

CASE 6633: MESA PETROLEUM COMPANY FOR  
A DUAL COMPLETION, EDDY COUNTY, NEW  
MEXICO

CASE NO.

6633

---

APPLICATION,  
TRANSCRIPTS,  
SMALL EXHIBITS,

ETC.



BRUCE KING  
GOVERNOR  
LARRY KEHOE  
SECRETARY

STATE OF NEW MEXICO  
ENERGY AND MINERALS DEPARTMENT  
OIL CONSERVATION DIVISION

September 21, 1979

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

Mr. Dale Gillette, Attorney  
Mesa Petroleum Company  
Post Office Box 2009  
Amarillo, Texas 79105

Re: CASE NO. 6633  
ORDER NO. R-6115

Applicant:

Mesa Petroleum Company

Dear Sir:

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

Yours very truly,

*[Handwritten signature]*

Yours very truly,

JOE D. RAMEY  
Director

JDR/fd

Copy of order also sent to:  
Hobbs and

Hobbs OCD                      x  
Artesia OCD                      x  
Aztec OCD                       
                    

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. 6633  
Order No. R-6115

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

ORDER OF THE DIVISION

BY THE DIVISION:

This cause came on for hearing at 9 a.m. on August 22, 1979,  
at Santa Fe, New Mexico, before Examiner Daniel S. Nuttar.

NOW, on this 19th day of September, 1979, the Division  
Director, having considered the testimony, the record, and the  
recommendations of the Examiner, and being fully advised in the  
premises,

FINDS:

- (1) That due public notice having been given as required  
by law, the Division has jurisdiction of this cause and the  
subject matter thereof.
- (2) That the applicant, Mesa Petroleum Company, seeks  
authority to complete its Yates Federal Com Well No. 1-Y, located  
in Unit J of Section 20, Township 17 South, Range 27 East, NMPM,  
Eddy County, New Mexico, as a dual completion (conventional) to  
produce gas from an undesignated Morrow pool through 2 3/8-inch  
tubing and gas from the Logan Draw-Cisco Canyon Gas Pool through  
the casing-tubing annulus, separation of the zones to be achieved  
by means of a packer set at 8857 feet.
- (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.



-2-

Case No. 6633  
Order No. R-6115

IT IS THEREFORE ORDERED:

(1) That the applicant, Mesa Petroleum Company, is hereby authorized to complete its Yates Federal Com Well No. 1-Y, located in Unit J of Section 20, Township 17 South, Range 27 East, NMPM, Eddy County, New Mexico, as a dual completion (conventional) to produce gas from the Logan Draw-Cisco Canyon Gas Pool and an undesignated Morrow pool through the casing-tubing annulus and through tubing, respectively.

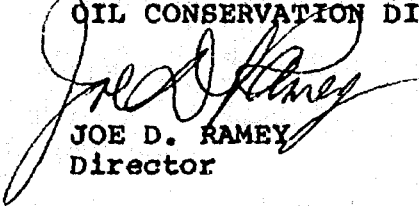
PROVIDED HOWEVER, that the applicant shall complete, operate, and produce said well in accordance with the provisions of Rule 112-A of the Division Rules and Regulations insofar as said rule is not inconsistent with this order;

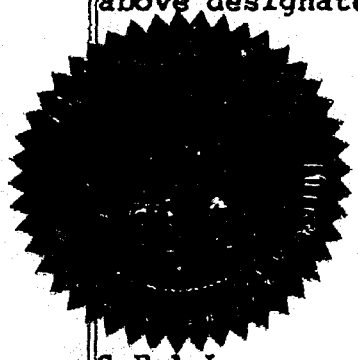
PROVIDED FURTHER, that the applicant shall take Packer Leakage tests upon completion and annually thereafter during the Annual Shut-In Pressure Test Period for the Morrow zone.

