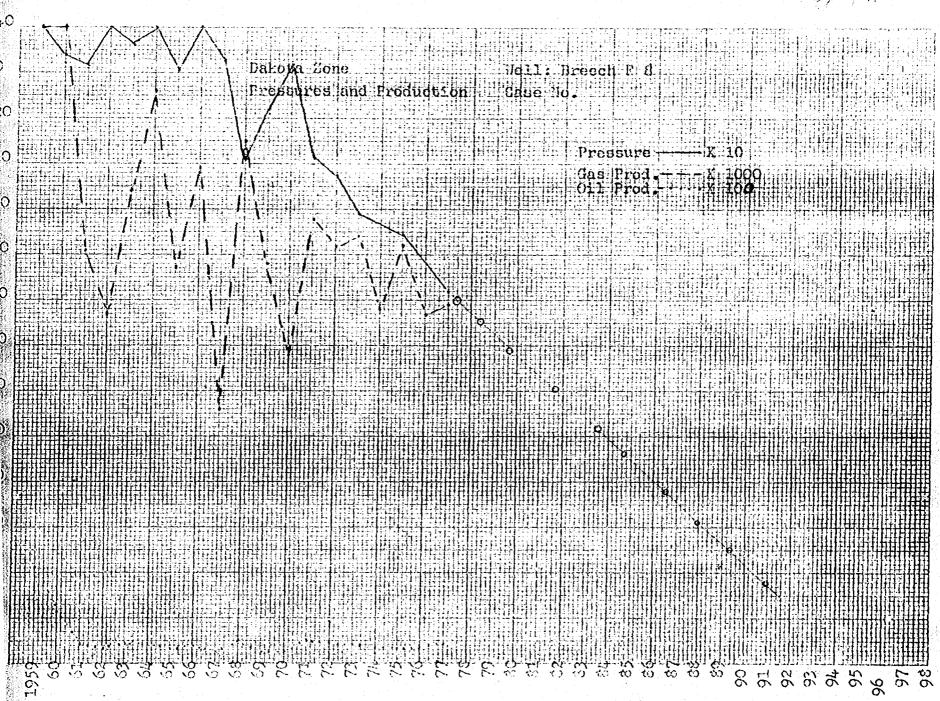
Commingled Mesa Verde and Dakota will flow to surface thru 2 3/8" tubing. 1" tubing NU 10 RD Thd tubing will be run to Pictured Cliffs Perforations.



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5442 Gy 4A



Case No. 6440

Production records for same period before Cummingling as period after Cummingling thru Novermber 1978.

Mesa Verde-Dakota Commingling Order No. R-5649

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	Gas	Oil	Gas	Oil	Gas	Oil	Gas	Oil	Gas	Oil	Gas	Oil
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6	50,328	328	38,117	405	49,067	101	82,384	321	85,298	609	80,680	542

Mechanical problems and high line pressure during Sept and Oct 1978 affected production November production indicates well production normal.

A- 33 - 27-600

Obstruction in tubing affected production before Commingling

A-1-26- 600

High line pressure's during Aug. and Sept, 1978 affected production. October and November production normal.

B-21-26.60

# CAULKINS OIL COMPANY Case No. Breech F 8

#### Exhibit # 7

Mechanic's

3/4" EUE tubing now in wlll too Pictured Cliffs will be pulled and salvaged. (Tubing now plugged, so @nable to clean well.)

 $1\frac{1}{4}$ " EUE tubing now in well to Packer @ 4600' will be pulled and salvaged.

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Commingled Mesa Verde and Dakota will flow to surface thru 2 3/8" tubing. 1" tubing NU 10 RD Thd tubing will be run to Pictured Cliffs Perforations.

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BREECH F 8
Unit A Section 34 27N 6W
Yearly Production and Pressures

Case No.

