

CASE 4950: Appli. of NOMBANKO FOR  
A DUAL COMPLETION, EDDY COUNTY,  
NEW MEXICO.

CASE No.

4950

---

Application,

Transcripts,

Small Exhibits

ETC.

dearnley, meier &amp; mc cormick

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

BEFORE THE  
NEW MEXICO OIL CONSERVATION COMMISSION  
MORGAN HALL  
STATE LAND OFFICE BUILDING  
SANTA FE, NEW MEXICO  
April 25, 1973

## EXAMINER HEARING

IN THE MATTER OF:

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

Case No. 4950

BEFORE: Richard L. Stamets  
Examiner

TRANSCRIPT OF HEARING

dearnley, meier &amp; mc cormick

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1 MR. STAMETS: Call next Case 4950.

2 MR. CARR: Case 4950, 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, Roswell, New Mexico, representing the  
6 Applicant. 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 State your name, please.

13 A My name is Ed Scholl.

14 Q What is your occupation and for whom do you work?

15 A I am District Engineer for Monsanto Company in Midland,  
16 Texas.

17 MR. STAMETS: How do you spell your last name?

18 THE WITNESS: S C H O L L.

19 Q Have you previously testified before this Commission?

20 A No, sir. I haven't.

21 Q Would you please give a short resume of your educational  
22 background and your work experience?

23 A Yes. I'm a graduate of the University of Texas in 1956.

24 I went to work for Monsanto at that time. I spent a year  
25 on a training program, and I was permanently assigned to

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1 to Snyder, Texas, as in various capacities as a Petroleum  
2 Engineer. In 1960, I was transferred to Denver as a  
3 District Engineer for the Mountain States Region.

4 Two years ago, I was transferred to Midland as District  
5 Engineer for the Midland District, which includes the  
6 New Mexico and West Texas area.

7 Q What degree did you obtain in the University of Texas?

8 A I have a B.S. degree in Petroleum Engineering.

9 Q Are you familiar with the southern New Mexico area?

10 A Yes, I am.

11 MR. EATON: Are the qualifications of the witness  
12 acceptable?

13 MR. STAMETS: They are.

14 Q Are you familiar with the application in this case, Mr.  
15 Scholl?

16 A Yes, I am.

17 Q Would you please state what Mansanto seeks by its appli-  
18 cation?

19 A Mansanto seeks permission to duly complete the Burton Flat  
20 Unit Number 3 in the Morrow and Strawn formations.

21 Q I hand you what has been marked as Applicant's Exhibit No.  
22 1 and ask you to identify it, please.

23 A Yes, Exhibit No. 1 is a plat of the area of the Burton  
24 Flat Unit which includes the Burton Flat Unit Number 3.  
25 It shows the location of this well which is about five

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1 north of Carlsbad, and the well is located 1980 feet  
2 from the west line, 700 feet from the south line of  
3 Section 3, Township 21 South, Range 27 East. It shows  
4 the operators, the off-set operators, the adjacent wells,  
5 and the royalty owners.

6 Q Mr. Scholl, did you send copies of your application to  
7 the off-set operators?

8 A Yes, I did with the application.

9 Q Would you please give us the history of the Burton Flat  
10 Number 3 Well?

11 A Mansanto spudded the Burton Flat Number 3 on January 23rd,  
12 1973, reached a total depth of 11,546 on 3/18/73. And  
13 we did encounter a Strawn zone and a good Morrow zone,  
14 and the well was completed on 4/16/73.

15 Q Have you prepared a diagrammatic sketch of the well?

16 A Yes, I have. It's Exhibit No. 2.

17 Q Would you please explain Exhibit No. 2?

18 A Exhibit No. 2 shows the mechanics of the dual completion  
19 as they are. It shows the top of the Strawn formation  
20 at 10,062 feet. The base is at 10,280 feet with the  
21 perforations ranging from 10,280 feet down to 10,250.

22 The top of the Morrow is at 11,000 feet with the base  
23 at 11,439. The perforations are at 11,244 to 11,438.  
24 Total depth is 11,546 feet at which time the seven-inch  
25 casing was set at that depth, cemented with 400 sacks of

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1 cement with the indicated top at 9300 feet from the surface.

2 All centralizers were run through both formations above  
3 and below, and we did a very good cement job on this well.  
4 Other things shown on this diagramatic sketch is that the  
5 Otis W. B. Perm Packer is set at 10,800 feet with the  
6 bottom of tubing at 10,806.

7 The upper packer is set at 9980 feet and it is an  
8 Otis 7" RDH dual-type packer. The two strings of tubing  
9 are shown on this map, on this sketch, which the 2-7/8  
10 inch MAT tubing is being used to segregate the Morrow  
11 production to the surface and similarly 2-3/8 inch tubing  
12 is set on top of the Strawn in the dual packer. That's  
13 about all I have to say about that.

14 Q The exhibit also reflects your casing and cementing program  
15 for your surface and intermediate?

16 A Yes, sir. It does. Incidentally, we did have circulation  
17 both at the surface on both intermediate and surface.

18 Q Mr. Scholl, from the exhibit, it appears that the bottom  
19 of the tubing for the Morrow production is set more than  
20 250 feet above the top of the Morrow pay. Why was that  
21 done?

22 A Yes. We have the bottom of the tubing at some 448 feet  
23 above the top perforations in the Morrow. This was  
24 purposely done to make room for any additional perforations  
25

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1 that we might deem necessary at a latter date in the  
2 Morrow.

3 The Morrow's actual top is 11,000 feet; and there  
4 are scattered stringers throughout there that we didn't  
5 deem necessary to perforate at this time; but since it was  
6 a Perm Packer, we felt that we should set it far enough  
7 above that at any future date we could go in and per-  
8 forate through tubing.

9 Q Is there any likeliness of waste of gas because you have  
10 set it so much above?

11 A No, there isn't.

12 Q Does Monsanto ask that it be granted Rule 107-B-3?

13 A Yes. We would like to do that in this application.

14 Q Mr. Scholl, have you filed with the Commission Packer-  
15 Setting Affidavits for each of the Packers depicted on  
16 your Exhibit No. 2?

17 A Yes, I have.

18 Q Prior to the actual multiple completion of the well, did  
19 Mansanto make pressure tests of the casing to determine  
20 the absence of casing leaks?

21 A Yes, while we were, before we ran our tubing, we pressured  
22 up on the casing to 1500 pounds and it held very well. We  
23 have pressured up on it several other times during the  
24 process of completing the well.

25 Q Has Mansanto made a Packer leakage test on this well?



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1 A Yes, we have. And we have filed it with the Commission;  
2 and if I may, while we produced the lower zone which is  
3 the Morrow, we had an indication of very good Packer  
4 separation between the two formations. We only had a  
5 20-pound increase at the surface during the lowering of  
6 the Morrow, while we were producing the Morrow formation.

7 When we produced the Strawn formation, we had a  
8 -1 PSI change in the surface pressure of the Morrow which  
9 was probably just an inaccuracy of measuring it. And at  
10 the same time, we had a pressure recater on the other  
11 annulus which was zero throughout all this testing. So  
12 we have a very good segregated dual completion.

13 Q Had the Commission been notified of the test before it  
14 was taken?

15 A Yes.

16 Q And have you filed with the Commission the results of the  
17 test?

18 A Yes, I have.

19 Q Had the Packers been disturbed at all since the test was  
20 taken?

21 A No, they hadn't.

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

24 A Yes, they will.

25 Q Have you four-pointed this well?

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1 A Yes, on the 16th of this month, we ran in conjunction  
2 with the Packer leakage test a four-point to the Morrow  
3 and the Strawn. The results of the Strawn four-point  
4 indicated an absolute openflow of 1,334,000 cubic feet  
5 per day. At this point, I'd like to mention that the  
6 Strawn is a pretty rich condensate zone which during this  
7 four-point, we were unloading some of the condensate which  
8 gave us a rather, which I think might be a false GOR and  
9 that the GOR is 12,898 to one.

