

CASE NO.

6381

APPLICATION,
TRANSCRIPTS,
SMALL EXHIBITS,

ETC.

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION
State Land Office Building
Santa Fe, New Mexico
21 November 1978

EXAMINER HEARING

IN THE MATTER OF:

Application of Yates Petroleum
Corporation for downhole
comingling, Eddy County, New Mexico.) CASE
6381

BEFORE: Daniel S. Nutter

TRANSCRIPT OF HEARING

A P P E A R A N C E S

For the Oil Conservation
Division:

Lynn Teschendorf, Esq.
Legal Counsel for the Division
State Land Office Bldg.
Santa Fe, New Mexico 87501

For the Applicant:

Joel Carson, Esq.
LOSEE, CARSON, & DICKERSON
Artesia, New Mexico

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I N D E X

EDDIE MAHFOOD

Direct Examination by Mr. Carson	3
Cross Examination by Mr. Nutter	8

E X H I B I T S

Applicant Exhibit One, Plat	8
Applicant Exhibit Two, Sketch	8
Applicant Exhibit Three, Log	8
Applicant Exhibit Four, History	8
Applicant Exhibit Five, Document	8
Applicant Exhibit Six, Application	8

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1 MR. NUTTER: Call Case 6381.

2 MS. TESCHENDORF: Case 6381. Application of
3 Yates Petroleum Corporation for downhole commingling, Eddy
4 County, New Mexico.

5 MR. CARSON: Mr. Examiner, my name is Joel
6 Carson, Losee, Carson, and Dickerson, P. A., appearing here
7 on behalf of the applicant and I have one witness, Mr.
8 Eddie Mahfood.

9 (Witness sworn.)

10 MR. CARSON: Mr. Examiner, this case has been
11 properly advertised, but in filing this application I called
12 this pool the Cottonwood Wolfcamp Pool when it should
13 properly be designated as the East Cottonwood Creek Wolfcamp
14 Pool, and I would like to move for -- to amend my petition
15 so to state.

16 MR. NUTTER: The application has been
17 amended, Mr. Carson.

18
19 EDDIE MAHFOOD
20 being called as a witness and having been duly sworn upon
21 his oath, testified as follows, to-wit:
22

23 DIRECT EXAMINATION

24 BY MR. CARSON:

25 Q Mr. Mahfood, would you state your name, by

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1 whom you're employed?

2 A Eddie Mahfood, Yates Petroleum, Artesia.

3 Q And in what capacity?

4 A I'm their engineer.

5 Q Mr. Mahfood, have you previously testified
6 before this Commission?

7 A Yes, I have.

8 Q And have your qualifications been accepted?

9 A Yes.

10 MR. CARSON: Are his qualifications acceptable?

11 MR. NUTTER: Yes, sir, they are.

12 Q (Mr. Carson continuing.) Mr. Mahfood, would
13 you state the purpose of this application?

14 A They're seeking to commingle -- downhole
15 commingle the Atoka and the Wolfcamp completions in the
16 Lizzie Howard "HK" No. 1. This well is located in Unit K
17 of Section 13, 16 South, 25 East.

18 Q And I will refer you to Applicant's Exhibit
19 Number One and ask what that purports to show?

20 A Exhibit Number One is a lease ownership map
21 showing the location of the well, Unit K of Section 13.
22 It's in the west half of Section 13, which is colored yellow.

23 Q Okay. I refer you to Applicant's Exhibit
24 Number Two and ask you if you would explain that exhibit?

25 A This is a diagrammatic sketch of the dual

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1 completion of Lizzie Howard "HK" No. 1.

2 We have one string of tubing with one packer.
3 The Atoka is producing through the tubing at this time and
4 the Wolfcamp is shutin in the annulus.

5 To dual complete -- or to commingle we simply
6 have to open the Baker sleeve, the sliding sleeve in this
7 tubing string.

8 Q Okay, and in what -- at what depth are these --

9 A The Atoka perforations --

10 Q -- well perforations?

11 A -- are at 7178 to 7184, and the Wolfcamp com-
12 pletions are at 5055 to 5072.

13 Q Can you tell the Hearing Examiner about the
14 pressures that are involved -- you really need to do that
15 in another exhibit, though, don't you?

16 A We have some exhibits that will bring that
17 out.

18 Q Let me ask you to identify Applicant's Exhibit
19 Number Three and explain that.

20 A Exhibit Number Three is a log, the C and L
21 Density Log and DLL Log of the Lizzie Howard "HK" No. 1.
22 The perforations are shown and the pay zone is colored in
23 orange and yellow.

24 Q Now let me refer you to Applicant's Exhibit
25 Number Four and ask you to explain that exhibit, please.

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1 A Exhibit Four is the production history of the
2 Atoka Zone in the Lizzie Howard "HK" No. 1.

