

CASE No.

4984

Application,

Transcripts,

Small Exhibits

ETC.



OIL CONSERVATION COMMISSION

STATE OF NEW MEXICO
P. O. BOX 2088 - SANTA FE
87501

June 15, 1973

**GOVERNOR
BRUCE KING
CHAIRMAN**

**LAND COMMISSIONER
ALEX J. ARMijo
MEMBER**

**STATE GEOLOGIST
A. L. PORTER, JR.**

SECRETARY - DIRECTOR

Mr. Paul Eaton
Hinkle, Bondurant, Cox & Eaton
Attorneys at Law
Post Office Box 10
Roswell, New Mexico 88201

Re: Case No. 4984

Order No. R-4551

Applicant:

Monsanto Company

Dear Sir:

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

Very truly yours,

A. L. Porter

A. L. PORTER, Jr.
Secretary-Director

ALP/ir

Copy of order also sent to:

Hobbs OCC x
Artesia OCC x
Aztec OCC

Other _____

dearnley, meier & mc cormick

209 SIMMS BLDG., P.O. BOX 1092, PHONE 243-6691, ALBUQUERQUE, NEW MEXICO 87103
1216 FIRST NATIONAL BANK BLDG., EAST ALBUQUERQUE, NEW MEXICO 87108

PAGE 2

BEFORE THE
NEW MEXICO OIL CONSERVATION COMMISSION
OIL CONSERVATION COMMISSION CONFERENCE ROOM
STATE LAND OFFICE BUILDING
SANTA FE, NEW MEXICO
Wednesday, June 6, 1973

EXAMINER HEARING

IN THE MATTER OF:

Application of Monsanto
Company for a dual
completion, Eddy County,
New Mexico.

Case No. 4984

BEFORE: Richard L. Stamets
Examiner

TRANSCRIPT OF HEARING

1 MR. STAMETS: We will call next Case 4984.

2 MR. CARR: Case 4984, application of Monsanto Company
3 for a dual completion, Eddy County, New Mexico.

4 MR. EATON: Paul Eaton of the firm of Hinkle,
5 Bondurant, Cox & Eaton, representing the Applicant.
6 We have one witness.

7 ED SCHOLL,
8 was called as a witness and after being duly sworn, according
9 to law, testified as follows:

10 DIRECT EXAMINATION

11 BY MR. EATON:

12 Q Please state your name and occupation.

13 A My name is Ed Scholl. I am District Petroleum Engineer
14 for Monsanto Company in Midland, Texas.

15 Q Mr. Scholl, have you previously testified before this
16 Commission as a Petroleum Engineer?

17 A Yes, I have.

18 Q Are you familiar with the application in this matter?

19 A Yes, I am.

20 MR. STAMETS: Go ahead. He is qualified.

21 Q (By Mr. Eaton) What does Monsanto seek by this application?

22 A Monsanto seeks to dually complete our Miller Federal
23 Number 1 in the Atoka and the Morrow formations.

24 Q Mr. Scholl, I direct your attention to an exhibit which
25

1 has been marked for identification as Exhibit Number 1.
2 Would you please explain that exhibit?

3 A Yes. Exhibit 1 is a plat of the Burton Flat area which
4 shows among other things the locality of the subject
5 Miller Federal Number 1 circled in red. It shows the
6 offset wells that are producing, are completed, are
7 drilling; and it shows the offset operators.

8 Q Did you send copies of your application in this case to
9 the offset operators?

10 A Yes, I did.

11 Q Would you please give the Commission a history of the
12 Miller Federal Number 1 Well?

13 A Yes. This well was spudded on February the 26th, 1973,
14 and completed, or the TD was reached on April the 6th,
15 1973.

16 At that point, we had drilled the well to a depth
17 of 11,510 feet; and we set 5-1/2 inch casing at that time
18 and proceeded to complete the well in the Atoka and the
19 Morrow zones.

20 Q Mr. Scholl, would you direct your attention to what has
21 been marked for identification as Exhibit Number 2 and
22 please explain that exhibit?

23 A Yes. Exhibit Number 2 is a diagramatic sketch of the
24 Miller Federal Number 1 dual completion as it is. It
25 shows that the surface casing which was 13-3/8 inch casing

1 was set at 603 feet and cemented to the surface with
2 600 sacks of cement.

3 The intermediate pipe was 9-5/8 inch casing set at
4 2,788 feet into the top of the Delaware and cemented to
5 the surface with 1100 sacks of cement.

6 The next thing it shows is the 5-1/2 inch casing
7 which was set on bottom at 11,510 feet, cemented with
8 550 sacks of cement and the top of the cement was
9 indicated at 10,000 feet.

10 The Morrow perforations are from 11,304 feet to
11 11,310 feet and is routed through the casing into the
12 tubing which is set at 11,137 feet and is 2-7/8 inch
13 tubing to the surface.

14 A packer is set at 11,126 feet which completely
15 segregates the Atoka from the Morrow zones. And also
16 indicated on this exhibit is the Otis on-an-off tool
17 which is set at 11,118 feet, the slide-door sleeve at
18 11,104 feet, and also a blast joint which opens the
19 Atoka perforation to prevent erosion.

20 The next thing that it shows is that the Atoka
21 production is routed through the annulus of the 5-1/2
22 pipe and the 2-7/8 inch tubing to the surface, from
23 perforations at 10,658 feet to 10,668 feet, a ten-foot
24 interval.

25 The other indications of this exhibit is that the

1 top of the Atoka is at 10,515 feet and the top of the
2 Morrow is 11,003 feet, and the base at 11,434 feet, which
3 is also the top of the Barnett. That's about all that
4 I have on that.

5 Q All right. Mr. Scholl, have you filed a Packer-setting
6 Affidavit with the Commission?

7 A Yes, I have.

8 Q Prior to the multiple completion of this well, did
9 Monsanto make any pressure tests of the casing to determine
10 the absence of casing leaks.

11 A Yes, we did.

12 Q Have you made a Packer Leakage Test on the well?

13 A Yes. We have submitted a Packer Leakage Test form to
14 the Commission, and it indicates that we had very good
15 separation between zones. We did this testing in
16 conjunction with the Four-Point Tests on each well, each
17 zone.