10 And I think it will be a gas well as we are, whenever  
11 we are able to produce the well in the line and then are  
12 required to do an additional four-point, I think it will  
13 become a gas well. We have made this application as a  
14 gas, gas dual; and we just have to have some production  
15 history to say whether or not it's going to become a  
16 gas well.

17 Q Well, if the Strawn would be classified as oil production,  
18 does that fact effect the mechanics of your completion?

19 A No, sir, it doesn't. All our diameters of the tubings  
20 meet the requirements of the Commission.

21 Q Is there anything else with respect to your four-point  
22 test?

23 A We also have the four-point on the Morrow which calculates  
24 out an absolute openflow of 8,125,000 cubic feet per day.  
25 And it is, of course, a dry, very little condensate in it.

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1 That's about it.

2 Q Mr. Scholl, have metering and testing equipment been  
3 installed to determine reservoir pressures from the two  
4 formations and the amount of production and the gas-oil  
5 ratios?

6 A By having this dual string, we can obtain very easily the  
7 reservoir formation by running a pressure bomb, and we  
8 are in the process of installing surface facilities that  
9 will segregate all production from those zones, and it  
10 will be metered separately, both gas and oil.

11 Q Can the gas or the oil, whatever it might be, from the  
12 Strawn and the gas from the Morrow be safely and efficiently  
13 produced through the two parallel strings of tubing?

14 A Yes, sir.

15 Q In your opinion, Mr. Scholl, will the granting of the  
16 application prevent waste and be in the interest of  
17 conservation?

18 A Yes, it will.

19 Q Have Exhibits 1 and 2 been prepared by you or under your  
20 supervision?

21 A Yes, they have.

22 MR. EATON: Mr. Examiner, we wish to introduce Exhibits  
23 1 and 2 into evidence.

24 MR. STAMETS: Without objection, they will be admitted  
25 into evidence.

1 MR. EATON: We have no further questions.

2 CROSS EXAMINATION

3 BY MR. STAMETS:

4 Q Mr. Scholl, do you have a GOR on the Morrow zone, or is  
5 that dry gas?

6 A It's dry gas.

7 Q No liquids?

8 A The four hours that we produced it, there was no liquids  
9 produced.

10 Q If liquids did become a problem, would you have to drill  
11 the well out and set a new Packer, new tubing and every-  
12 thing, or could you handle it in some other manner?

13 A We are set up where historically the Morrow, the graph  
14 of the gas indicates that it is relatively dry and there  
15 will be no problem of producing the liquids should they  
16 occur.

17 Q Do you have the pressures there handy on the two zones?

18 A Yes. We took a pressure of 5230 pounds on the Strawn and  
19 the DST pressure of a well offsetting in the Morrow is  
20 4700 pounds. We have not run a bomb in the Morrow yet,  
21 and we reasonably are assured that the pressure is 4700  
22 pounds.

23 So you have a higher pressure up above which made it  
24 necessary to weight up our mud to contain the Strawn and  
25 to drill the Morrow.

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1 Q The equipment you have in the hole will contain this  
2 pressure differential?

3 A Yes.

4 Q If the Strawn were instead an oil zone, could it be hurt  
5 by high rates of gas production at this time?

6 A No, sir. In my opinion, it won't. If I may compare the  
7 two zones, the Strawn is a relatively weak zone compared  
8 to the Morrow; and we only anticipate that the well will  
9 probably be able to produce against a thousand, anticipated  
10 1,000-pound pipeline of about 500 MCF a day.

11 Should it become an oil well, we would certainly  
12 anticipate that it would be treated as an oil well.

13 Q Would Mansanto have any objection to advising the Commis-  
14 sion by letter once each month for the first 90 days of  
15 production as to the current GOR and producing rates on  
16 this particular Strawn?

17 A No objection whatsoever. We would like to see the well  
18 clean up a little more into the line, Mr. Stamets.

19 MR. STAMETS: Are there any other questions of this  
20 witness?

21 (No response)

22 MR. STAMETS: He may be excused. Are there any other  
23 statements or testimony in this case?

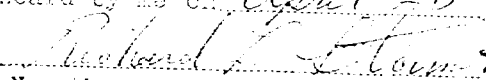
24 (No response)

25 MR. STAMETS: We will take the case under advisement.

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

3 I, JANET RUSSELL, a Certified Shorthand Reporter, do hereby  
 4 certify that the foregoing and attached Transcript of Hearing  
 5 before the New Mexico Oil Conservation Commission was reported  
 6 by me; and that the same is a true and correct record of the  
 7 said proceedings, to the best of my knowledge, skill and  
 8 ability.

9  
 10   
 11 CERTIFIED SHORTHAND REPORTER

12  
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 22 I do hereby certify that the foregoing is  
 23 a complete record of the proceedings in  
 24 the Enclosed hearing of Case No. 4950.  
 25 heard by me on April 6, 1973.  
  
 Examiner  
 New Mexico Oil Conservation Commission

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|    |                                       |                |                 |
|----|---------------------------------------|----------------|-----------------|
| 1  | <u>I N D E X</u>                      |                |                 |
| 2  | <u>WITNESS</u>                        |                | <u>PAGE</u>     |
| 3  | ED SCHOLL                             |                |                 |
| 4  | Direct Examination by Mr. Eaton       |                | 3               |
| 5  | Cross Examination by Mr. Stamets      |                | 11              |
| 6  | <u>EXHIBITS</u>                       | <u>Offered</u> | <u>Admitted</u> |
| 7  | Exhibit No. 1 - Plat of Burton Flat   |                |                 |
| 8  | Unit Area                             | 4              | 10              |
| 9  | Exhibit No. 2 - Diagramatic sketch of |                |                 |
| 10 | Burton Flat Number 3 Well             | 5              | 10              |
| 11 |                                       |                |                 |
| 12 |                                       |                |                 |
| 13 |                                       |                |                 |
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| 25 |                                       |                |                 |



# OIL CONSERVATION COMMISSION

STATE OF NEW MEXICO

**P. O. BOX 2088 - SANTA FE**

**07501**

**May 21, 1973**

GOVERNOR  
BRUCE KING  
CHAIRMAN

**LAND COMMISSIONER  
ALEX J. ARMIJO  
MEMBER**

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

Re: Case No. 4950

Order No. R-4516

**Applicant:**

**Monsanto Company**

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

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, Jr.

A. L. PORTER, Jr.  
Secretary-Director

ALP/ir

Copy of order also sent to:

Hobbs OCC     X    

Arteria OCC x

**Aztec OCC**

**Other** \_\_\_\_\_



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. 4950  
Order No. R-4516

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 April 25, 1973, at Santa Fe, New Mexico, before Examiner Richard L. Stamets.

NOW, on this 17th day of May, 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 Burton Flat Deep Unit Well No. 3, located in Unit V of Section 3, Township 21 South, Range 27 East, NMPM, Eddy County, New Mexico, as a dual completion (conventional) to produce gas from the Burton Flat-Morrow Gas Pool (extension) and gas and liquid hydrocarbons from an undesignated Strawn pool through parallel strings of 2 7/8-inch and 2 3/8-inch tubing, respectively.

(3) That additional testing is required to determine the exact nature of the Strawn reservoir and that the results of such test should be filed with the Commission.

(4) That the applicant proposes to set 2 7/8-inch Morrow production tubing approximately 438 feet above the Morrow perforations in order to permit the later perforation of additional zones in the Morrow formation without the necessity of killing extant producing zones.

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

-2-

Case No. 4950  
Order No. E-4516

(6) 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 Burton Flat Deep Unit Well No. 3, located in Unit V of Section 3, Township 21 South, Range 27 East, NMPM, Eddy County, New Mexico, as a dual completion (conventional) to produce gas from the Burton Flat-Morrow Gas Pool Extension and gas and liquid hydrocarbons from an undesignated Strawn pool through parallel strings of 2 7/8-inch and 2 3/8-inch tubing, respectively, the 2 7/8-inch Morrow production tubing to be set approximately 438 feet above the casing perforations.

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 for the Burton Flat-Morrow Gas Pool.

(2) That the applicant shall conduct such tests as are necessary to determine the nature of the Strawn reservoir within 80 days after connection of the Strawn zone to a gas transportation facility and shall file the results of such tests with both the Artesia and Santa Fe offices of the Commission no later than 90 days following the date of connection.