	Mesa Verde Zone			Dakota Zone		
Date	Pressure	Gas Prod.	Oil Prod.	Pressure	Gas Prod.	Oil Prod.
1959	732	31,413		2037	149,265	2222
1960	782	38,723	<i>4</i> 40	1341	201,680	1173
1961	728	41,712	483	1320	91,205	439
1962	727	36,955	293	1482	76,152	344
1963	727	37,145	320	1362	104,520	441
1964		25,259	136	1503	126,402	439
1965	748 720	29,765	310	1306	87,357	304
1966	736	27,713	108	1443	108,726	ેર્કે 7ેર્ને
1962 1963 1964 1965 1966 1967 1968 1969	729	22,572	117	1330	55,586	234
1968	740	23,160	73	1117	115,336	502
1969	<b>7</b> 50	14,542	58	1223	88,184	235
1970	722	21,051	79	1318	67,900	245
1971	629	22,501	82	$1\overline{1}14$	98,403	$\tilde{i}$ , $\tilde{0}$
1971 1972	586	22,074	102	1075	92,450	499 490
<b>l</b> 973	579	23,695	112	987	93,815	440
1974	472	21,103	88		77,916	329
1975		23,563	77	946	91,773	2 <del>2</del> 2 2 2
1975 1976	472	23,827	81	740	77,495	358 328
977		24,383	40	820	79,319	433
		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		0.20	17,72	477
	Cum, Tota	1 511.156	2999		1.683.304	9826

las production 21% Mesa Verde and 79% Dakota

Dockets Nos. 5-79 and 6-79 are tentatively set for hearing on February 14 and 28, 1979. Applications for hearing must be filed at least 22 days in advance of hearing date.

## DOCKET: EXAMINER HEARING - WEDNESDAY - JANUARY 31, 1979

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

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

- In the matter of the hearing called by the dil Conservation Division on its own motion to permit In the matter of the hearing called by the (ii) Conservation Division on its own motion to permit Helton Engineering & Geological Services, Inc., Travelers Indemnity Company, and all other interested parties to appear and show cause why the Brent Well No. 1 located in Unit M of Section 29 and the County, New Mexico, should not be plugged and abandoned in Township 13 North, Range 6 East, Sandoval plugging program. CASE 6415:
- (Continued from January 17, 1979, Examiner Hearing)

Application of Yates Petroleum Corporation for compulsory pooling, Lea County, New Mexico. Application of Yates Petroleum Corporation for compulsory pooling, Lea County, New Mexico. Applicant, in the above-styled cause, seeks an order pooling all mineral interests in the Wolfcamp thru Devonian formations underlying the W/2 of Section 20, Township 14 South, Range 36 East, Lea to be considered will be the cost of drilling and completing said well and the allocation of the County, New Mexico, 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 will be the designation of applicant as operator of the well and a charge for risk involved in drilling said well.

CASE 6419: (Continued from January 17, 1979, Examiner Hearing)

Application of Yates Petroleum Corporation for a dual completion, Eddy County, New Mexico. Application of Yates Petroleum Corporation for a dual completion, Eddy County, New Mexico.

Applicant, in the above-styled cause, seeks approval for the dual completion (conventional) anning JC Well No. 1 located in Unit B of Section 7; Township 18 South, Range 26 East, Eagle Creek Field. Eddy County. New Mexico. to produce was from the Straim formation through the casing-tubing Field, Eddy County, New Mexico, to produce gas from the Strawn formation through the casing-tubing annulus and from the Morrow formation through tubing.

- CASE 6423: Application of Yates Petroleum Corporation for an unorthodox well location, Eddy County, New Mexico. Application of Yates Petroleum Corporation for an unorthodox well location, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks approval for the unorthodox location of its Jackson AT Well No. 9 located 660 feet from the South and West lines of Section 13, Township 17 South, Range 25 Fast. Eddy County. New Mexico. to test the Wolfcamp Pennsylvanian and Mississinnian formations East, Eddy County, New Mexico, to test the Wolfcamp, Pennsylvanian, and Mississippian formations, the S/2 of said Section 13 to be dedicated to the well.
- Application of Yates Petroleum Corporation for an unorthodox well location, Eddy County, New Mexico. Application of Yates Petroleum Corporation for an unorthodox well location, Eddy County, New Mexico Applicant, in the above-styled cause, seeks approval for the unorthodox location of its Superior Fed. KJ Well No. I located 990 feet from the North and West lines of Section of its Superior Range 29 East, Eddy County, New Mexico, to test the Wolfcamp and Pennsylvanian formations, the N/2 of said Section 7 to be dedicated to the well. CASE 6425:
- Application of T. B. Knox Estate for exception to Order No. R-111-A, Eddy County, New Mexico. Application of T. B. Knox Estate for exception to Order No. R-111-A, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks an exception to the casing/cementing rules for the Oil-Potash Area as promulgated by Order No. R-111-A to permit its Lucia Brookes Well No. 2 located in Unit X of Section 14. Township 18 South. Rance 30 East. Eddy County. New Mexico. to be completed in Potash Area as promulgated by Order No. R-111-A to permit its Lucia Brookes Well No. 2 located in Unit K of Section 14, Township 18 South, Range 30 East, Eddy County, New Mexico, to be completed in the following manner: set surface casing and circulate cement; eliminate salt protection string; and do not circulate cement on production casing. and do not circulate cement on production casing. CASE 6426:
- Application of C. W. Trainer for an unorthodox gas well location, Lea County, New Mexico. Application of C. W. Trainer for an unorthodox gas well location, Lea County, New Mexico.