3 In yellow is the gas production, showing
4 rapid decline, and above that is the tubing pressure, also
5 showing a rapid decline.

6 MR. NUTTER: What zone is this for, Mr.
7 Mahfood?

8 A This is the Atoka.

9 Q Now do you have any projected pressures for
10 the Wolfcamp?

11 A Yes, I have another exhibit. The tubing
12 pressure is shown -- the shutin -- the initial shutin
13 tubing pressure is shown here at the top of the tubing
14 pressure curve.

15 Q This is on Exhibit Four?

16 A On Exhibit Four and on Exhibit Five, Item F,
17 shutin pressures for the Atoka was 2255 for head pressure
18 or 2721 bottom hole pressure, and the Wolfcamp wellhead
19 pressure is 1958.

20 Q Are the gases and the fluids from these two
21 zones compatible?

22 A Yes.

23 Q Do you have any recommendation as to how
24 the Commission can determine how much production there is
25 in each of these zones?

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1 A Well, we propose to produce the Wolfcamp for
2 awhile to determine the reserves in it, and from the present
3 production history and shutin pressure we can determine the
4 reserves in the Atoka.

5 Q What has been the production history of the
6 Atoka to date?

7 A I don't have a cumulative figure here. I'm
8 sorry about that, but at present -- the last three days
9 the Atoka produced 94 Mcf a day at 600 pounds tubing pres-
10 sure.

11 Q Now, Mr. Mahfood, let me refer you to Appli-
12 cant's Exhibit Number Six, and ask you to explain that.

13 A Exhibit Number Six is the application for
14 multiple completion. This well was originally completed
15 in the -- as a dual but with a bridge plug in the Atoka,
16 and approximately two months ago we made application to
17 go back and complete in the Atoka with the Wolfcamp shut in
18 and that was the purpose for the application for the multiple
19 completion.

20 Q Now, Mr. Mahfood, were Applicant's Exhibits
21 Number One through Six prepared by you or under your super-
22 vision?

23 A Yes, sir.

24 MR. CARSON: I'd like to move the introduction
25 of the exhibits, Mr. Examiner.

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

3 Q Mr. Mahfood, in your professional opinion,
4 will the granting of the permission to downhole commingle
5 this well, is it in accordance with good conservation
6 practices, and will it otherwise prevent waste and protect
7 correlative rights?

8 A Yes, I believe it is.

9 Q And is it in accordance with -- feasible in
10 accordance with good engineering practices?

11 A Yes, sir.

12 MR. CARSON: No further questions, Mr.
13 Nutter.

14
15 CROSS EXAMINATION

16 BY MR. NUTTER:

17 Q Mr. Mahfood, has the Wolfcamp ever produced?

18 A Just for test purposes only.

19 Q I see, and it's been shut in ever since the
20 well was completed and the Wolfcamp tested, then?

21 A Yes, sir. In Exhibit Two we showed initial
22 potential of 300 Mcf per day from the Wolfcamp and 425 Mcf
23 per day from the Atoka.

24 Q So together the two zones made less than a
25 million a day.

A That is correct.

1 Q And now this Exhibit Number Four shows the
2 decline in the Atoka, which has gone from a daily rate of
3 something less than 300 Mcf per day into the pipeline down
4 to approximately 100 per day.

5 A That is correct.

6 Q And you stated that the last three days that
7 it's averaged 94.

8 A 94.

9 Q Now these pressures that are shown here, are
10 these the flowing tubing pressures?

11 A Those are flowing tubing pressures.

12 Q Now, in order to allocate between the two
13 zones, you said you would produce the Wolfcamp for awhile.
14 Did you mean produce it along with the Atoka or would you
15 blank off the Atoka and produce the Wolfcamp separately for
16 awhile?

17 A We could blank off the Atoka separately for
18 awhile.

19 Q I think that would probably be advisable to
20 see just what the Wolfcamp would do. You know what the
21 Atoka will do now.

22 A Yes, sir.

23 Q And then after you've done that you could
24 consult with our Artesia office and determine an allocation
25 factor.

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1 A Yes, sir.

2 Q Okay, fine.

3 MR. NUTTER: Are there further questions of

4 Mr. Mahfood? He may be excused.

5 Do you have anything further in Case Number

6 6381, Mr. Carson?

7 MR. CARSON: Nothing else in this case.

8 MR. NUTTER: Does anyone have anything in

9 Case Number 6381?

10 We'll take the case under advisement.

11 (Hearing concluded.)