18 We left the well shut-in overnight. We recorded
19 the tubing and the annulus pressure and then we opened
20 up the Morrow for four hours and recorded the pressures
21 on the annulus which did not vary but I think six
22 pounds while we were taking the Four-Point on the Morrow.

23 Incidentally, the Four-Point of the Morrow
24 calculated to be 5,431,000 cubic feet a day. This was,
25 the highest rate that we flowed it at was 3,000,413

1 cubic feet a day, and we still had 2306 pounds on the
2 tubing.

3 So we did have a little more to go. The next thing
4 we did was shut-in the Morrow and noted the build-up
5 and then opened up the annulus, and we only got a
6 two-pound increase in the Morrow pressure while we
7 lowered the annulus pressure. So this is a very good
8 indication of good Packer setting.

9 Incidentally, also on the Atoka we had at that time,
10 we took a Four-Point and calculated an absolute open flow
11 of 4,563,000 cubic feet a day.

12 Q Was the Commission notified of the Packer Leakage Test
13 before it was taken?

14 A Yes.

15 Q Did you say that you had filed with the Commission the
16 results of the test?

17 A Yes, sir.

18 Q Has the Packer been disturbed at all since the test was
19 taken?

20 A No, it hasn't.

21 Q In your opinion, will the Packer effectively prevent
22 communication between the two producing formations?

23 A Yes, it will.

24 Q Has any metering and testing equipment been installed
25 to determine the reservoir pressures from the two

1 formations, amount of production, gas-oil ratios?

2 A This well is presently shut-in awaiting a pipeline for
3 gas sales. We have installed a heater, separator, and
4 are awaiting the pipeline to install metering facilities
5 on each of the zones.

6 Q Can the gas from the Atoka and the gas from the Morrow
7 be safely and efficiently produced through the tubing
8 as the Morrow production and through the tubing casing
9 annulus as to the Atoka production?

10 A Yes.

11 Q In your opinion, will the granting of the application
12 be in the interest of conservation and prevent waste?

13 A Yes.

14 MR. EATON: We offer Applicant's Exhibits 1 and 2
15 into evidence.

16 MR. STAMETS: Without objection these exhibits will
17 be admitted into evidence.

18 MR. EATON: I have no further questions.

19 CROSS-EXAMINATION

20 BY MR. STAMETS:

21 Q Mr. Scholl, what are the bottomhole pressures on the
22 two zones?

23 A The bottomhole pressure of the Morrow is 4711 pounds, and
24 the Atoka is 5178 pounds. These have been determined
25 through drill stem testing.

1 Q Was the Atoka an over-pressure, or is it just that the
2 Morrow has declined?

3 A It's an over-pressure. We have the Strawn in one of the
4 other wells which is above the Atoka. It was at 5230
5 pounds, I believe, right at 5200 pounds. And this is
6 the bad thing about it. In drilling the wells, we do reach
7 these abnormally high pressures in the Atoka and the
8 Strawn; and for some reason, the Morrow original pressure
9 was 4700 pounds in all our wells, which I don't know
10 how to explain why.

11 We have these anomalies in pressures, but it does
12 make it difficult to drill.

13 Q The Packer that you have installed here is sufficient
14 to separate the two zones of this pressure differential?

15 A Yes, sir. It is.

16 Q Does either of the zones make liquids?

17 A The ratio of both zones is about 147,000 to 1; and it's
18 very nill liquids, about a half a barrel per million,
19 in that magnitude. Unlike the Strawn, the Atoka is dry.

20 Q I notice on the Exhibit Number 2 at 11,003 feet it's
21 identified as the top of the Morrow formation?

22 A Yes.

23 Q And on a log on the Compensated Neutron Formation Density
24 Log which was submitted as a part of this application,
25 that is identified as the lower Morrow. Let me go ahead

1 with my question here and maybe get it.

2 Is it your testimony that the Morrow formation may
3 extend above 11,003 feet but is below the perforated
4 interval which you have identified as Atoka on your
5 exhibit?

6 A Yes, sir. It is. Our interpretation of the top of the
7 Morrow Limestone, or some people call it Lime, is at
8 10,854. It's a rather subtle change on the log.

9 It is well below the Atoka. The problem in, we have
10 been dealing with lower Morrow formations; and there is
11 a section of Morrow above this, what we have been picking
12 as the lower Morrow. You might say that the top of the
13 Morrow is at 10,854 feet.

14 Q We won't take the top of the Morrow for all time today.

15 MR. STAMETS: Are there any other questions of this
16 witness? He may be excused. Are there any further
17 statements in this case? We will take the case under
18 advisement and take about a fifteen-minute coffee break.

19 (Whereupon, a fifteen-minute recess was held.)

20 * * * * *

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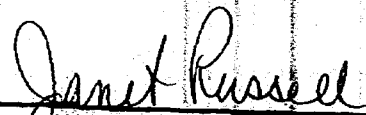
dearlnley, meier & mc cormick

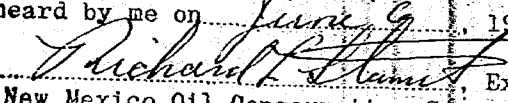
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1216 FIRST NATIONAL BANK BLDG. EAST • ALBUQUERQUE, NEW MEXICO 87108

PAGE 11

1 STATE OF NEW MEXICO)
2) ss
3 COUNTY OF BERNALILLO)

4 I, JANET RUSSELL, a Notary Public, in and for the
5 County of Bernalillo, State of New Mexico, do hereby certify
6 that the foregoing and attached Transcript of Hearing before
7 the New Mexico Oil Conservation Commission was reported by
8 me; and that the same is a true and correct record of the
9 said proceedings to the best of my knowledge, skill and
10 ability.

11 
12 NOTARY PUBLIC

13 I do hereby certify that the foregoing is
14 a complete record of the proceedings in
15 the Examiner hearing of Case No. 4984
16 heard by me on June 9, 1973.
17 , Examiner
18 New Mexico Oil Conservation Commission
19
20
21
22
23
24
25

I N D E XWITNESSPAGE

ED SCHOLL

Direct Examination by Mr. Eaton

3

Cross-Examination by Mr. Stamets

8

E X H I B I T SOfferedAdmitted

Applicant's Exhibit #1

8

8

Applicant's Exhibit #2

8

8

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. 4984
Order No. R-4551

APPLICATION OF MONSANTO COMPANY
FOR A DUAL COMPLETION, EDDY
COUNTY, NEW MEXICO.