  Applicant, in the above-styled cause, seeks approval for the unorthodox location of a well to be located 660 feet from the North and West lines of Section 24, Township 20 South, Range 32 East, South Salt Lake-Morrow Pool, Lea County, New Mexico, the N/2 of said Section 24 to be dedicated to the well.
- CASE 6427: Application of Caribou Four Corners, Inc., for an unorthodox well location, San Juan County, New Mexico. Applicant, in the above-styled cause, seeks approval for the unorthodox location of Caribou/Kirtland Well No. 1 to be located 1214 feet from the North line and 650 feet from the East Mexico, the E/2 NE/4 to be dedicated to the well.
- Application of Nobil Oil Corporation for the amendment of Order No. R-5801, Lea County, New Mexico. Application of Mobil Oil Corporation for the amendment of Order No. R-5801, Lea County, New Mexico.

  Applicant, in the above-styled cause, seeks the amendment of Order No. R-5801 to delete the requirements for lined tubing in injection wells in the North Vacuum Abo East Pressure Maintenance

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- CASE 6429: Application of Zia Energy, Inc., for approval of infill drilling, Lea County, New Mexico.

  Applicant, in the above-styled cause, seeks a finding that the drilling of its Elliott State Well

  No. 2 to be located in Unit B of Section 34, Township 20 South, Range 36 East, Eumont Gas Pool,

  Lea County, New Mexico, is necessary to effectively and efficiently drain that portion of the

  proration unit which cannot be so drained by the existing well, and further seeks approval of a

  waiver of existing well-spacing requirements.
- CASE 6430: Application of Phoenix Resources Company for a unit agreement, Chaves County, New Mexico.

  Applicant, in the above-styled cause, seeks approval for its Buckhorn Canyon Unit Area comprising 23,009 acres, more or less, of Federal and state lands in Township 19 South, Ranges 19 and 20 East, Chaves County, New Mexico.
- CASE 6431: Application of HNG Oil Company for compulsory pooling, Eddv County, New Mexico. Applicant, in the above-styled cause, seeks an order pooling all mineral interests in the Pennsylvanian formation underlying the N/2 of Section 35, Township 23 South, Range 28 East, Eddy County, New Mexico, 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 6432: Application of John Yuronka for compulsory pooling, Lea County, New Mexico. Applicant, in the above-styled cause, seeks an order pooling all mineral interests in the Langlie Mattix Pool underlying the NE/4 NW/4 and the SE/4 NW/4 of Section 29, Township 24 South, Range 37 East, Lea County, New Mexico, to form two 40-acre units, each 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 wells 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 wells and a charge for risk involved in drilling said wells.
- CASE 6433: Application of Cities Service Company for compulsory pooling, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks an order pooling all mineral interests in the Pennsylvanian formations underlying the S/2 of Section 8, Township 23 South, Range 28 East, Eddy County, New Mexico, 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 6434: Application of Amerada Hess Corporation for approval of infill drilling, Lea County, New Mexico.

  Applicant, in the above-styled cause, seeks a finding that the drilling of its State "O" Well No.

  5 to be located in Unit H of Section 30, Township 19 South, Range 37 East, Eumont Gas Pool, Lea
  County, New Mexico, is necessary to effectively and efficiently drain that portion of the proration
  unit which cannot be so drained by the existing well, and further seeks approval of a waiver of
  existing well-spacing requirements.
- CASE 6435: Application of Amerada Hess Corporation for approval of infill drilling, Lea County, New Mexico.

  Applicant, in the above-styled cause, seeks a finding that the drilling of its W. A. Weir "B" Well
  No. 3 located in Unit B of Section 26, Township 19 South, Range 36 East, Eumont Gas Pool, Lea County,
  New Mexico, is necessary to effectively and efficiently drain that portion of the proration unit
  which cannot be so drained by the existing well, and further seeks approval of a waiver of existing
  well-spacing requirements.
- CASE 6436: Application of Amerada Hess Corporation for approval of infill drilling, Lea County, New Mexico.