(2) 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

  
S E A L

fd/

SALLY WALTON BOYD  
CERTIFIED SHORTHAND REPORTER  
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Santa Fe, New Mexico 87501

Page 1

STATE OF NEW MEXICO  
ENERGY AND MINERALS DEPARTMENT  
Oil Conservation Division  
State Land Office Building  
Santa Fe, New Mexico  
22 August 1979

IN THE MATTER OF:

Application of Mesa Petroleum Com- ) CASE  
pany for a dual completion, Eddy ) 6633  
County, New Mexico. )

BEFORE: Daniel S. Nutter

TRANSCRIPT OF HEARING

A P P E A R A N C E S

For the Oil Conservation  
Division:

Ernest L. Padilla, Esq.  
Legal Counsel for the Division  
State Land Office Bldg.  
Santa Fe, New Mexico 87503

For the Applicant:

D. Dale Gillette, Esq.  
Mesa Petroleum Company  
P. O. Box 2009  
Amarillo, Texas 79189

I N D E X

MIKE HOUSTON

Direct Examination by Mr. Gillette

Cross Examination by Mr. Nutter

3

8

E X H I B I T S

Applicant Exhibit One, Plat

Applicant Exhibit Two, Diagram

Applicant Exhibit Three, Log

5

6

6

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Santa Fe, New Mexico 87501

1  
2 MR. NUTTER: We'll call next Case Number  
3 6633.

4 MR. PADILLA: Application of Mesa Petroleum  
5 Company for a dual completion, Eddy County, New Mexico.

6 MR. GILLETTE: Once again, Mr. Examiner,  
7 for purpose of identification in this case, I'm Dale Gillette  
8 and I've given you a letter of introduction from Mr. Coffield  
9 and would ask your leave to present the case on behalf of  
10 Mesa this morning.

11 MR. NUTTER: Please proceed.

12 MR. GILLETTE: Thank you, sir.

13  
14 MIKE HOUSTON

15 being called as a witness and having been previously sworn  
16 upon his oath, testified as follows, to-wit:

17  
18 DIRECT EXAMINATION

19 BY MR. GILLETTE:

20 Q Would you state your name, residence, and  
21 by whom you are employed?

22 A Mike Houston. I live in Midland, Texas,  
23 and am employed by Mesa Petroleum.

24 Q Now, Mr. Houston, I believe you were pre-  
25 viously sworn this morning in Case Number 6632, is that

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Santa Fe, New Mexico 87501

1 correct?

2 A. That is correct.

3 Q. And you are the same Mike Houston that  
4 presented evidence before this Division this morning in  
5 6632?

6 A. Correct.

7 Q. All right.

8 MR. GILLETTE: Once again, Mr. Examiner,  
9 may we tender Mr. Houston?

10 MR. NUTTER: Mr. Houston is qualified.

11 MR. GILLETTE: Thank you, sir.

12 Q. Mr. Houston, what's the nature of Mesa's  
13 application in Case Number 6633?

14 A. It is an application for dual completion  
15 of a said well, Yates Federal Com No. 1-Y, located in Sec-  
16 tion 20 of Township 17 South, Range 27 East, Eddy County.

17 Q. All right, sir, and with respect to this  
18 application have you previously filed Form C-107 with this  
19 Division?

20 A. Yes, in the Artesia District Office.

21 Q. All right, sir, and what was the result  
22 of that filing -- application filing?

23 A. The result was that there was no applicable  
24 well in this case to administratively approve multiple com-  
25 pletion, so therefore the hearing was requested.

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1 Q All right, sir, and have offset operators  
2 been notified in this proceeding?

3 A Yes, sir, they have.

4 Q All right. Mr. Houston, directing your  
5 attention to what is marked as Exhibit Number One, would  
6 you explain to the Examiner what this shows and what it  
7 purports to represent?

8 A Exhibit Number One is a general plat of  
9 what we call the Logan Draw area, approximately five miles  
10 east of Artesia. The scale is one inch equals 2000 feet  
11 and it covers primarily a portion of Township 17 South,  
12 Range 27 East, Eddy County, New Mexico.