ORDER OF THE COMMISSION

BY THE COMMISSION:

This cause came on for hearing at 9 o'clock a.m. on June 6, 1973, at Santa Fe, New Mexico, before Examiner Richard L. Stamets.

NOW, on this 15th day of June, 1973, 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, Monsanto Company, seeks authority to complete its Miller Federal Well No. 1, located in Unit G of Section 3, Township 21 South, Range 27 East, NMPM, Eddy County, New Mexico, as a dual completion (conventional) to produce gas from an undesignated Atoka gas pool and from the Burton Flat-Morrow Gas Pool through the casing-tubing annulus and tubing, respectively.

(3) That the mechanics of the proposed dual completion are feasible and in accord with good conservation practices.

(4) That approval of the subject application will prevent waste and protect correlative rights.

IT IS THEREFORE ORDERED:

(1) That the applicant, Monsanto Company, is hereby authorized to complete its Miller Federal Well No. 1, located in Unit G of Section 3, Township 21 South, Range 27 East, NMPM, Eddy County, New Mexico, as a dual completion (conventional) to produce gas from an undesignated Atoka gas pool and from the Burton Flat-Morrow Gas Pool through the casing-tubing annulus and through 2 7/8-inch tubing, respectively.

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:

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Order No. R-4551

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NOW, on this 15th day of June, 1973, 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, Monsanto Company, seeks authority to complete its Miller Federal Well No. 1, located in Unit G of Section 3, Township 21 South, Range 27 East, NMPM, Eddy County, New Mexico, as a dual completion (conventional) to produce gas from an undesignated Atoka gas pool and from the Burton Flat-Morrow Gas Pool through the casing-tubing annulus and tubing, respectively.

(3) That the mechanics of the proposed dual completion are feasible and in accord with good conservation practices.

(4) That approval of the subject application will prevent waste and protect correlative rights.

IT IS THEREFORE ORDERED:

(1) That the applicant, Monsanto Company, is hereby authorized to complete its Miller Federal Well No. 1, located in Unit G of Section 3, Township 21 South, Range 27 East, NMPM, Eddy County, New Mexico, as a dual completion (conventional) to produce gas from an undesignated Atoka gas pool and from the Burton Flat-Morrow Gas Pool through the casing-tubing annulus and through 2 7/8-inch tubing, respectively.

-2-

Case No. 4984
Order No. R-4551

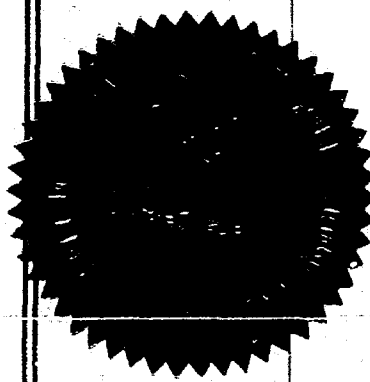
PROVIDED HOWEVER, that the applicant shall complete, operate, and produce said well in accordance with the provisions of Rule 112-A of the Commission Rules and Regulations insofar as said rule is not inconsistent with this order;

PROVIDED FURTHER, that the applicant shall take packer-leakage tests upon completion and annually thereafter during the Annual Gas Well Shut-In Pressure Test Period.

(2) 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.

STATE OF NEW MEXICO
OIL CONSERVATION COMMISSION



I. R. Trujillo
I. R. TRUJILLO, Chairman

Alex J. Armijo
ALEX J. ARMISO, Member

A. L. Porter, Jr.
A. L. PORTER, Jr., Member & Secretary

S E A L

dr/

DOCKET: EXAMINER HEARING - WEDNESDAY - JUNE 6, 1973

9 A.M. - OIL CONSERVATION COMMISSION 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:

- ALLOWABLE:** (1) Consideration of the allowable production of gas for July, 1973, from seventeen prorated 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 July, 1973.

CASE 4982: Application of Brunson and McKnight for a unit agreement, Lea County, New Mexico. Applicant, in the above-styled cause, seeks approval of the Ojo Chiso Unit Area comprising 5,120 acres, more or less, of Federal and State lands in Township 22 South, Range 34 East, Lea County, New Mexico.

CASE 4983: Application of Gulf Oil Corporation for simultaneous well dedication and non-standard locations, Lea County, New Mexico. Applicant, in the above-styled cause, seeks approval for the simultaneous dedication of two wells to a standard 640-acre gas proration unit comprising all of Section 35, Township 21 South, Range 36 East, Eumont Gas Pool, Lea County, New Mexico, said wells being the W. A. Ramsay (NCT-A) Wells Nos. 20 and 7 at non-standard locations in the center of Units E and N, respectively, of said Section 35.

CASE 4749: (Reopened)

In the matter of Case No. 4749 being reopened pursuant to the provisions of Order No. R-4338, which order established special rules and regulations for the Humble City-Strawn Pool, Lea County, New Mexico, including a provision for 80-acre proration units. All interested parties may appear and show cause why said pool should be developed on other than 40-acre units.

CASE 4984: Application of Monsanto Company for a dual completion, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks authority to dually complete its Miller Federal Well No. 1 located in Unit G of Section 3, Township 21 South, Range 27 East, Eddy County, New Mexico, in such a manner as to produce gas from undesignated Atoka gas pool and from the Burton Flat-Morrow Gas Pool through the casing-tubing annulus, and tubing, respectively.

CASE 4967: (Continued and readvertised from the May 9, 1973 Examiner Hearing)

Application of John M. Etcheverry for dissolution of a standard proration unit and the creation of two non-standard proration units, Lea County, New Mexico. Applicant, in the above-styled cause, seeks

(Case 4967 continued from page 1)

the dissolution of the standard 160-acre proration unit comprising the SW/4 of Section 29, Township 14 South, Range 34 East, West Tres Papalotes-Pennsylvanian Pool, Lea County, New Mexico, dedicated to the Mark Production Company Etcheverry Well No. 1 located in Unit L of said Section 29, and the creation of two non-standard 80-acre proration units, one comprising the N/2 and the other the S/2 of the SW/4 of said Section 29; the first unit would be dedicated to the aforesaid Etcheverry Well No. 1 and the second unit would be dedicated to a well proposed to be drilled in Unit M of said Section 29.