  Applicant, in the above-styled cause, seeks a finding that the drilling of its State "U" Gas Com Well No. 2 to be located in Unit C of Section 32, Township 19 South, Rauge 37 East, Eumont Gas Pool, Lea County, New Mexico, is necessary to effectively and efficiently drain that portion of the provation unit which cannot be so drained by the existing well, and further seeks approval of a waiver of existing well-spacing requirements.
- CASE 6437: Application of Curtis Little for approval of infill drilling and a non-standard proration unit, San Juan County, New Mexico. Applicant, in the above-styled cause, seeks a finding that the drilling of a well to be located 1085 feet from the South line and 285 feet from the West line of Section 12, Township 28 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. Applicant further seeks rescission of Order No. R-4556 and approval of a 344.36-acre non-standard gas proration unit comprising all of Section 11, and Lot 4 and the SW/4 SW/4 of Section 12 for said weil.
- CASE 6438: Application of Caulkins Oil Company for dual completions and downhole commingling, Rio Arriba County, New Mexico. Applicant, in the above-styled cause, seeks approval for the dual completion of its Breech Well No. 812 located in Unit N of Section 18, Township 26 North, Range 6 West, and its Breech Well No. 224-A located in Unit B of Section 13, Township 26 North, Range 7 West, Rio Arriba County, New Mexico, to produce gas from the Dakota formation through a separate string of tubing and to commingle Chacra and Mesaverde production in the wellbores of said wells.

- CASE 6439: Application of Caulkins Oil Company for downhole commingling, Rio Arriba County, New Mexico.

  Applicant, in the above-styled cause, seeks approval for the downhole commingling of Mesaverde and Dakota production in the wellbore of its Breech A Well No. 229 located in Unit D of Section 17, Township 26 North, Range 6 West, Rio Arriba County, New Mexico.
- CASE 6440: Application of Caulkins 011 Company for a dual completion and downhole commingling, Rio Arriba County, New Mexico. Applicant, in the above-styled cause, seeks approval for the dual completion of its Breech F Well No. 8 located in Unit A of Section 34, Township 27 North, Range 6 West, Rio Arriba County, New Mexico, to produce gas from the Pictured Cliffs formation through a separate string of tubing and to commingle Mesaverde and Dakota production in the wellbore of said well.
- CASE 6441: Application of Caulkins Oil Company for downhole commingling, Rio Arriba County, New Mexico.

  Applicant, in the above-styled cause, seeks approval for the downhole commingling of Pictured Cliffs and Mesaverde production in the wellbore of its Breech F Well No. 12 located in Unit A of Section 35, Township 27 North, Range 6 West, Rio Arriba County, New Mexico.
- CASE 6442: Application of Caulkins Oil Company for downhole commingling, Rio Arriba County, New Mexico.

  Applicant, in the above-styled cause, seeks approval for the downhole commingling of Pictured Cliffs, Chacra and Mesaverde production in the wellbore of its Breech E Well No. 109 located in Unit M of Section 3, Township 26 North, Range 6 West, Rio Arriba County, New Mexico.
- CASE 6443: Application of Caulkins Oil Company for a dual completion and downhole commingling, Rio Arriba County, New Mexico. Applicant, in the above-styled cause, seeks approval for the dual completion (conventional) of its Breech B Well No. 220-R located in Unit B of Section 14, Township 26 North, Range 7 West, to produce gas from the Dakota formation through a separate string of tubing and to commingle Pictured Cliffs, Chacra and Messaverde production in the wellbore of said well.
- CASE 6444: Application of Caulkins Oil Company for downhole commingling, Rio Arriba County, New Mexico.

  Applicant, in the above-styled cause, seeks approval for the downhole commingling of Pictured Cliffs, Mesaverde, Chacra and Greenhorn production in the wellbore of its Breech Well No./224 located in Unit A of Section 13, Township 26 North, Range 7 West, Rio Arriba County, New Mexico.