13 The red arrow points to Yates Federal Com  
14 l-Y, which is operated by Mesa Petroleum.

15 Commercial quantities of gas have been  
16 encountered in both the Cisco and Morrow zones and we feel  
17 that dual completion would maximize gas recoveries in the  
18 shortest possible time.

19 Q All right, sir, and the well is indicated  
20 by a red arrow on your exhibit, is that correct?

21 A That is correct.

22 Q All right, sir.

23 A The center of the exhibit.

24 Q All right, sir. Mr. Houston, directing  
25 your attention to what is marked as Exhibit Number Two, would  
26

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1 you explain to the Examiner what this exhibit shows, please?

2 A. Exhibit Number Two is a wellbore schematic  
3 of the Yates Federal Com 1-Y, located in Section 20 of 17,  
4 27. 4-1/2 inch casing is set at total depth of 9230 feet  
5 with top of cement at 5800 feet.

6 Q. The Morrow perforations at 8921 to 9069  
7 are separated from the Cisco perforations at 7662 to 7784  
8 by a production packer set at 8857.

9 If approval is granted to multiple complete  
10 hydrocarbons from the Morrow zone would flow -- would be  
11 produced up the 2-3/8ths tubing and hydrocarbons from the  
12 Cisco zone would be produced up the 4-1/2 inch casing 2-3/8ths  
13 tubing annulus.

14 Q. All right, sir, and what would Mesa do  
15 in order to prevent the commingling of production from the  
16 two zones?

17 A. We feel that commingling of production  
18 would not occur because of the production packer set at 8857  
19 and we would run packer leakage test prior to commencing  
20 production.

21 Q. All right, sir. Directing your attention  
22 to Exhibit Number Three, would you describe what this parti-  
23 cular exhibit is and what it purports to show?

24 A. Yes. Exhibit Three is a Xeroxed portion  
25 of the radioactive log of the Yates Federal Com 1-Y, and it

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1 simply indicates with the perforations so noted, perforations  
2 of the two productive zones, the Cisco and the Morrow.

3 Q All right, now I'll ask you once again,  
4 Mr. Houston, this is a Xeroxed copy of a production log that  
5 is -- or well log that apparently was done by Schlumberger.  
6 Are you familiar with the original log prepared by Schlum-  
7 berger?

8 A Yes, I am.

9 Q Have you reviewed it and is the information  
10 contained on it, is it true to the best of your information  
11 and knowledge and belief?

12 A Yes, it is.

13 Q All right, and this is a Xeroxed copy of  
14 that?

15 A That's correct.

16 Q Did you make this Xeroxed copy of that  
17 original log?

18 A Yes.

19 MR. GILLETTE: Mr. Examiner, we'd ask that  
20 Mesa's Exhibits One, Two, and Three in Cause Number 6633 be  
21 admitted into evidence, before the Division.

22 MR. NUTTER: Applicant's Exhibits One  
23 through Three will be admitted.

24 Q Just a few brief questions here, Mr.  
25 Houston. In your opinion if the application for multiple



1 completion in 6633 was granted, will the hydrocarbons from  
2 each zone be safely and effectively produced?

3 A. Yes, I feel they would.

4 Q. All right, sir. In your further opinion  
5 would -- would the granting of such an application prevent  
6 waste and protect correlative rights and avoid the drilling  
7 of any unnecessary wells?

8 A. Yes, they will.

9 MR. GILLETTE: I'll pass the witness, Mr.  
10 Examiner.

11  
12 CROSS EXAMINATION

13 BY MR. NUTTER:

14 Q. Mr. Houston, what is the potential of each  
15 of these zones?

16 A. Again I forgot to point that out as we  
17 went through, but the Cisco perforations -- on Exhibit Two,  
18 Cisco perforations potentialled 997 Mcf per day, and the  
19 Morrow potentialled for 12-million 986.

20 Q. So you've got a pretty good well there in  
21 the Morrow but the other one is a rather marginal producer.

22 A. We've completed two -- that's correct.  
23 We've completed two other wells in this immediate area, one  
24 of which is in Section 29 in the northeast quarter, Porter  
25 Fed Com No. 1. It potentialled for a pretty small volume,

1 too, and seems to have gotten better.