CASE 4985: Application of Union Oil Company of California for a unit agreement, Lea County, New Mexico. Applicant, in the above-styled cause, seeks approval of the Pipeline Deep Unit Area comprising 3,862 acres, more or less, of federal lands in Township 19 South, Range 34 East, Lea County, New Mexico.

CASE 4986: Application of Dalport Oil Corporation for compulsory pooling, Chaves County, New Mexico. Applicant, in the above-styled cause, seeks an order pooling all mineral interests in the Queen formation underlying the E/2 of Section 17, Township 12 South, Range 31 East, Chaves County, New Mexico, to be dedicated to a well to be drilled in Unit G of said Section 17. Also to be considered will be the cost of drilling said well, a charge for the risk involved, a provision for the allocation of actual operating costs, the establishment of charges for supervision of said well, and the designation of applicant as operator.

CASE 4987: Application of Texaco Inc. for down-hole commingling, Lea County, New Mexico. Applicant, in the above-styled cause, seeks authority to commingle production from the Blinebry, Tubb, and Drinkard Oil Pools in the wellbore of its A. H. Blinebry Well No. 20 located in Unit E of Section 20, Township 22 South, Range 38 East, Lea County, New Mexico.

CASE 4988: Application of Texaco Inc. for down-hole commingling, Lea County, New Mexico. Applicant, in the above-styled cause, seeks authority to commingle production from the Tubb and Drinkard Oil Pools in the wellbore of its A. H. Blinebry Well No. 28 located in Unit A of Section 29, Township 22 South, Range 38 East, Lea County, New Mexico.

CASE 4989: In the matter of the hearing called by the Oil Conservation Commission upon its own motion to consider the amendment of the general rules governing prorated gas pools in Northwest and Southeast New Mexico as promulgated by Order No. R-1670, as amended. Rule 15 of the aforesaid general rules would be amended to provide that if a well is

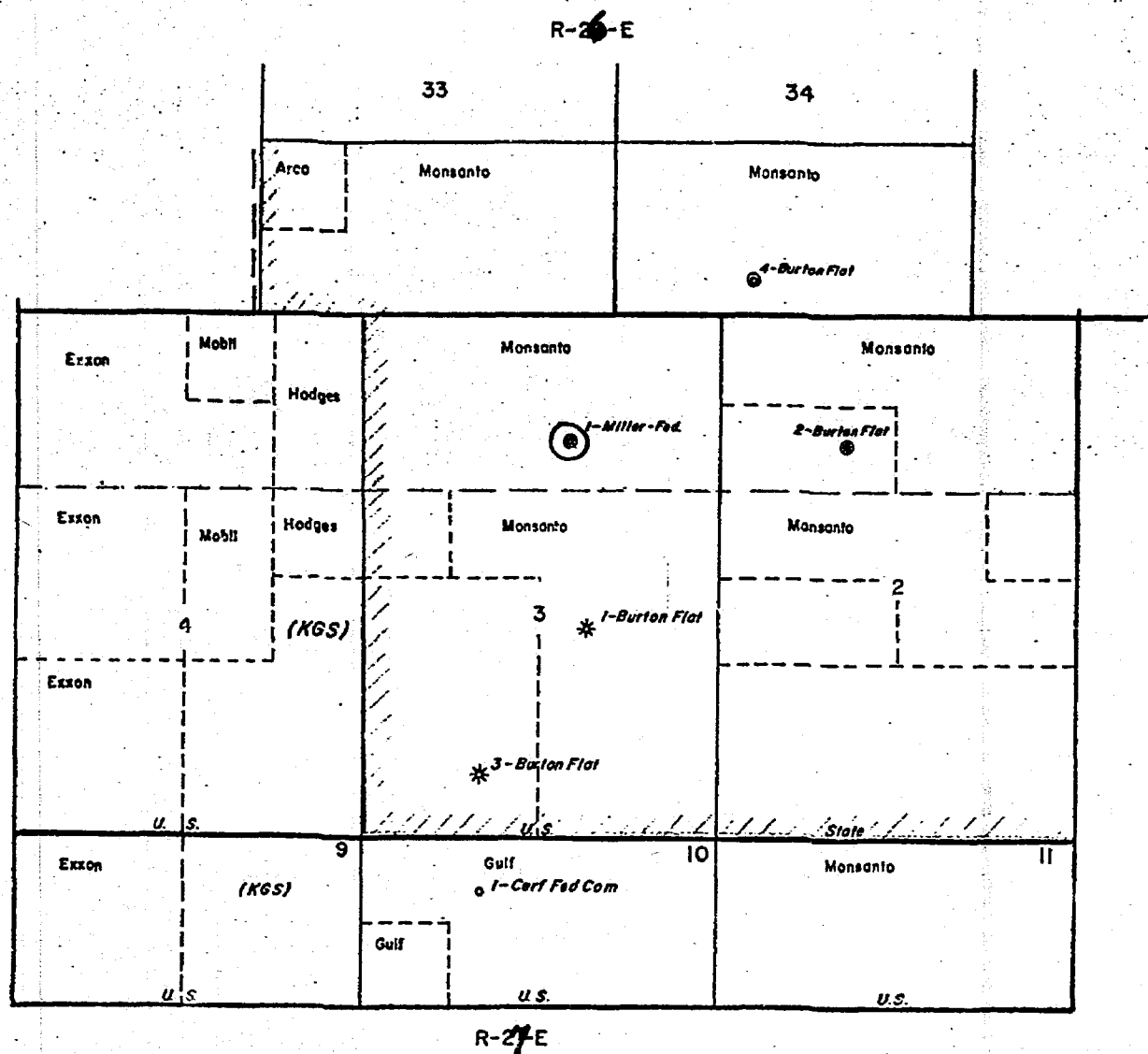
(Case 4989 continued from page 2)

overproduced in an amount exceeding six times its average monthly allowable for the preceding twelve months (or, in the case of a newly connected well or a well in a newly prorated pool, six times its average monthly allowable for the months available), it shall be shut in during that month and each succeeding month until it is overproduced in an amount less than six times its average monthly allowable, as determined above.

Rule 15 would be further amended to permit the Secretary-Director of the Commission to grant a pool-wide moratorium of up to three months on the shutting in of gas wells during periods of high demand emergency if a significant number of the wells in the pool are subject to being shut in.