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REPORTER'S CERTIFICATE

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

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

SALLY WALTON BOYD
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I do hereby certify that the foregoing is
a complete and correct transcript of the proceedings in
the examination hearing of Case No. 6385
heard by me on 11/31 1978

[Signature], Examiner
Oil Conservation Division



STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION

POST OFFICE BOX 2089
STATE LAND OFFICE BUILDING
SANTA FE, NEW MEXICO 87501
(505) 827-2434

December 26, 1978

Re: CASE NO. 6381
ORDER NO. R-5879

Mr. Joel Carson
Losee, Carson & Dickerson
Attorneys at Law
Post Office Box 239
Artesia, New Mexico 88210

Applicant:

Applicant:

Yates Petroleum Corporation

Dear Sir:

Dear Sir:

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

~~Yours very truly,~~

JOE D. RAMEY
Director

JDR/fd

Copy of order also sent to:

Hobbs OCC x
Artesia OCC x
Aztec OCC

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. 6381
Order No. R-5879

APPLICATION OF YATES PETROLEUM CORPORATION
FOR DOWNHOLE COMMINGLING, EDDY COUNTY,
NEW MEXICO.

ORDER OF THE DIVISION

BY THE DIVISION:

This cause came on for hearing at 9 a.m. on November 21, 1978, at Santa Fe, New Mexico, before Examiner Daniel S. Nutter.

NOW, on this 21st day of December, 1978, 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, Yates Petroleum Corporation, is the owner and operator of the Lizzie Howard "HK" Well No. 1, located in Unit K of Section 13, Township 16 South, Range 25 East, NMPM, Eddy County, New Mexico.

(3) That the applicant seeks authority to commingle East Cottonwood Creek-Wolfcamp and undesignated Atoka production within the wellbore of the above-described well.

(4) That from the East Cottonwood Creek-Wolfcamp zone, the subject well is expected to be capable of low marginal production only.

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

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

-2-

Case No. 6381
Order No. R-5879

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

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

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

IT IS THEREFORE ORDERED:

(1) That the applicant, Yates Petroleum Corporation, is hereby authorized to commingle East Cottonwood Creek-Wolfcamp and undesignated Atoka production within the wellbore of the Lizzie Howard "HK" Well No. 1, located in Unit K of Section 13, Township 16 South, Range 25 East, NMPM, Eddy County, New Mexico.

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

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

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

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

STATE OF NEW MEXICO
OIL CONSERVATION DIVISION


JOE D. RAMEY
Director

Ed/

R-26-E

R-26-F

FOR EXAMINER USE
OIL CONSERVATION DIVISION

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Diagrammatic Sketch of Proposed Dual Completion, Lizzie Howard HK#1

Elevation: 3428 CL - 3445 KB
 Spudded: 2-18-77
 Init Compl: Atoka, 4-13-77
 Dual Compl: Wolfcamp, 4-28-77

Top of San Andres - 705 KB

Base of Artesian Water - 996 KB

Top of Wolfcamp @ 5053 KB

Cottonwood Wolfcamp

IPF: 200 psi on $\frac{1}{4}$ " Ck = 300 mcf/d

To Commingle - Open Baker
 Model L Sliding Sleeve @ 5076

Top of Cisco @ 6056 KB

Top of Canyon @ 6750 KB

Top of Atoka @ 7115

Under Atoka

IPF: 70 psi on $\frac{1}{4}$ " Ck = 425 mcf/d

BEFORE EXAMINER NOTED
 OIL CONSERVATION DIVISION
 2

6381

Tubing Completion to Sales (Atoka)
 Casing Completion Shut-in (Wolfcamp)

17 1/2" hole to 365' KB
 13 1/2" 48" J55 Csg set @ 365' KB, cement'd
 w/ 380sx CI C, circulated.

12 1/4" hole to 1165'
 8 7/8" 24" J55 Csg set @ 1165' KB, cement'd
 w/ 1225sx CI C, circulated.

Top of cement @ 4300

Blast joints on 2 3/8" Tbg opposite perforations.
 Seating Nipple or Profile and Sliding Sleeve (Closed)

Perf: 5055-5072

Trtd: 2000g. 15% DS-30, 8 bpm @ 5500', 180P-1550'
 Sd Frac'd 210000' Sd in 80000g. treated water.