2 Q What formation?

3 A Excuse me, Cisco, sorry, Cisco formation,  
4 and it seems to have improved once it's been on-stream.

5 And the other location that we've completed  
6 and have not produced is in Section 28 in the northwest  
7 quarter, the Berry Fed Com. It also was completed from the  
8 Cisco for a calculated absolute open flow of 1195 Mcf per  
9 day.

10 Q Are there any other Morrow producers in  
11 this area?

12 A Not to my knowledge, no, sir.

13 Most of the wells indicated on Exhibit One  
14 you may notice are fairly shallow wells that have been  
15 plugged.

16 Q Did these two Cisco wells that you've got  
17 in Section 28 and 29 go to the Morrow?

18 A Yes, they did.

19 Q And it was dry?

20 A Yes, sir.

21 Q Okay, what about your pressures in these  
22 two zones, Mr. Houston?

23 A The shut-in pressure, surface shut-in  
24 pressure on the Yates Federal Com 1-Y, the Morrow zone, I  
25 think I have that here, 2880, whereas on the Cisco zone the

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Santa Fe, New Mexico 87501

1 surface shut-in pressure was 850.

2 Q How about gas-liquid ratios or gas-oil  
3 ratios?

4 A On the Morrow zone potential test the --  
5 in the Yates Federal Com 1-Y, the gas-liquid ratio is 39,910  
6 cubic feet per barrel.

7 And the Cisco zone was dry during --  
8 during test, but we have reason to believe it would be on  
9 the same order as these other two wells that I've mentioned  
10 in Section 28 and 29.

11 Q And how about -- what is their GOR?

12 A We have a GOR of around 70,000 in both  
13 wells.

14 The one in Section 29 actually has some  
15 production history, almost a year of production history, and  
16 dividing that out it's 64,336.

17 Q That's the one in --

18 A Section 29, the Potter Fed Com No. 1.  
19 That's about a --

20 Q It has a one year production gas-oil ratio  
21 of 64,000?

22 A 336.

23 Q Kind of a low GOR to be producing through  
24 the annulus, Mr. Houston.

25 A It -- it really is when you consider the

1 low productivity, but it feel like that with some clean-up  
2 time, again, I mentioned that it would be sufficient to pro-  
3 duce up the annulus.

4 If it -- if it does not, then we will  
5 shut the thing in and you will notice on Exhibit Two we  
6 have a sliding sleeve that once the Morrow were depleted, we  
7 would just set a plug in the Baker Lock-set packer and then -

8 Q And produce the Cisco later on through  
9 the tubing?

10 A Yes, sir.

11 MR. NUTTER: Are there any further ques-  
12 tions of Mr. Houston? He may be excused.

13 Do you have anything further in this case,  
14 Mr. Gillette?

15 MR. GILLETTE: No, sir, we have nothing  
16 further.

17 MR. NUTTER: Does anyone have anything to  
18 offer in Case Number 6633?

19 We'll take the case under advisement and  
20 a 15-minute recess.

21 MR. GILLETTE: Thank you, Mr. Examiner.

22

23

(Hearing concluded.)

24

25

## REPORTER'S CERTIFICATE

I, SALLY W. 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 the said transcript is a full, true, and correct  
record of the hearing, prepared by me to the best of my  
ability, from my notes taken at the time of the hearing.

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

SALLY WALTON BOYD  
CERTIFIED SHORTHAND REPORTER  
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Santa Fe, New Mexico 87501

I do hereby certify that the foregoing is  
a complete record of the proceedings in  
the Examiner hearing of Case No. 6633  
heard by me on 8/22 1979.