CASE 4966: (Continued from the May 23, 1973 Examiner Hearing)

Application of Read & Stevens, Inc. for compulsory pooling, Chaves County, New Mexico. Applicant, in the above-styled cause, seeks an order pooling all mineral interests underlying the N/2 of Section 36, Township 12 South, Range 30 East, Chaves County, New Mexico, to be dedicated to a well to be drilled to the Queen formation in Unit B of said Section 36, in the Southeast Chaves Queen Gas Area. Also to be considered will be the cost of drilling and completing said well and the allocation of such costs as well as actual operating costs and charges for supervision. Also to be considered is the designation of applicant as operator of the well and a 200 percent charge for risk involved in drilling said well.



//// Outline of Burton Flat Deep Unit
(Monsanto, operator)

BURTON FLAT AREA

Eddy County, New Mexico
MONSANTO COMPANY

Scale: 1"=2500'

BEFORE EXAMINER STAMETS
OIL CONSERVATION COMMISSION

EXHIBIT NO. 1

CASE NO. 4984

Submitted MONSANTO CO

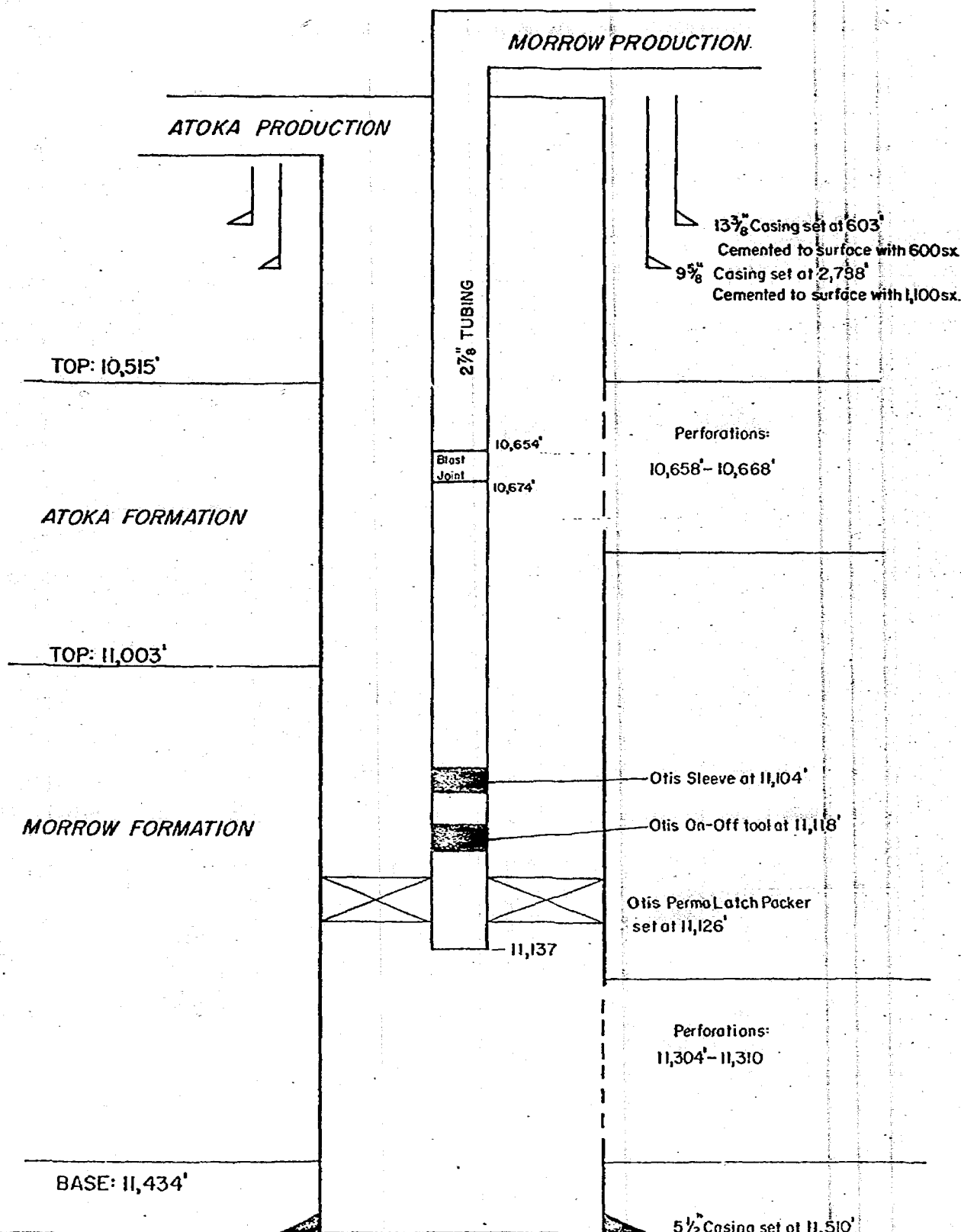
Hearings 6/6/73

MONSANTO COMPANY

Miller Federal No. 1

Eddy Co. New Mexico

Diagrammatic Sketch of Dual Completion



BEFORE EXAMINER STAMETS
OIL CONSERVATION COMMISSION

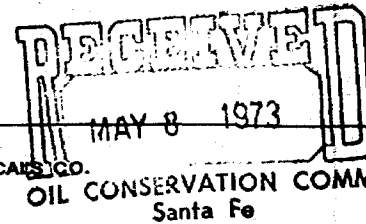
EXHIBIT NO. 2

CASE NO. 4984

Submitted by MONSANTO CO

Hearing Date 6/6/77

Monsanto



MONSANTO POLYMERS & PETROCHEMICALS CO.

317 First Savings & Loan Building

101 North Marienfeld

Midland, Texas 79701

Phone: (915) 683-3306

May 4, 1973

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

Case 4984

Attn: Mr. A. L. Porter, Jr.
Secretary Director

RE: Dual Atoka-Morrow Completion
Monsanto Company
Miller Federal #1
1600' FNL & 1980' FEL
Sec. 3, T-21S, R-27E
Eddy County, New Mexico

Gentlemen:

Monsanto Company respectfully requests approval to dually gas - gas complete the captioned well through 2 7/8" tubing and the 5 1/2" casing annulus. Enclosed are copies of:

1. C-107
2. Diagrammatic Sketch
3. Plat of Offset Operators
4. Logs

Copies of this application were mailed to the listed offset operators. We would appreciate setting the matter for Examiners Hearing at the earliest possible date.