DV Tool @ 5399' KB, cement'd w/ 350 sx
 CI H

Top of primary cement @

2 3/8" 4-7" J55 Tbg on Guiberson UNI-VI Pkg
 set at 7121' KB w/ On/Off tool and Profile

Perf: 7128-7184 w/ 24 0.34" holes

Trtd: SF 13500' 20/40 in 6000g. 3% MSA+CO₂

PBTD: 7367' KB

11 1/2" 10.5" 11.6" K-55 set @ 7406' KB, cement'd
 w/ 250 sx CI H

TD: 7407' DL - 7410' Htg

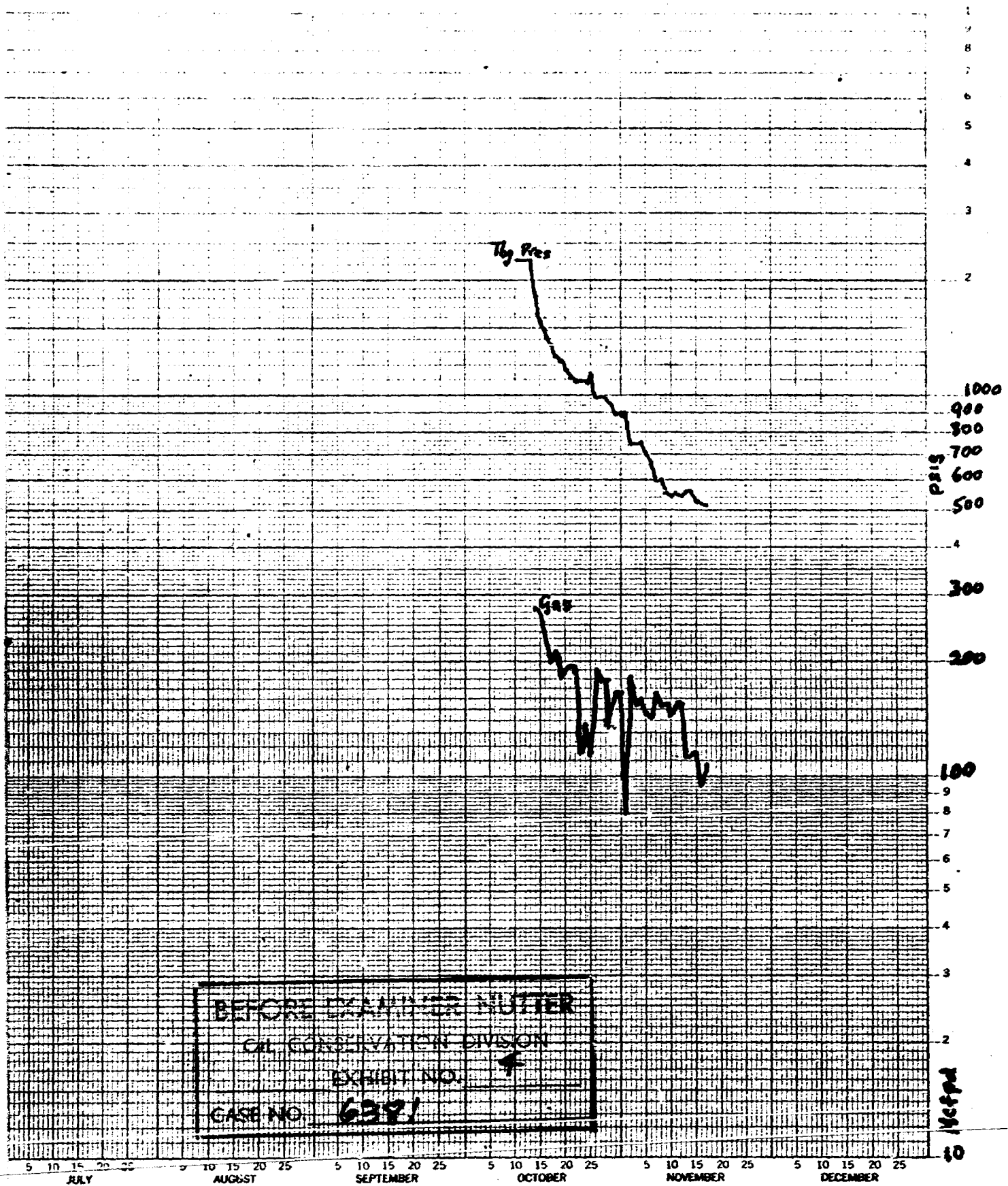
9-29-78
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BEFORE EXAMINER NUTTER
OIL CONSERVATION DIVISION
EXHIBIT NO. 3

BEFORE EXAMINER NUTTER
OIL CONSERVATION DIVISION.
EXHIBIT NO. 3
CASE NO. 6381

Lizzie Howard HK

Lizzie Howard





207 SOUTH FOURTH STREET
ARTESIA, NEW MEXICO 88210
TELEPHONE (505) 746-3558

S. P. YATES
PRESIDENT
MARTIN YATES, III
VICE PRESIDENT
JOHN A. YATES
VICE PRESIDENT
B. W. HARPER
SEC. TREAS.

September 29, 1978

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

Re: Downhole Commingling, Lizzie Howard HK No. 1
Unit K Sec 13-16s-25e, Eddy County

Dear Sir:

Exception to Rule 303-A is hereby applied for:

- (a) Operator - Yates Petroleum Corporation, Artesia, New Mexico;
- (b) Lizzie Howard HK No. 1, 1980 FSL 1980 FWL, Section 13 T16s R25e;
- (c) Cottonwood Wolfcamp and Undesignated Atoka, Form C-107, Application for Dual Completion is filed herewith;
- (d) Both zones are marginal producers after acidizing and sand frac: The Atoka completion flowed 70 psig on 1/2" choke (425 mcfpd) and the Wolfcamp completion flowed 200 psig on 1/4" choke (300 mcfpd);
- (e) This well has been shut in waiting on pipeline connection, but other wells in this shelf area all show rapid initial decline, often down to 25 percent deliverability within the first 60 days;
- (f) Shut in pressures are: Atoka - 2255# WHP (2721 psi @ 7121'), Wolfcamp - 1958# WHP.
- (g) Neither zone produces any formation water or acid gases, therefore, the fluids will not be incompatible;
- (h) Commingling will allow a longer economic productive life thereby enhancing ultimate recovery, preventing waste and protecting correlative rights.

Offset operators are notified of this intent by copy hercof and asked that they send waivers of objection to NMOCC, Santa Fe.

Yours very truly,

YATES PETROLEUM CORPORATION

Eddie M. Mahfood
Eddie M. Mahfood

EMM/ob

cc: Exxon Company
Texas Oil & Gas Company

BEFORE EXAMINER NUTTER	
OIL CONSERVATION DIVISION	
FILE NO.	5
CASE	6381

NEW MEXICO OIL CONSERVATION COMMISSION

SANTA FE, NEW MEXICO

5-1-61

APPLICATION FOR MULTIPLE COMPLETION

Operator Yates Petroleum Corporation		County Eddy	Date September 29, 1978
Address 207 S. 4th Street, Artesia, NM		Lease Lizzie Howard HK	Well No. 1
Location of well	Unit K	Section 13	Township 16s
			Range 25e

1. Has the New Mexico Oil Conservation Commission heretofore authorized the multiple completion of a well in these same pools or in the same zones within one mile of the subject well? YES _____ NO X
2. If answer is yes, identify one such instance: Order No. _____; Operator, Lease, and Well No.:

3. The following facts are submitted:	Upper Zone	Intermediate Zone	Lower Zone
a. Name of Pool and Formation	Cottonwood Wolfcamp		Und. Atoka
b. Top and Bottom of Pay Section (Perforations)	Pfs 5055-5072		Pfs 7176-7184
c. Type of production (Oil or Gas)	Gas		Gas
d. Method of Production (Flowing or Artificial Lift)	Flowing		Flowing

4. The following are attached. (Please mark YES or NO)

- Yes a. Diagrammatic Sketch of the Multiple Completion, showing all casing strings, including diameters and setting depths, centralizers and/or turbolizers and location thereof, quantities used and top of cement, perforated intervals, tubing strings, including diameters and setting depth, location and type of packers and side door chokes, and such other information as may be pertinent.
- Yes b. Plat showing the location of all wells on applicant's lease, all offset wells on offset leases, and the names and addresses of operators of all leases offsetting applicant's lease.
- Yes c. Waivers consenting to such multiple completion from each offset operator, or in lieu thereof, evidence that said offset operators have been furnished copies of the application. *
- Yes d. Electrical log of the well or other acceptable log with tops and bottoms of producing zones and intervals of perforation indicated thereon. (If such log is not available at the time application is filed, it shall be submitted as provided by Rule 112-A.)

5. List all offset operators to the lease on which this well is located together with their correct mailing address.

Exxon Corporation, P.O. Box 1600, Exxon Building, Midland, TX 79701

Texas Oil & Gas Company, 900 Wilco Building, Midland, Texas 79701

6. Were all operators listed in Item 5 above notified and furnished a copy of this application? YES X NO ____ . If answer is yes, give date of such notification 9/29/78

CERTIFICATE: I, the undersigned, state that I am the Eddie M. Mahfood of the Yates Petroleum Corporation (company), and that I am authorized by said company to make this report; and that this report was prepared under my supervision and direction, and that the facts stated therein are true, correct and complete to the best of my knowledge.

BEFORE EXAMINER NOTAR

OIL CONSERVATION DIVISION

Should waivers from all offset operators accompany an application for administrative approval, the New Mexico Oil Conservation Commission will hold the application for a period of twenty (20) days from date of receipt by the Commission's Santa Fe office. If, after said twenty (20) day period, no protest or request for hearing is received by the Santa Fe office, the application will then be processed.

NOTE: If the proposed multiple completion will result in an unorthodox well location and/or a non-standard production unit in either or both of the producing zones, then separate application for approval of the same should be filed simultaneously with this application.