[Signature], Examiner  
Oil Conservation Division

STATE OF NEW MEXICO  
ENERGY AND MINERALS DEPARTMENT  
Oil Conservation Division  
State Land Office Building  
Santa Fe, New Mexico  
22 August 1979

IN THE MATTER OF:

Application of Mesa Petroleum Com- ) CASE  
pany for a dual completion, Eddy ) 6633  
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BEFORE: Daniel S. Nutter

TRANSCRIPT OF HEARING

A P P E A R A N C E S

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Division:

Ernest L. Padilla, Esq.  
Legal Counsel for the Division  
State Land Office Bldg.  
Santa Fe, New Mexico 87503

For the Applicant:

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Mesa Petroleum Company  
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I N D E X

MIKE HOUSTON

Direct Examination by Mr. Gillette

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Cross Examination by Mr. Nutter

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E X H I B I T S

Applicant Exhibit One, Plat

5

Applicant Exhibit Two, Diagram

6

Applicant Exhibit Three, Log

6

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Page 3

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1 correct?

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5 6632?

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23 A. The result was that there was no applicable  
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CERTIFIED SHORTHAND REPORTER  
3010 Plaza Blanca (SOS) 471-3482  
Santa Fe, New Mexico 87501

1 Q All right, sir, and have offset operators  
2 been notified in this proceeding?

3 A Yes, sir, they have.

4 Q All right. Mr. Houston, directing your  
5 attention to what is marked as Exhibit Number One, would  
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7 purports to represent?

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9 what we call the Logan Draw area, approximately five miles  
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17 that dual completion would maximize gas recoveries in the  
18 shortest possible time.

19 Q All right, sir, and the well is indicated  
20 by a red arrow on your exhibit, is that correct?

21 A That is correct.

22 Q All right, sir.

23 A The center of the exhibit.

24 Q All right, sir. Mr. Houston, directing  
25 your attention to what is marked as Exhibit Number Two, would

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1 you explain to the Examiner what this exhibit shows, please?

2 A Exhibit Number Two is a wellbore schematic  
3 of the Yates Federal Com 1-Y, located in Section 20 of 17,  
4 27. 4-1/2 inch casing is set at total depth of 9230 feet  
5 with top of cement at 5800 feet.

6 Q The Morrow perforations at 8921 to 9069  
7 are separated from the Cisco perforations at 7662 to 7784  
8 by a production packer set at 8857.

9 If approval is granted to multiple complete,  
10 hydrocarbons from the Morrow zone would flow -- would be  
11 produced up the 2-3/8ths tubing and hydrocarbons from the  
12 Cisco zone would be produced up the 4-1/2 inch casing 2-3/8ths  
13 tubing annulus.

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15 in order to prevent the commingling of production from the  
16 two zones?

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18 would not occur because of the production packer set at 8857  
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20 production.

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6 Are you familiar with the original log prepared by Schlum-  
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10 contained on it, is it true to the best of your information  
11 and knowledge and belief?

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14 that?

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16 Q Did you make this Xeroxed copy of that  
17 original log?

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20 MR. GILLETTE: Mr. Examiner, we'd ask that  
21 Mesa's Exhibits One, Two, and Three in Cause Number 6633 be  
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24 through Three will be admitted.

25 Q Just a few brief questions here, Mr.  
Houston. In your opinion if the application for multiple

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1 completion in 6633 was granted, will the hydrocarbons from  
2 each zone be safely and effectively produced?

3 A Yes, I feel they would.

4 Q All right, sir. In your further opinion  
5 would -- would the granting of such an application prevent  
6 waste and protect correlative rights and avoid the drilling  
7 of any unnecessary wells?

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10 Examiner.

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12 CROSS EXAMINATION

13 BY MR. NUTTER:

14 Q Mr. Houston, what is the potential of each  
15 of these zones?

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17 went through, but the Cisco perforations -- on Exhibit Two,  
18 Cisco perforations potentialed 997 Mcf per day, and the  
19 Morrow potentialed for 12-million 986.

20 Q So you've got a pretty good well there in  
21 the Morrow but the other one is a rather marginal producer.

22 A We've completed two -- that's correct.  
23 We've completed two other wells in this immediate area, one  
24 of which is in Section 29 in the northeast quarter, Porter  
25 Fed Com No. 1. It potentialed for a pretty small volume,

1 too, and seems to have gotten better.