Please advise if you require any additional information.

Yours very truly,

DOCKET MAILED

MONSANTO COMPANY

A. W. Wood
A. W. Wood
District Production Manager

Date *5-25-73*

AWW:EMS:mm
Encls.

cc to: Exxon Co., U.S.
Box 1600
Midland, Texas 79701

L. B. Hodges
P.O. Box 1558
Roswell, New Mexico 88201

Mobil Oil Corp.
Box 633
Midland, Texas 79701

Paul Eaton
P.O. Box 10
Roswell, New Mexico 88201

New Mexico Oil Cons. Comm.
P.O. Drawer DD
Artesia, New Mexico 88210
Attn: Bill Gresset

Atlantic Richfield Co.,
Box 1610
Midland, Texas 79701

a unit of Monsanto Company

NEW MEXICO OIL CONSERVATION COMMISSION
SANTA FE, NEW MEXICO
APPLICATION FOR MULTIPLE COMPLETION

Form C-107
5-1-61

Case 4984

Operator MONSANTO COMPANY ✓		County EDDY	Date May 4, 1973
Address 101 N. Marienfeld, Midland, Texas		Lease MILLER - FEDERAL	Well No. 1
Location of Well	Unit G	Section 3	Township 21S
			Range 27E

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	Atoka		Morrow
b. Top and Bottom of Pay Section (Perforations)	10,658 - 10,668'		11,304 - 11,310'
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 check YES or NO)

Yes	No	
<input checked="" type="checkbox"/>	<input type="checkbox"/>	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.
<input checked="" type="checkbox"/>	<input type="checkbox"/>	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.
<input type="checkbox"/>	<input checked="" type="checkbox"/>	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.*
<input checked="" type="checkbox"/>	<input type="checkbox"/>	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.

L. B. Hodges, P.O. Box 1558, Roswell, New Mexico 88201

Exxon Co., U.S., Box 1600, Midland, Texas 79701

Mobil Oil Corp., Box 633, Midland, Texas 79701

Atlantic Richfield Co., Box 1610, 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 _____.

CERTIFICATE: I, the undersigned, state that I am the District Prod. Manager of the Monsanto Company (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.

A. W. Wood
A. W. Wood Signature

*Should waivers from all offset operators not 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-day period, no protest nor 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 proration unit in one or more of the producing zones, then separate application for approval of the same should be filed simultaneously with this application.

NEW MEXICO OIL CONSERVATION COMMISSION
SANTA FE, NEW MEXICO
APPLICATION FOR MULTIPLE COMPLETION

Form C-107
5-1-61

Case 4984

Operator MONSANTO COMPANY		County EDDY	Date May 4, 1973
Address 101 N. Marienfeld, Midland, Texas		Lease MILLER - FEDERAL	Well No. 1
Location of Well G	Unit 3	Township 21S	Range 27E

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	Atoka		Morrow
b. Top and Bottom of Pay Section (Perforations)	10,658 - 10,668'		11,304 - 11,310'
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 check YES or NO)

- | | | |
|-------------------------------------|-------------------------------------|---|
| Yes | No | |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | 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. |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | 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. |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | 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.* |
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L. B. Hodges, P.O. Box 1558, Roswell, New Mexico 88201

Exxon Co., U.S., Box 1600, Midland, Texas 79701

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NEW MEXICO OIL CONSERVATION COMMISSION
SANTA FE, NEW MEXICO
APPLICATION FOR MULTIPLE COMPLETION

Form C-107
5-1-61

Operator MONSANTO COMPANY		County KIDDY	Date May 4, 1973
Address 101 N. Marienfeld, Midland, Texas		Lease MILLER - FEDERAL	Well No. 1
Location of Well G	Unit 3	Township 21S	Range 27E

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 ☒
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	Atoka		Morrow
b. Top and Bottom of Pay Section (Perforations)	10,658 - 10,668'		11,304 - 11,310'
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 check YES or NO)

- | | | |
|-------------------------------------|-------------------------------------|---|
| Yes | No | |
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L. B. Hodges, P.O. Box 1558, Roswell, New Mexico 88201

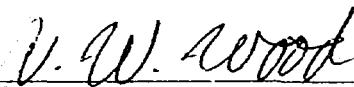
Exxon Co., U.S., Box 1600, Midland, Texas 79701