(3) 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, Chairman

  
ALEX J. ARMIJO, Member

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

S E A L

dr/

Case File

# Monsanto

MONSANTO POLYMERS & PETROCHEMICALS CO.  
317 First Savings & Loan Building  
101 North Marienfeld  
Midland, Texas 79701  
Phone: (915) 683-3306

October 9, 1973

RECEIVED

New Mexico Oil Conservation Commission  
P.O. Drawer DD  
Artesia, New Mexico 88210

Attn: Mr. Bill Gressett

OCT 10 1973

O. C. C.  
ARTESIA, OFFICE

RE: Burton Flat Unit No. 3  
Strawn Performance

3-21-27

Gentlemen:

In accordance with Commission Order R-4516, Monsanto Company submits the following production history of the Strawn reservoir in Burton Flat No. 3:

|              | BBLs.<br>CONDENSATE | GAS SALES - MCF |              | TOTAL  | GOR    |
|--------------|---------------------|-----------------|--------------|--------|--------|
|              |                     | SOUTHERN UNION  | TRANSWESTERN |        |        |
| July, 1973   | 47                  | 1281            | 0            | 1281   | 27,255 |
| August, 1973 | 785                 | 1202            | 18,801       | 20,003 | 25,481 |

Limited gas sales started on July 12, 1973 to Southern Union. Trans-western sales started on August 13, 1973.

Attached is a copy of the A.S.T.M. Distillation results on this 60.1° A.P.I. condensate. The high gravity indicates a condensate that is normally associated with a gas reservoir.

Monsanto Company respectfully requests that this reservoir be considered and produced as a gas reservoir.

Yours very truly,

MONSANTO COMPANY

*A. W. Wood*  
A. W. Wood

District Production Manager

AWW:EMS:mm  
Encl.

RECEIVED  
OCT 1 1973

D. L. C.  
CARTESIA, OFFICE

Midland, Texas 4-18-73 File No. C-1950-GD

Report of tests on Fluid  
To Monsanto Company Date Rec'd. 4-17-73  
Received from Monsanto Company  
Identification Marks Burton Flat No. 3, Strawn, Eddy County New Mexico,  
Fluid Sample

A.S.T.M. DISTILLATION

| <u>% Distilled</u> | <u>Temp. ° F</u> |
|--------------------|------------------|
| I.B.P. -----       | 106              |
| 5 -----            | 148              |
| 10 -----           | 166              |
| 20 -----           | 192              |
| 30 -----           | 214              |
| 40 -----           | 229              |
| 50 -----           | 245              |
| 60 -----           | 263              |
| 70 -----           | 284              |
| 80 -----           | 327              |
| 90 -----           | 417              |
| 95 -----           | 550              |
|                    | 552 (End point)  |

Percent recovery ----- 96.0  
Percent residue ----- 2.0  
Percent loss ----- 2.0  
Gravity ----- 60.1° A.P.I. @ 60° F  
Color ----- Straw

Copies: 3cc Monsanto Company  
1cc West Texas Engineering Service, Inc.

SOUTHWESTERN LABORATORIES

Lab. No. 19343

*Jack H. Barton*

Our letters and reports are for the exclusive use of the clients to whom they are addressed. The use of our names must receive our prior written approval. Our letters and reports apply only to the samples tested and are not necessarily indicative of the qualities of identical or similar products.

1950

School -

1941

1941 - 1942  
1942 - 1943

1943 - 1944

1944 - 1945

1945 - 1946

1946 - 1947

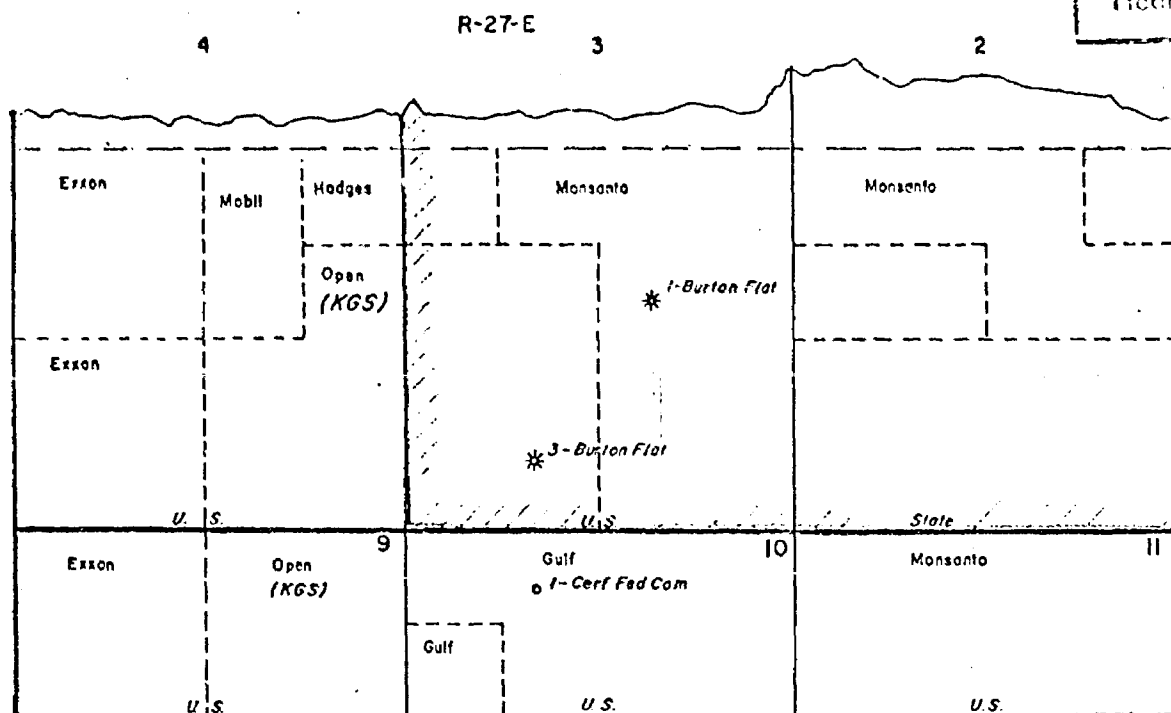
Letter to one for 1/2 of same -

on 1/2 of the well.

- CASE 4950: Application of Monsanto Company for a dual completion, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks authority to dually complete its Burton Flat Deep Unit Well No. 3 located in Unit V of Section 3, Township 21 South, Range 27 East, Eddy County, New Mexico, to produce gas from the Burton Flat-Morrow Gas Pool Extension and from an undesignated Strawn pool through parallel strings of tubing.
- CASE 4951: Application of Atlantic Richfield Company for compulsory pooling, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks an order pooling all mineral interests underlying the N/2 of Section 15, Township 21 South, Range 26 East, Eddy County, New Mexico, to be dedicated to a well to be drilled by the applicant at a standard location to test the Morrow formation. 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 is the designation of applicant as operator and the risk involved in drilling said well.
- CASE 4952: Application of Atlantic Richfield Company for a unit agreement, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks approval of the Empire Abo Unit Area comprising 11,339 acres, more or less of State and Federal lands in Townships 17 and 18 South, Ranges 27, 28, and 29 East, Eddy County, New Mexico.
- CASE 4953: Application of Atlantic Richfield Company for a pressure maintenance project, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks authority to institute a pressure maintenance project in its Empire Abo Unit Area, Empire-Abo Pool, Eddy County, New Mexico, by the injection of gas into the Abo formation through eight wells in Section 36, Township 17 South, Range 27 East, Sections 3, 4, and 9, Township 18 South, Range 27 East, and Sections 26, 31, 32, and 33, Township 17 South, Range 28 East. Applicant further seeks the promulgation of special rules for the operation of said project, including provision for the assignment of special allowables to wells in the project area based on reservoir voidage factors, the shutting-in of less efficient wells, and volumes of gas injected.
- CASE 4954: Application of Chace Oil Company for pool creation and down-hole commingling, Rio Arriba County, New Mexico. Applicant, in the above-styled cause, seeks the creation of a new Gallup Oil Pool and Dakota Oil Pool for its Jicarilla 70 Well No. 3 located in Unit C of Section 33, Township 24 North, Range 4 West, Rio Arriba County, New Mexico. Applicant further seeks authority to commingle production from each of said pools in the well-bore of said well and the establishment of an administrative procedure for down-hole commingling of additional wells to be drilled in the area.
- CASE 4955: Application of Pierce & Dehlinger for a non-standard oil proration unit, or in the alternative, compulsory pooling, Lea County, New Mexico. Applicant, in the above-styled cause, seeks approval for