- CASE 6380: Application of Harvey E. Yates Company, Inc., for a dual completion, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks approval for the dual completion of its Travis Deep Well No. 3 located in Unit B of Section 13, Township 12 South, Range 28 East, to produce oil from the Travis-Upper Pennsylvanian Pool and gas from the Morrow formation, Eddy County, New Mexico, through parallel strings of tubing.
- CASE 6381: Application of Yates Petroleum Corporation for downhole commingling, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks approval for the downhole commingling of East Cottonwood Creek-Wolfcamp and Atoka production within the wellbore of its Lizzie Howard "HK" Well No. 1 located in Unit K of Section 13, Township 16 South, Range 25 East, Eddy County, New Mexico.
- CASE 6382: Application of Yates Petroleum Corporation for downhole commingling, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks approval for the downhole commingling of Permo-Penn and Little Box Canyon-Atoka production within the wellbore of its Federal "HQ" Well No. 1 located in Unit E of Section 5, Township 21 South, Range 22 East, Eddy County, New Mexico.
- CASE 6383: Application of Yates Petroleum Corporation for downhole commingling, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks approval for the downhole commingling of Eagle Creek Permo-Penn and the West Atoka-Morrow production within the wellbore of its Powell "DC" Com. Well No. 1 located in Unit O of Section 35, Township 17 South, Range 25 East, Eddy County, New Mexico.
- CASE 6384: Application of Yates Petroleum Corporation for downhole commingling, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks approval for the downhole commingling of Permo-Penn and Atoka production within the wellbore of its Federal "AB" Com. Well No. 5 located in Unit L of Section 21, Township 18 South, Range 25 East, Eddy County, New Mexico.
- CASE 6385: Application of Yates Petroleum Corporation for downhole commingling, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks approval for the downhole commingling of Box Canyon Permo-Penn and Box Canyon-Strawn production within the wellbore of its Huber I-A Federal Well No. 2 located in Unit P of Section 15, Township 21 South, Range 21 East, Eddy County, New Mexico.
- CASE 6386: Application of Atlantic Richfield Company for compulsory pooling, Lea County, New Mexico. Applicant, in the above-styled cause, seeks an order pooling all mineral interests in the Ellenburger, Devonian, and McKee formations underlying the N/2 of Section 21, Township 22 South, Range 36 East, Lea County, New Mexico, to be dedicated to its Langley Greer Com Well No. 1 located 1650 feet from the North line and 1980 feet from the West line of said Section 21. 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 6387: Application of R B Petroleum Company for pool reclassification, San Juan County, New Mexico. Applicant, in the above-styled cause, seeks the reclassification of the North Tocito Dome-Pennsylvanian Pool as an associated pool and the promulgation of special pool rules therefor. In the alternative, applicant seeks the abolishment of the North Tocito Dome-Pennsylvanian Pool and the inclusion of the abolished lands in the Tocito Dome Pennsylvanian "D" Associated Pool.
- CASE 6388: Application of Amoco Production Company for compulsory pooling, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks an order pooling all mineral interests in the Pennsylvanian formation underlying the E/2 of Section 20, Township 23 South, Range 29 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 6389: Application of Durham, Inc., for pool contraction and extension, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks the contraction of the Indian Basin-Morrow Gas Pool by the deletion therefrom of the N/2 of Section 8, Township 21 South, Range 24 East, Eddy County, New Mexico, or in the alternative, all of said Section 8, and the extension of the Cemetery-Morrow Gas Pool to include the aforesaid N/2 or all of said Section 8.
- CASE 6390: Application of C & E Operators for compulsory pooling, San Juan County, New Mexico. Applicant, in the above-styled cause, seeks an order pooling all mineral interests down thru the Pictured Cliffs formation underlying the SW/4 of Section 10, Township 30 North, Range 11 West, San Juan 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.

Dockets Nos. 39-78 and 40-78 are tentatively set for hearing on December 7 and 20, 1978. Applications for hearing must be filed at least 22 days in advance of hearing date.

DOCKET: COMMISSION HEARING - TUESDAY - NOVEMBER 14, 1978

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

The following cases are continued from the November 7, 1978, Commission Hearing.

CASE 6146: (DE NOVO) (Continued and Readvertised)

Application of Jerome P. McHugh for downhole commingling, Rio Arriba County, New Mexico. Applicant, in the above-styled cause, seeks approval for the downhole commingling of Tapacito-Gallup and Basin-Dakota production within the wellbore of his Jicarilla Well No. 5 located in Unit D of Section 29, Township 26 North, Range 4 West, Rio Arriba County, New Mexico.

Upon application of Jerome P. McHugh this case will be heard De Novo pursuant to the provisions of Rule 1220.