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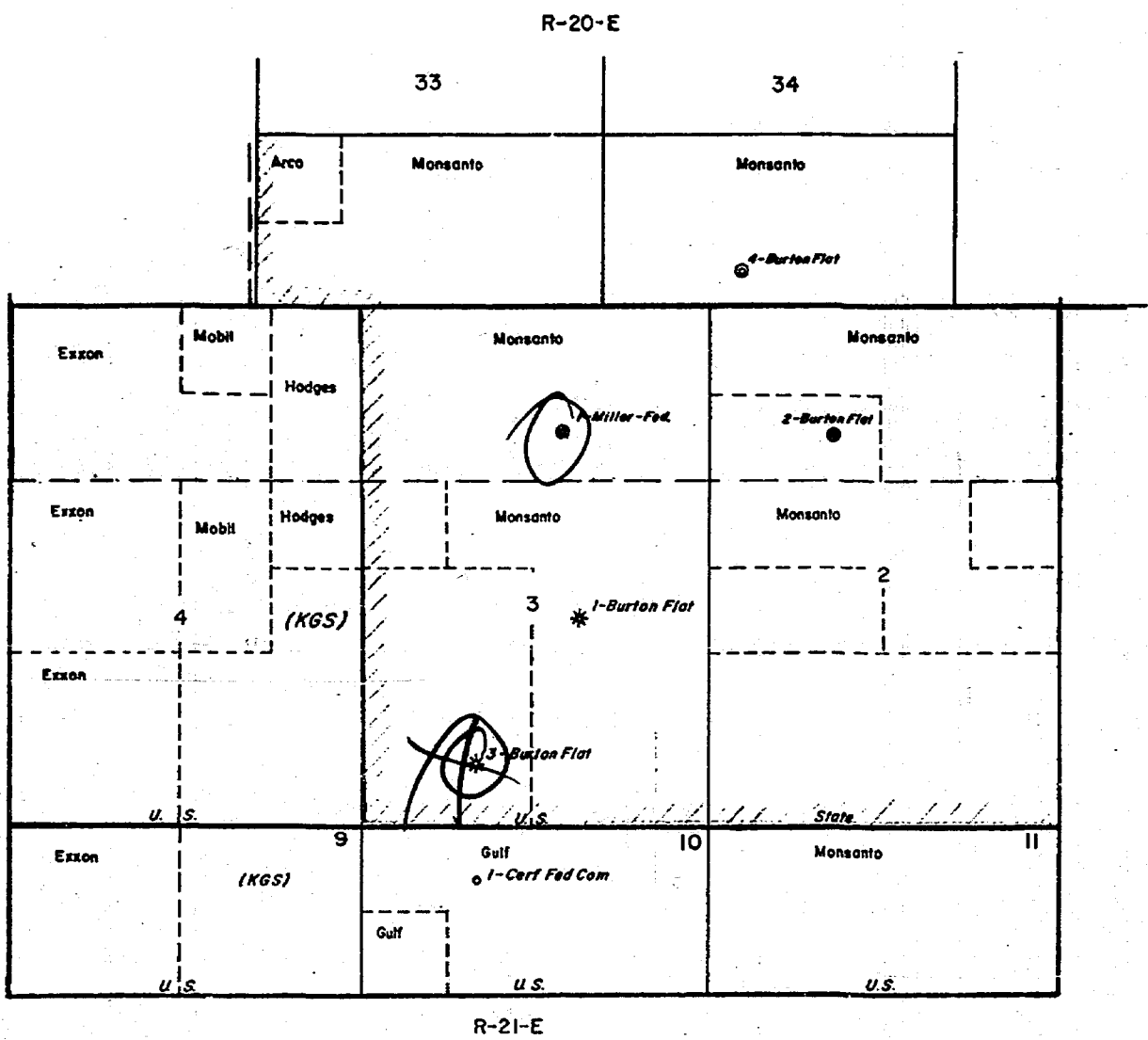

A. W. Wood Signature

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Chas H 974

T
21
S



Outline of Burton Flat Deep Unit
(Monsanto, operator)

BURTON FLAT AREA
Eddy County, New Mexico
MONSANTO COMPANY

Scale: 1"=2500'