BEFORE EXAMINER STAFFS  
 OIL CONSERVATION DIVISION  
 CASE NO. 4950  
 Submitted by Applicant  
 Hearing Date 4/25/73

T  
21  
S



Outline of Burton Flat Deep Unit  
 (Monsanto, operator)

## BURTON FLAT AREA

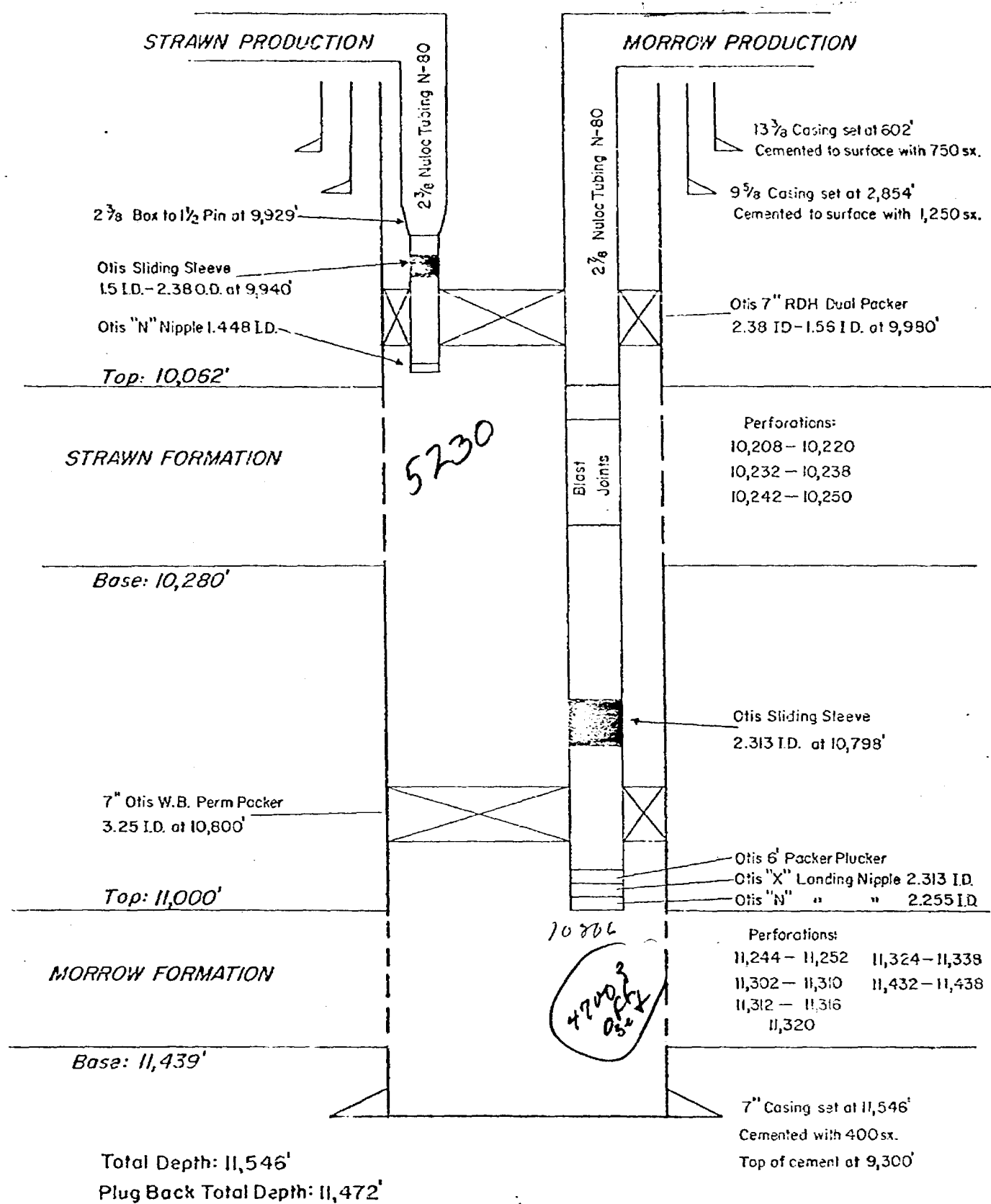
Eddy County, New Mexico  
 MONSANTO COMPANY

Scale: 1"=2500'

# MONSANTO COMPANY

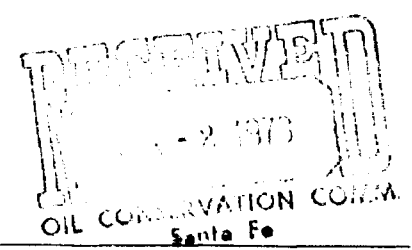
Burton Flat Unit-3  
Eddy Co. New Mexico

BEFORE DOWNING STAMETS  
OIL CO. OF NEW MEXICO  
2-  
4950  
APPLICANT  
4/25/23





# Monsanto



MONSANTO POLYMERS & PETROCHEMICALS CO.  
317 First Savings & Loan Building  
101 North Marienfeld  
Midland, Texas 79701  
Phone: (915) 683-3306

March 30, 1973

*June 4 1973*

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

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

RE: Dual Strawn-Morrow Completion  
Monsanto Company  
Burton Flat Unit No. 3  
700' FSL & 1980' FWL  
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 two strings of tubing in 7" casing.

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.

Please advise if you require any additional information.

Yours very truly,

MONSANTO COMPANY

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

AWW:EMS:mm  
Encls.

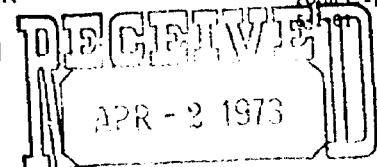
cc to: New Mexico Oil Conservation Commission  
P.O. Drawer DD  
Artesia, New Mexico 88210  
Attn: Bill Gresset

a unit of Monsanto Company

DOCKET MAILED

Date 4-12-73

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



*Case 4950*

|   |                     |                                       |  |
|---|---------------------|---------------------------------------|--|
| Operator<br><b>MONSANTO COMPANY</b>                 |                     | County<br><b>EDDY</b>                 | Oil Conservation Commission<br><b>March 29, 1973</b> |
| Address<br><b>101 N. Marienfeld, Midland, Texas</b> |                     | Lease<br><b>Burton Flat Deep Unit</b> | Well No.<br><b>3</b>                                 |
| Location of Well<br><b>V</b>                        | Section<br><b>3</b> | Township<br><b>21S</b>                | Range<br><b>27E</b>                                  |

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                        | <b>Strawn</b>          |                   | <b>Morrow</b>          |
| b. Top and Bottom of Pay Section (Perforations)      | <b>10,208 - 10,250</b> |                   | <b>11,244 - 11,438</b> |
| c. Type of production (Oil or Gas)                   | <b>Gas</b>             |                   | <b>Gas</b>             |
| d. Method of Production (Flowing or Artificial Lift) | <b>Flowing</b>         |                   | <b>Flowing</b>         |

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 112A.)  |

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

**Gulf Oil Corp., Box 1150 Midland, Texas 79701**

**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**

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 **March 29, 1973**.