1

BEFORE THE

NEW MEXICO ENERBY AND MINERALS DEPARTMENT

OIL CONSERVATION DIVISION

IN THE MATTER OF THE APPLICATION OF CAULKINS OIL COMPANY FOR APPROVAL OF DOWNHOLE COMMINGLING AND A DUAL COMPLETION, RIO ARRIBA COUNTY, NEW MEXICO

Case 6440

#### APPLICATION

Comes now Caulkins Oil Company and applies to the Oil Conservation Division, New Mexico Energy and Minerals

Department, for approval of downhole commingling and the dual completion of its Well No. 8, located in Unit A, Section 34,

Township 27 North, Range 6 West, N.M.P.M., Rio Arriba County,

New Mexico, and in support thereof would show the Division:

- 1. The subject well is presently producing as a triple completion from the Pictured Cliffs, Mesaverde and Dakota formations. In order to achieve more efficient operation of the well and prolong its productive life, applicant proposes to commingle production from the Mesaverde and Dakota formations, and dually complete the commingled production with the Pictured Cliffs formation.
- 2. Approval of this application is in the interests of conservation and the prevention of waste, and will result in the production of gas and liquid hydrocarbons that would not otherwise be produced.

WHEREFORE Applicant prays that this application be set for hearing at the last examiner hearing in January, 1979, and that after notice and hearing as required by law, the Division enter its order granting approval of downhole commingling and the dual completion as requested.

> Respectfully submitted, CAULKINS OIL COMPANY

Nellahin & Fox P. O. Box 1769 Santa Fe, New Mexico 87501

ATTORNEYS FOR APPLICANT

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BEFORE THE

## NEW MEXICO ENERBY AND MINERALS DEPARTMENT OIL CONSERVATION DIVISION

IN THE MATTER OF THE APPLICATION OF CAUEKINS OIL COMPANY FOR APPROVAL OF DOWNHOLE COMMINGLING AND A DUAL COMPLETION, RIO ARRIBA COUNTY, NEW MEXICO

Case 6440

### APPLICATION

Comes now Caulkins Oil Company and applies to the Oil Conservation Division, New Mexico Energy and Minerals Department, for approval of downhole commingling and the dual completion of its Well No. 8, located in Unit A, Section 34, completion of its Well No. 8, located in Unit A, Section 34, Township 27 North, Range 6 West, N.M.P.M., Rio Arriba County, New Mexico, and in support thereof would show the Division:

- 1. The subject well is presently producing as a triple completion from the Pictured Cliffs, Mesaverde and Dakota formations. In order to achieve more efficient operation of the well and prolong its productive Tife, applicant proposes to commingle production from the Mesaverde and Dakota formations, and dually complete the commingled production with the pictured Cliffs formation.
  - 2. Approval of this application is in the interests of conservation and the prevention of waste, and will result in the production of gas and liquid hydrocarbons that would not otherwise be produced.

WHEREFORE Applicant prays that this application be set for hearing at the last examiner hearing in January, 1979, and that after notice and hearing as required by law, the

Division enter its order granting approval of downhole commingling and the dual completion as requested.

Respectfully submitted,

CAULKINS OIL COMPANY

By Kellahin & Fox
P. O. Box 1769
Santa Fe, New Mexico 87501
ATTORNEYS FOR APPLICANT

### BEFORE THE

# NEW MEXICO ENERBY AND MINERALS DEPARTMENT

OIL CONSERVATION DIVISION

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IN THE MATTER OF THE APPLICATION OF CAULKINS OIL COMPANY FOR APPROVAL OF DOWNHOLE COMMINGLING AND A DUAL COMPLETION, RIO ARRIBA COUNTY, NEW MEXICO

APPLICATION Case 6440

Comes now Caulkins Oil Company and applies to the Oil Conservation Division, New Mexico Energy and Minerals Department, for approval of downhole commingling and the dual completion of its Well No. 8, located in Unit A, Section 34, Township 27 North, Range 6 West, N.M.P.M., Rio Arriba County, New Mexico, and in support thereof would show the Division:

- 1. The subject well is presently producing as a triple completion from the Pictured Cliffs, Mesaverde and Dakota formations. In order to achieve more efficient operation of the well and prolong its productive life, applicant proposes to commingle production from the Mesaverde and Dakota formations, and dually complete the commingled production with the Pictured Cliffs formation.
- 2. Approval of this application is in the interests of conservation and the prevention of waste, and will result in the production of gas and liquid hydrocarbons that would not otherwise be produced.

WHEREFORE Applicant prays that this application be set for hearing at the last examiner hearing in January, 1979, and that after notice and hearing as required by law, the

Division enter its order granting approval of downhole commingling and the dual completion as requested.