CASE 6266: (DE NOVO)

Application of Harvey E. Yates Company for an unorthodox gas well location, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks approval for the unorthodox location of an Upper Pennsylvanian test well to be located 660 feet from the North and East lines or, in the alternative, 990 feet from the North and East lines of Section 23, Township 22 South, Range 23 East, Indian Basin-Upper Pennsylvanian Gas Pool, Eddy County, New Mexico, all of said Section 23 to be dedicated to the well.

Upon application of Harvey E. Yates Company this case will be heard De Novo pursuant to the provisions of Rule 1220.

CASE 6377: Application of Durham, Inc., for compulsory pooling, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks an order pooling all mineral interests in the Morrow formation underlying Section 8, Township 21 South, Range 24 East, Indian Basin-Morrow Gas Pool, Eddy County, New Mexico, to be dedicated to a well to be drilled 1650 feet from the North and East lines of said Section 8. 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 6378: In the matter of the hearing called by the Oil Conservation Division on the motion of Shell Oil Company to permit Corinne Grace and all other interested parties to appear and show cause why Division Order No. R-3713, which pooled all of Section 8, Township 21 South, Range 24 East, Eddy County, New Mexico, should not be declared null and void, if said pooling order has not already automatically expired due to non-production.

CASE 6379: Application of Shell Oil Company for pool contraction and pool extension, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks the contraction of the Indian Basin-Morrow Gas Pool by the deletion therefrom of the N/2 of Section 8, Township 21 South, Range 24 East, Eddy County, New Mexico, or in the alternative, all of said Section 8, and the extension of the Cemetery-Morrow Gas Pool to include the aforesaid N/2 or all of said Section 8.

DOCKET: EXAMINER HEARING - TUESDAY - NOVEMBER 21, 1978

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

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

- ALLOWABLE:
- (1) Consideration of the allowable production of gas for December, 1978, from fifteen prorated pools in Lea, Eddy, and Chaves Counties, New Mexico.
 - (2) Consideration of the allowable production of gas for December, 1978, from four prorated pools in San Juan, Rio Arriba, and Sandoval Counties, New Mexico.

CASE 6391: Application of Acoma Oil Corporation for downhole commingling, Lea County, New Mexico. Applicant, in the above-styled cause, seeks approval for the downhole commingling of Blinebry, Wantz-Abo, and Drinkard production within the wellbore of its Sarkeys Well No. 1 located in Unit A of Section 26, Township 21 South, Range 37 East, Lea County, New Mexico.

CASE 6364: (Continued from October 25, 1978, Examiner Hearing)

Application of Adobe Oil Company for compulsory pooling, Lea County, New Mexico. Applicant, in the above-styled cause, seeks an order pooling all mineral interests from the surface to the base of the Ellenburger formation underlying the NW/4 SE/4 of Section 23, Township 20 South, Range 38 East, Lea County, New Mexico, to be dedicated to a proposed oil well to be drilled at a standard location thereon. Applicant seeks the pooling of the SE/4 of said Section 23 in the event said drilling results in a gas well. 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.

COF 12 K-10

W A I V E R

Downhole Commingling
Yates Petroleum Corporation
Lizzie Howard HK No. 1

Exxon Corporation, as an offset lease owner, has no objection to Yates Petroleum Corporation's proposal to downhole commingle the Wolfcamp and Atoka formations in their Lizzie Howard HK No. 1 located in Unit K, Section 13, T16S, R25E, in Eddy County, New Mexico.

BY 

FOR EXXON CORPORATION

DATE OCTOBER 10, 1978

TEXAS OIL & GAS CORP.

900 WILCO BUILDING
MIDLAND, TEXAS 79701

October 12, 1978

OCT 18 1978

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

Re: Downhole Commingling, Lizzie Howard HK No. 1
Unit K Sec. 13-16s-25e, Eddy County

Dear Sir:

Texas Oil and Gas Corp. does not object to the proposed downhole commingling of the Yates Lizzie Howard HK No. 1, Unit K Sec. 13-16s-25e, Eddy County, New Mexico.

Sincerely,

L. L. Flaten

L. L. Flaten
District Exploration Manager

LLF/so

A
cones fine from Joel Carson
C. Co Howard Cuccia - Wild Camp
Lizzie Howard H K #1

Fed PB #6 com
6528 - 7474 - Upper Run
- Upper Run & Cucc

From Penn

A. J. LOSEE
JOEL M. CARSON
CHAD DICKERSON

LAW OFFICES
LOSEE & CARSON, P.A.
300 AMERICAN HOME BUILDING
P. O. DRAWER 239
ARTESIA, NEW MEXICO 88210

AREA CODE 508
746-3508

OCT 30 1978

27 October 1978

OIL CONSERVATION COMMISSION
Santa Fe

Mr. Joe D. Ramey, Director
New Mexico Oil Conservation Division
P. O. Box 2088
Santa Fe, New Mexico 87501

Dear Mr. Ramey:

Enclosed for filing, please find three copies each of five Applications of Yates Petroleum Corporation for downhole commingling in Eddy County, New Mexico.