CERTIFICATE: I, the undersigned, state that I am the **District Production Mgr.** 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*  
Signature **A. W. Wood**

\*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 4450

|   |                  |                                       |                               |
|---|------------------|---------------------------------------|-------------------------------|
| Operator<br><b>MONSANTO COMPANY</b>                 |                  | County<br><b>EDDY</b>                 | Date<br><b>March 29, 1973</b> |
| Address<br><b>101 N. Marienfeld, Midland, Texas</b> |                  | Lease<br><b>Burton Flat Deep Unit</b> | Well No.<br><b>3</b>          |
| Location of Well                                    | Unit<br><b>V</b> | Section<br><b>3</b>                   | Township<br><b>21S</b>        |
|   |                  |                                       | Range<br><b>27E</b>           |

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                        | <b>Strawn</b>          |                   | <b>Morrow</b>          |
| b. Top and Bottom of Pay Section (Perforations)      | <b>10,208 - 10,250</b> |                   | <b>11,244 - 11,438</b> |
| c. Type of production (Oil or Gas)                   | <b>Gas</b>             |                   | <b>Gas</b>             |
| d. Method of Production (Flowing or Artificial Lift) | <b>Flowing</b>         |                   | <b>Flowing</b>         |

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.

**Gulf Oil Corp., Box 1150 Midland, Texas 79701**

**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**

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 **March 29, 1973**.

CERTIFICATE: I, the undersigned, state that I am the **District Production Mgr.** 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.

  
Signature **A. W. Wood**

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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 7450*

|   |                  |                                       |                        |                               |
|---|------------------|---------------------------------------|------------------------|-------------------------------|
| Operator<br><b>MONSANTO COMPANY</b>                 |                  | County<br><b>EDDY</b>                 |                        | Date<br><b>March 29, 1973</b> |
| Address<br><b>101 N. Marlenfeld, Midland, Texas</b> |                  | Lease<br><b>Burton Flat Deep Unit</b> |                        | Well No.<br><b>3</b>          |
| Location of Well                                    | Unit<br><b>V</b> | Section<br><b>3</b>                   | Township<br><b>21S</b> | Range<br><b>27E</b>           |

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                        | <b>Strawn</b>          |                   | <b>Morrow</b>          |
| b. Top and Bottom of Pay Section (Perforations)      | <b>10,208 - 10,250</b> |                   | <b>11,244 - 11,438</b> |
| c. Type of production (Oil or Gas)                   | <b>Gas</b>             |                   | <b>Gas</b>             |
| d. Method of Production (Flowing or Artificial Lift) | <b>Flowing</b>         |                   | <b>Flowing</b>         |

4. The following are attached. (Please check YES or 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.)   |

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**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**

6. Were all operators listed in Item 5 above notified and furnished a copy of this application? YES ☒ NO \_\_\_\_\_. If answer is yes, give date of such notification **March 29, 1973**.

CERTIFICATE: I, the undersigned, state that I am the **District Production Mgr.** 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*  
Signature **A. W. Wood**

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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

|  |                  |                                       |                        |                               |
|--|------------------|---------------------------------------|------------------------|-------------------------------|
| Operator<br><b>MONSANTO COMPANY</b>                  |                  | County<br><b>EDDY</b>                 |                        | Date<br><b>March 29, 1973</b> |
| Address<br><b>101 W. Maricofield, Midland, Texas</b> |                  | Lease<br><b>Burton Flat Deep Unit</b> |                        | Well No.<br><b>3</b>          |
| Location of Well                                     | Unit<br><b>V</b> | Section<br><b>3</b>                   | Township<br><b>21S</b> | Range<br><b>27E</b>           |

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                        | <b>Strawn</b>          |                   | <b>Hollow</b>          |
| b. Top and Bottom of Pay Section (Perforations)      | <b>10,208 - 10,250</b> |                   | <b>11,244 - 11,438</b> |
| c. Type of production (Oil or Gas)                   | <b>Gas</b>             |                   | <b>Gas</b>             |
| d. Method of Production (Flowing or Artificial Lift) | <b>Flowing</b>         |                   | <b>Flowing</b>         |

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

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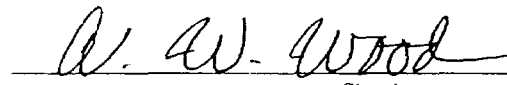
**L. B. Hodges, P.O. Box 1558, Roswell, New Mexico 88201**

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

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

6. Were all operators listed in Item 5 above notified and furnished a copy of this application? YES ☒ NO \_\_\_\_\_. If answer is yes, give date of such notification **March 29, 1973**.

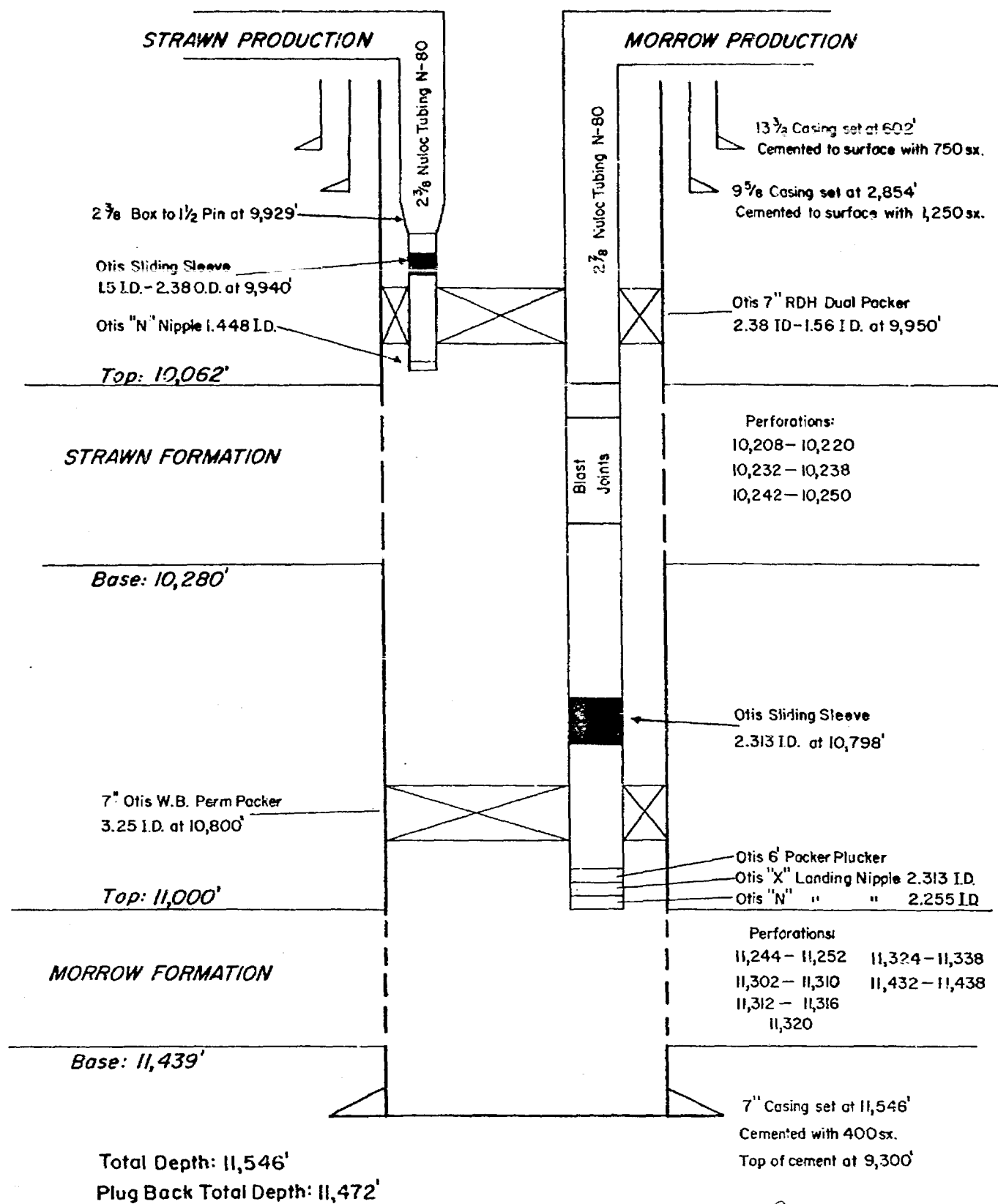
CERTIFICATE: I, the undersigned, state that I am the **District Production Mgr.** of the **MONSANTO COMPANY** (company), and that I am authorized by said company to make this report; and that this report was prepared under my supervision and direction and that the facts stated therein are true, correct and complete to the best of my knowledge.