Respectfully submitted, CAULKINS OIL COMPANY

Relahin & Fox
P. O. Box 1769
Santa Fe, New Mexico 87501

ATTORNEYS FOR APPLICANT

dr/

#### STATE OF NEW MEXICO ENERGY AND MINERALS DEPARTMENT OIL CONSERVATION DIVISION

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

production

CASE NO.	6440	
Andan Na	D- read	

APPLICATION OF \_\_CAULKINS OIL COMPANY COMPLETION AND DOWNHOLE COMMINGLING, RIO ARRIBA FOR A DUAL COUNTY, NEW MEXICO. ORDER OF THE DIVISION BY THE DIVISION: This cause came on for hearing at 9 o'clock a.m. on January 31 , 19 79 , at Santa Fe, New Mexico, before Examiner Richard L. Stamets NOW, on this day of February, 19 79, the Division Director, having considered the testimony, the record, and the recommendations of the Examiner, and being fully advised in the premises, FINDS: (1) That due public notice having been given as required by law, the Division has jurisdiction of this cause and the subject matter thereof. (2) That the applicant, Caulkins Oil Company seeks authority to complete its Breech F Well No. 8 , Town-\_, NMPM, Rio Arriba ship 27 North , Range 6 West County, New Mexico, as a dual completion (conventional) (combination) (tubingless) -----produce gas from the Pictured Cliffs formation through separate string of tubing and to commingle Mesaverde and Dakota que

of said well through a second

· Moscovorde and Da Hota 2 smes,
(3) 147 That from the
subject well is capable of low marginal production only.
(5) That from thezone, the
subject well is capable of low marginal production only.
(4) (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.
(5) 477 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.
(6) (8) That to afford the Division the opportunity to assess
the potential for waste and to expeditiously order appropriate
remedial action, the operator should notify the Hatec
district office of the Division any time the subject well is
shut-in for 7 consecutive days.
(7) (9) That in order to allocate the commingled production
to each of the commingled zones in the subject well, 21 percent and 23
percent of the commingled good condition production should be
allocated to the Meiaverde zone, and 79 percent and 77
percent of the commingled gos and conductive production to the
Do Kota zone.
(ALTERNATE)
(9) That in order to allocate the commingled production to
each of the commingled zones in the wells, applicant should
consult with the supervisor of the district office
of the Division and determine an allocation formula for each of
the production zones. which anthorized the triple completion of the susper week,
What Division Order No R. 1430, Should
be superseded.

(9)(a) That the mechanics of the proposed dual completion are feasible and in accord with good conservation practices. (10) (4) That approval of the subject application will prevent waste and protect correlative rights. IT IS THEREFORE ORDERED: (1) That the applicant, \_\_\_\_\_ Caulkins Oil Company is hereby authorized to complete its Breech F Well No. 8 , located in Unit A of Section , NMPM, Rio Arriba 27 North , Range 6 West Township County, New Mexico, as a \_\_\_dual completion (conventional) (combination) (tubingless) to produce gas from the Pictured Cliffs formation through response string of tubing and to commingle Mesaverde and Dakota production in the wellbore of PROVIDED HOWEVER, that the applicant shall complete, operate, and produce said well in accordance with the provisions of Rule 112-A of the Division Rules and Regulations insofar as said rule is not inconsistent with this order; PROVIDED FURTHER, that the applicant shall take tests upon completion and annually thereafter during the Annual Delivere bi Test Period for the ges wells in Northwest New Mexico (2) That jurisdiction of this cause is retained for the entry of such further orders as the Division may deem necessary. DOME at Santa Fe, New Mexico, on the day and year hereinabove designated.

IT IS THEREFORE ORDERED:
(1) That the applicant,, is
hereby authorized to commingleand
production within the wellbore of
the of
Section, Township, Range
NMPM,County, New Mexico.
(2) That the applicant shall consult with the Supervisor
of the district office of the Division and
determine an allocation formula for the allocation of production
to each zone in each of the subject wells.
(ALTERNATE)
(2) That 21 percent and 23 percent of the commingled gos and condendant
production shall be allocated to the Meseverde
production shall be allocated to the Dakova
zone.
(3) That the operator of the subject well shall immediately
notify the Division's Ratec 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.
(5) That jurisdiction of this cause is retained for the
entry of such further orders as the Division may deem necessary.
DONE at Santa Fe, New Mexico, on the day and year hereinabove
designated.
(4) that Division Order No R-1430 15
(4) that Division Order No R-1430 15 hereby superseded.

Con densate