We ask that these cases be set for hearing on November 21, 1978 and that you furnish us with a docket of said hearings.

Yours truly,

LOSEE, CARSON & DICKERSON, P.A.


Joel M. Carson

JMC:bjm
Enclosures

cc w/enclosures: Yates Petroleum Corporation

OCT 30 1978
OIL CONSERVATION DIVISION
SANTA FE

BEFORE THE OIL CONSERVATION DIVISION
OF THE STATE OF NEW MEXICO

IN THE MATTER OF THE APPLICATION OF
YATES PETROLEUM CORPORATION for DOWN-
HOLE COMMINGLING, EDDY COUNTY,
NEW MEXICO

CASE NO. 6381

APPLICATION

COMES NOW YATES PETROLEUM CORPORATION, by its attorneys,
and in support hereof, respectfully states:

1. That applicant is the operator of the Wolfcamp and
Pennsylvanian system at a location in Unit K, Section 13, Township
16 South, Range 25 East, N.M.P.M., Eddy County, New Mexico, upon
which it has drilled its Lizzie Howard "HK" No. 1 Well. This well
is located within the boundaries of the ~~Cottonwood-Wolfcamp Pool~~. *East Cottonwood Creek-half*

2. That applicant has completed said well in the
Wolfcamp zone at a depth of 5,055 feet to 5,072 feet and proposes
to commingle said formation with the Wildcat-Atoka formation at a
depth of 7,178 feet to 7,184 feet.

3. That the downhole commingling of said well is
feasible in accordance with good conservation practices and will
otherwise prevent waste and protect correlative rights.

WHEREFORE, applicant prays:

A. That this application be set for hearing before an
examiner and that notice of said hearing be given as required by
law

B. That upon hearing the Division enter its order
granting permission to applicant to commingle downhole its Lizzie

Howard "HK" No. 1 Well for the production of gas from the Wolfcamp and Pennsylvanian formations.

C. And for such other relief as may be just in the premises.

YATES PETROLEUM CORPORATION

By: 

Joel M. Carson

P. O. Drawer 239

Artesia, New Mexico 88210

Attorneys for Applicant

dr/

JGR

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION

Ball

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

CASE NO. 6381

DM
Order No. R-5879

APPLICATION OF YATES PETROLEUM CORPORATION
FOR DOWNHOLE COMMINGLING, EDDY
COUNTY, NEW MEXICO.

ORDER OF THE DIVISION

BY THE DIVISION:

This cause came on for hearing at 9 a.m. on November 21,
19 78, at Santa Fe, New Mexico, before Examiner Daniel S.
Nutter.

NOW, on this December day of November, 19 78, 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, Yates Petroleum Corporation, is
the owner and operator of the Lizzie Howard "HK" Well No. 1,
located in Unit K of Section 13, Township 16 South,
Range 25 East, NMPM, Eddy County, New Mexico.

(3) That the applicant seeks authority to commingle
East Cottonwood Creek-^{Wolfcamp} ^{undesignated} and ^{Atoka} production
within the wellbore of the above-described well.

(4) That from the East Cottonwood Creek- ^{Wolfcamp} zone, the subject well is ^{expected to be} capable of low marginal production only.

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

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

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

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

~~(9) That in order to allocate the commingled production to each of the commingled zones in the subject well, _____ percent of the commingled _____ production should be allocated to the East Cottonwood Creek ^{Wolfcamp} zone, and _____ percent of the commingled _____ production to the Atoka 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 Artesia district office of the Division and determine an allocation formula for each of the production zones.

IT IS THEREFORE ORDERED:

(1) That the applicant, Yates Petroleum Corporation, is hereby authorized to commingle East Cottonwood Creek-^{Wolfcamp} and ~~undesignated~~ Atoka production within the wellbore of the Lizzie Howard "HK" Well No. 1, located in Unit K of Section 13, Township 16 South, Range 25 East, NMPM, Eddy County, New Mexico.

(2) That the applicant shall consult with the Supervisor of the Artesia 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 _____ percent of the commingled _____^{Wolfcamp} production shall be allocated to the East Cottonwood Creek- zone and _____ percent of the commingled _____ production shall be allocated to the Atoka zone.~~

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

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

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

Ambury
5923 13

CASE 6382: YATES PETROLEUM CORPORATION
FOR DOMESTIC CONFINING, EDDY COUNTY,
NEW MEXICO