  
Signature **A. W. Wood**

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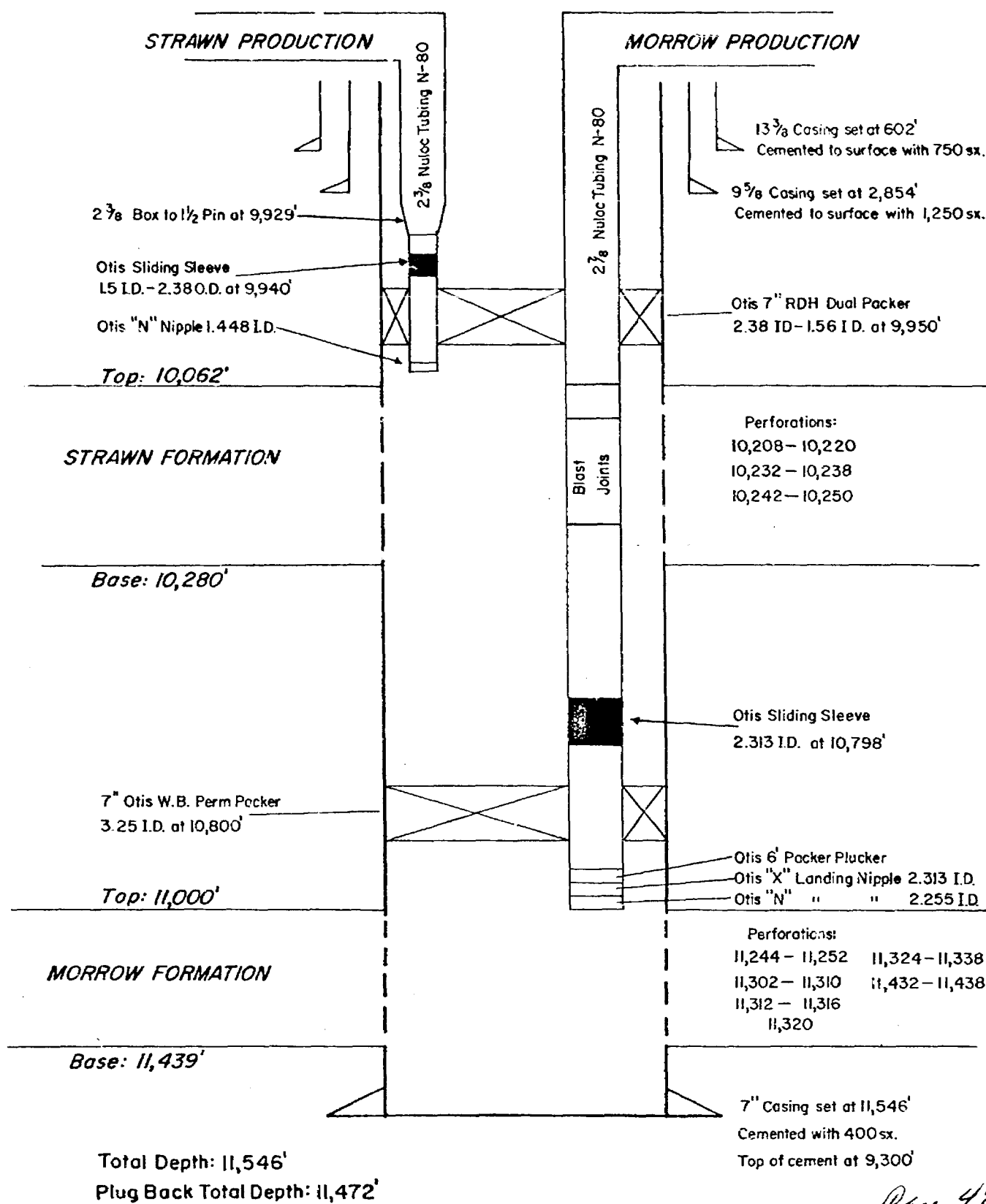
NOTE: If the proposed multiple completion will result in an unorthodox well location and/or a non-standard proration unit in one or more of the producing zones, then separate application for approval of the same should be filed simultaneously with this application.

MONSANTO COMPANY  
Burton Flat Unit-3  
Eddy Co. New Mexico



Case 4950

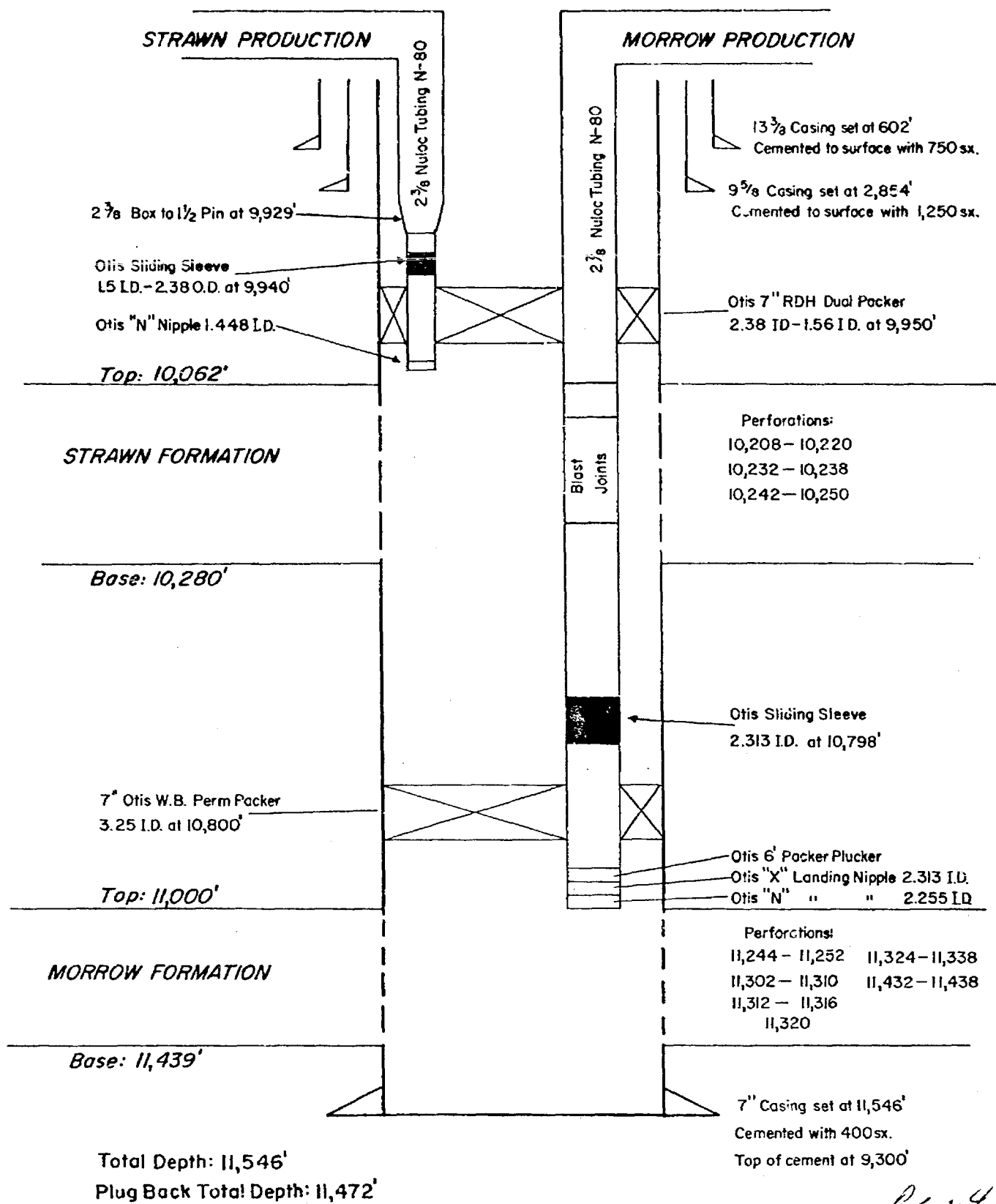
MONSANTO COMPANY  
Burton Flat Unit-3  
Eddy Co. New Mexico