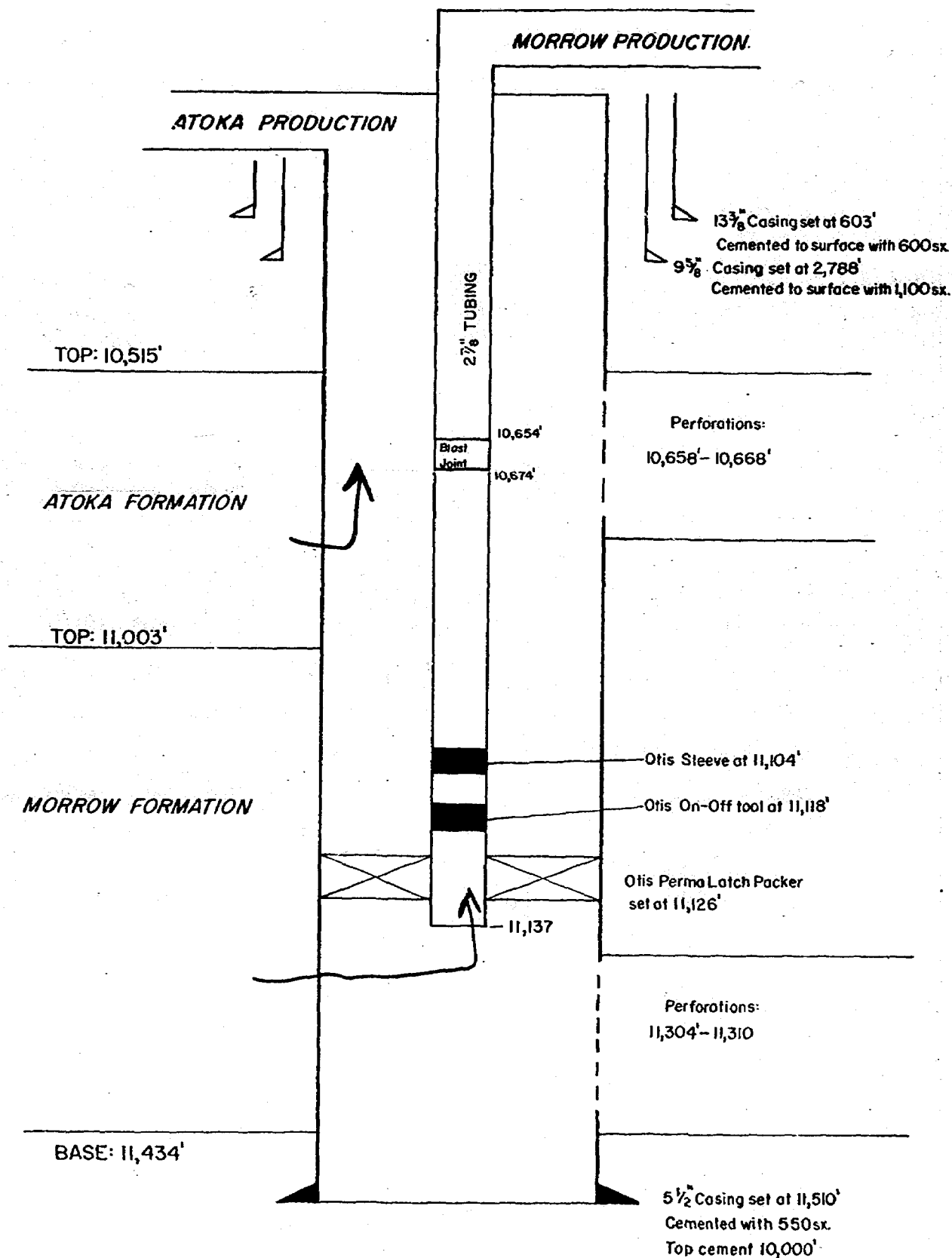
Case 4984

MONSANTO COMPANY

Miller Federal No. 1

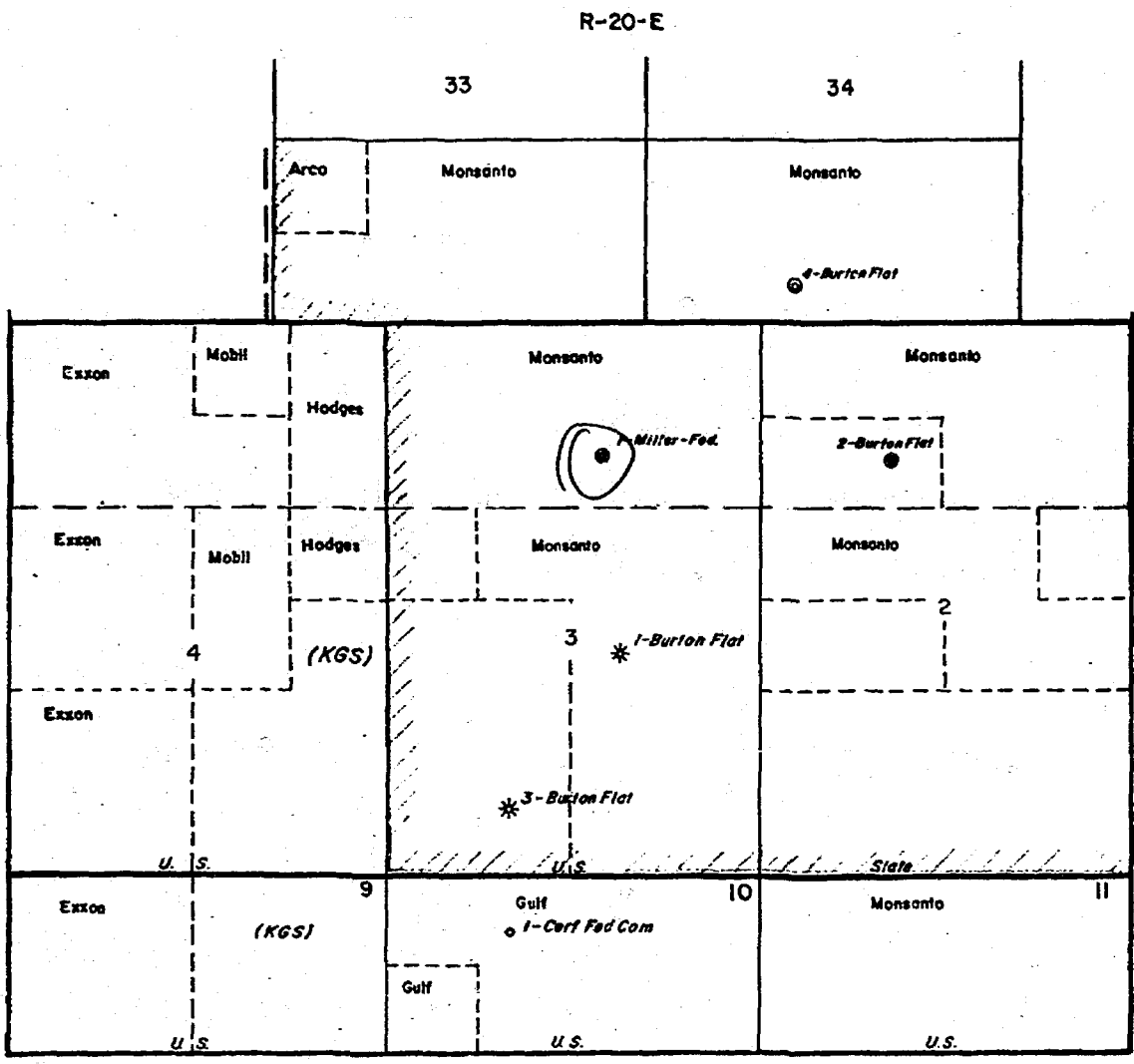
Eddy Co. New Mexico

Diagrammatic Sketch of Dual Completion



Case 4984

T
21
S



//// Outline of Burton Flat Deep Unit
(Monsanto, operator)

BURTON FLAT AREA
Eddy County, New Mexico
MONSANTO COMPANY

Scale: 1"=2500'

DRAFT

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. 4984

Order No. R-4551

APPLICATION OF MONSANTO COMPANY
FOR A DUAL COMPLETION, EDDY COUNTY,
NEW MEXICO.

ORDER OF THE COMMISSION

BY THE COMMISSION:

This cause came on for hearing at 9 o'clock a.m. on
June 6, 1963, at Santa Fe, New Mexico, before Examiner
Richard L. Stamets.

NOW, on this day of June, 1963, 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, Monsanto Company,
seeks authority to complete its Miller Federal
Well No. 1, located in Unit G of Section 3, Township

21 South, Range 27 East, NMPM, Eddy County, New
~~xxxxx~~ ~~xxxxx~~

Mexico, as a dual completion (conventional) ~~xxxxx~~
(combination) to produce gas
(tubingless)
from an undesignated ~~xxxxx~~ gas pool and
from the Burton Flat-Morrow Gas Pool through the
casing-tubing annulus, and ~~xxxxx~~ respectively.

(3) That the mechanics of the proposed dual completion are feasible and in accord with good conservation practices.

(4) That approval of the subject application will prevent waste and protect correlative rights.

IT IS THEREFORE ORDERED:

(1) That the applicant, Monsanto Company,
is hereby authorized to complete its Miller Federal
Well No. 1, located in Unit G of Section 3, Township
21 ~~South~~ ^{North}, Range 27 ~~East~~ ^{West} NMPM, Eddy County, New
Mexico, as a dual completion (conventional) ~~combination~~ ^{xxxxx} to produce gas
~~from and undesignated Atocha gas pool and~~
from the Burton Flat-Morrow Gas Pool through the
casing-tubing annulus ~~and through 2 7/8-inch tubing~~ ^{and through 2 7/8-inch tubing} respectively.

PROVIDED HOWEVER, 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;

PROVIDED FURTHER, that the applicant shall take ~~zone-segregation~~
tests upon completion and annually thereafter during the Annual
Gas Well Shut-In Pressure Test Period.
~~Gas Oil Ratio Test Period for the~~ Pool
~~Deliverability~~

(2) 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 herein-
above designated.