Page 4950

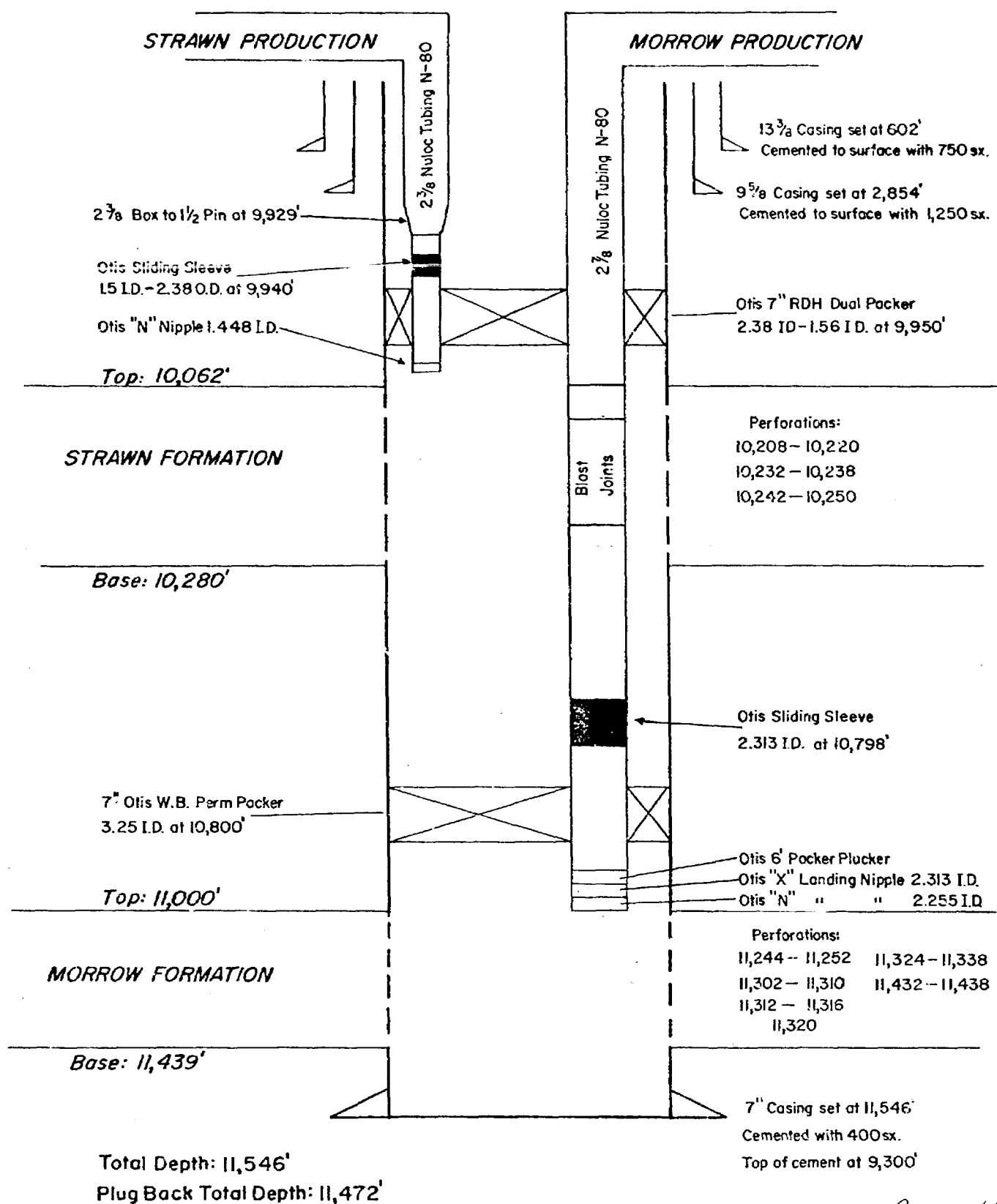
# MONSANTO COMPANY

Burton Flat Unit-3  
Eddy Co. New Mexico



Case 4950

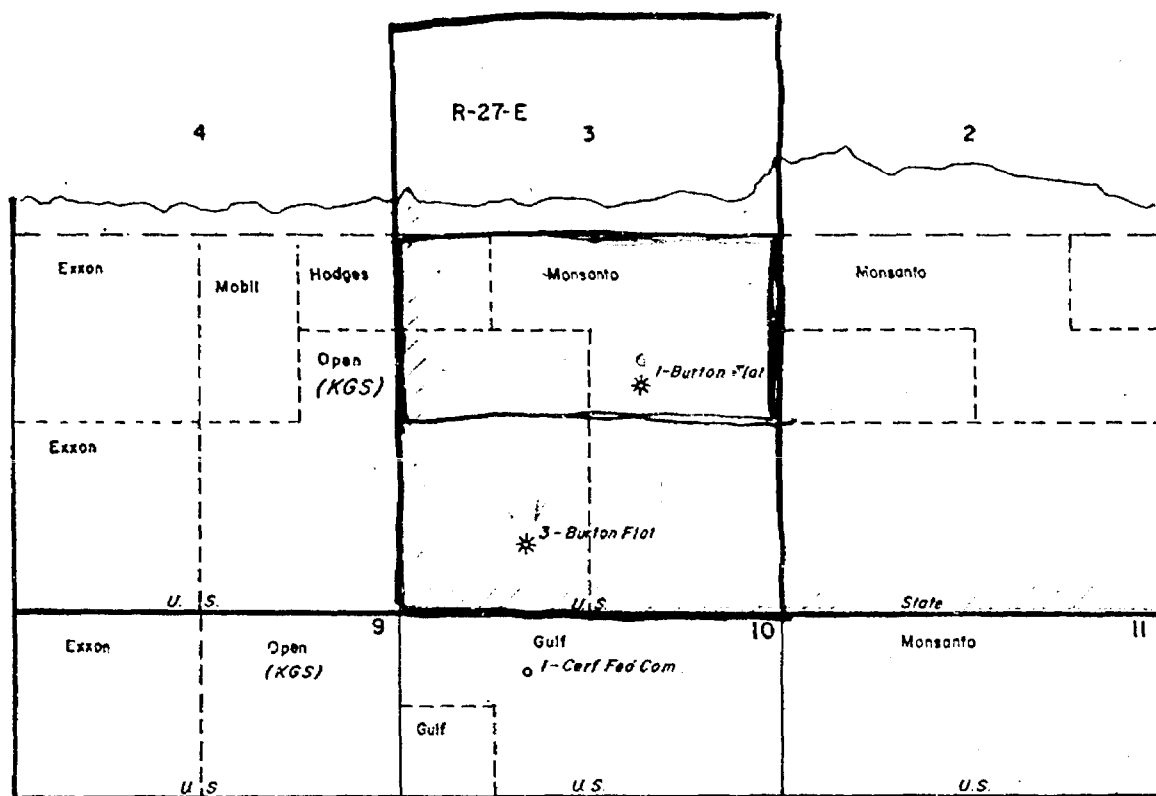




*Page 4950*

Sheet 4950

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Outline of Burton Flat Deep Unit  
(Monsanto, operator)

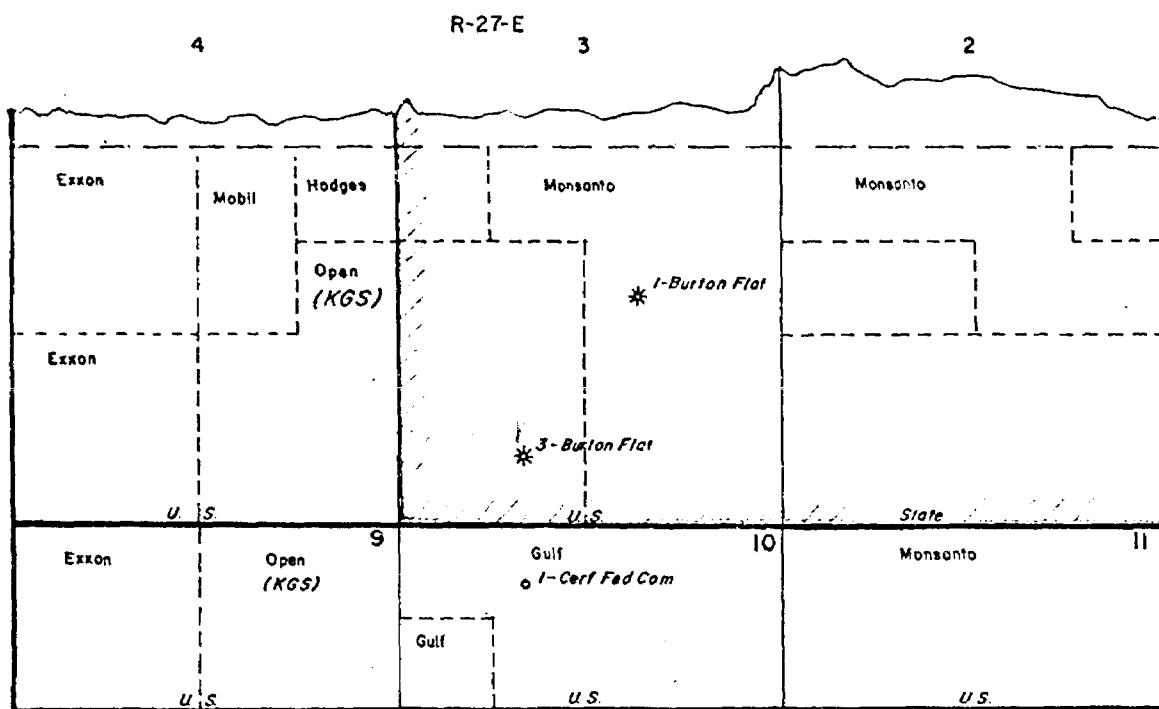
## BURTON FLAT AREA

Eddy County, New Mexico  
MONSANTO COMPANY

Scale: 1"=2500'

Page 4950

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

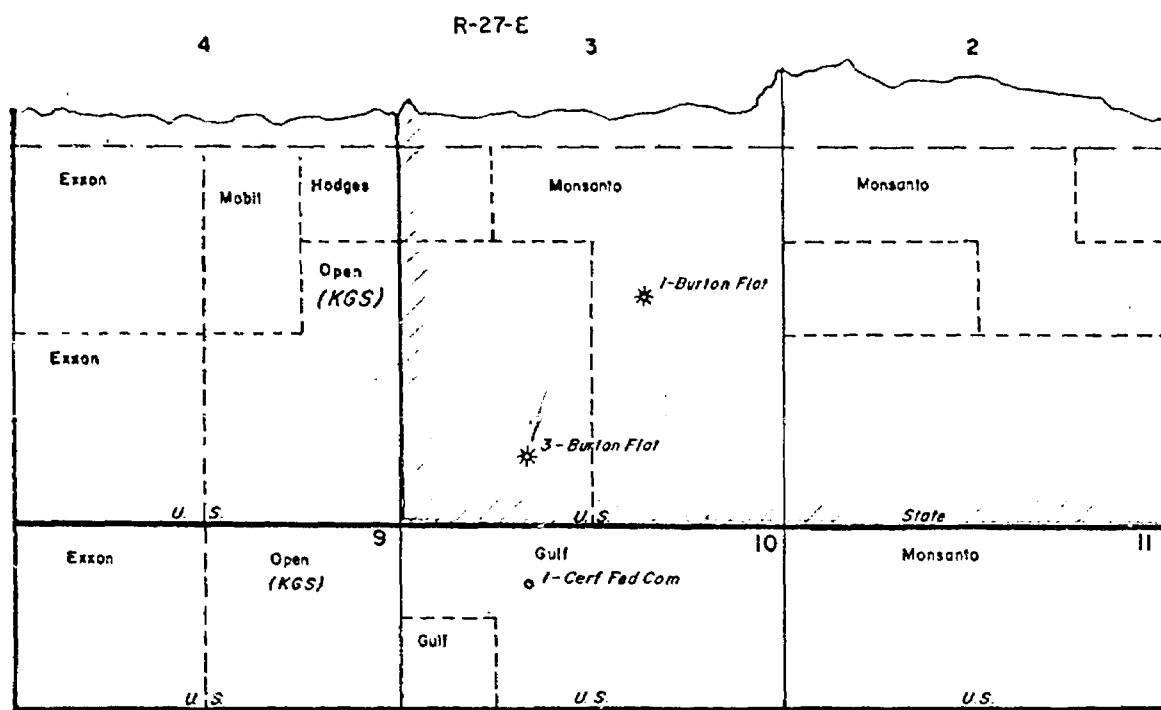
### BURTON FLAT AREA

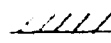
Eddy County, New Mexico  
MONSANTO COMPANY

Scale: 1"=2500'

Page 4950

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21  
S



 Outline of Burton Flat Deep Unit  
(Monsanto, operator)

## BURTON FLAT AREA

Eddy County, New Mexico  
MONSANTO COMPANY

Scale: 1"=2500'

A map of the Gulf of Mexico showing oil lease blocks. The map is divided into sections by dashed lines. Labels include 'Exxon', 'Mobil', 'Hodges', 'Open (KGS)', 'Monsanto', '1-Burton Flat', '3-Burton Flat', 'U.S.', 'State', 'EKKON', 'Open (KGS)', 'Gulf', '1-Cert Fed Com', and 'U.S.'.

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. 4950

Order No. R-4514

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  
April 25, 1963, at Santa Fe, New Mexico, before Examiner  
Richard L. Stamets.

NOW, on this May day of 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 Burton Flat Deep Unit  
Well No. 3, located in Unit V of Section 3, Township

21 South, Range 27 East, NMPM, Eddy County, New  
~~North~~ ~~West~~

Mexico, as a dual completion (conventional) ~~(combination)~~ ~~(tubingless)~~ to produce gas ~~and~~ <sup>oil</sup>

from the Burton Flat-Morrow Gas Pool ~~through~~ (extension) ~~and~~ <sup>and liquid hydrocarbons</sup> ~~and~~ from an undesignated Strawn pool through parallel strings  
of ~~tubing~~ 2 7/8-inch and 2 3/8-inch tubing, respectively.

(3) That additional testing is required to determine  
the exact nature of the Strawn reservoir and  
that the results of such test should  
be filed with the Commission.

(4) That the applicant proposes to set ~~the~~ <sup>production</sup> tubing approximately 438 feet above the morrow perforations in order to permit the later perforation of additional zones <sup>in the morrow formation</sup> without the necessity of killing extant producing zones.

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

(6) 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 Burton Flat Deep Unit Well No. 3, located in Unit V of Section 3, Township 21 ~~South~~ <sup>North</sup> Range 27 East, NMPM, Eddy County, New Mexico, as a dual completion (conventional) ~~(combination)~~ <sup>max</sup> to produce gas ~~and~~ (tubingless)

from the Burton Flat-Morrow Gas Pool ~~through~~ <sup>and gas and liquid hydrocarbons</sup> Extension and from an undesignated Strawn pool through parallel strings of 2 7/8-inch and 2 7/8-inch tubing, respectively, the 2 7/8-inch tubing to be set ~~the Morrow production tubing to be set~~ approximately 438 feet above the casing perforations.

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 ~~zone-segregation~~ tests upon completion and annually thereafter during the Annual Gas Well Shut-In Pressure ~~Gas Oil Ratio~~ Test Period for the Burton Flat-Morrow Pool. Deliverability

(2) (3) 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.

see attachment for no(2)

Therefore ordered. Section

(2) That the applicant shall conduct such tests as are necessary to determine the nature of the Strawn Reservoir within 80 days after connection of the Strawn zone to a gas transportation facility and shall file the results of such tests with both the Artesia and Santa Fe offices of the Commission no later than 90 days following the date of connection

(3)