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4 and it seems to have improved once it's been on-stream.

5 And the other location that we've completed  
6 and have not produced is in Section 28 in the northwest  
7 quarter, the Berry Fed Com. It also was completed from the  
8 Cisco for a calculated absolute open flow of 1195 Mcf per  
9 day.

10 Q Are there any other Morrow producers in  
11 this area?

12 A Not to my knowledge, no, sir.

13 Most of the wells indicated on Exhibit One  
14 you may notice are fairly shallow wells that have been  
15 plugged.

16 Q Did these two Cisco wells that you've got  
17 in Section 28 and 29 go to the Morrow?

18 A Yes, they did.

19 Q And it was dry?

20 A Yes, sir.

21 Q Okay, what about your pressures in these  
22 two zones, Mr. Houston?

23 A The shut-in pressure, surface shut-in  
24 pressure on the Yates Federal Com 1-Y, the Morrow zone, I  
25 think I have that here, 2880, whereas on the Cisco zone the

SALLY WALTON BOYD  
CERTIFIED SHORTHAND REPORTER  
3020 Plaza Blanca (505) 471-2462  
Santa Fe, New Mexico 87501

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CERTIFIED SHORTHAND REPORTER  
3020 Plaza Blanca (SOS) 471-2462  
Santa Fe, New Mexico 87501

1 surface shut-in pressure was 850.

2 Q How about gas-liquid ratios or gas-oil  
3 ratios?

4 A On the Morrow zone potential test the --  
5 in the Yates Federal Com 1-Y, the gas-liquid ratio is 39,910  
6 cubic feet per barrel.

7 And the Cisco zone was dry during --  
8 during test, but we have reason to believe it would be on  
9 the same order as these other two wells that I've mentioned  
10 in Section 28 and 29.

11 Q And how about -- what is their GOR?

12 A We have a GOR of around 70,000 in both  
13 wells.

14 The one in Section 29 actually has some  
15 production history, almost a year of production history, and  
16 dividing that out it's 64,336.

17 Q That's the one in --

18 A Section 29, the Potter Fed Com No. 1.

19 That's about a --

20 Q It has a one year production gas-oil ratio  
21 of 64,000?

22 A 336.

23 Q Kind of a low GOR to be producing through  
24 the annulus, Mr. Houston.

25 A It -- it really is when you consider the

SALLY WALTON BOYD  
CERTIFIED SHORTHAND REPORTER  
3020 Plaza Blanca (606) 471-2482  
Santa Fe, New Mexico 87501

1 low productivity, but it feel like that with some clean-up  
2 time, again, I mentioned that it would be sufficient to pro-  
3 duce up the annulus.

4 If it -- if it does not, then we will  
5 shut the thing in and you will notice on Exhibit Two we  
6 have a sliding sleeve that once the Morrow were depleted, we  
7 would just set a plug in the Baker Lock-set packer and then --

8 Q And produce the Cisco later on through  
9 the tubing?

10 A Yes, sir.

11 MR. NUTTER: Are there any further ques-  
12 tions of Mr. Houston? He may be excused.

13 Do you have anything further in this case,  
14 Mr. Gillette?

15 MR. GILLETTE: No, sir, we have nothing  
16 further.

17 MR. NUTTER: Does anyone have anything to  
18 offer in Case Number 6633?

19 We'll take the case under advisement and  
20 a 15-minute recess.

21 MR. GILLETTE: Thank you, Mr. Examiner.

22  
23 (Hearing concluded.)  
24  
25



REPORTER'S CERTIFICATE

I, SALLY W. 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 the said transcript is a full, true, and correct  
 record of the hearing, prepared by me to the best of my  
 ability, from my notes taken at the time of the hearing.

Sally W. Boyd, C.S.R.

I do hereby certify that the foregoing is  
 a complete record of the proceedings in  
 the Examiner hearing of Case No. 6633,  
 heard by me on 8/22 1977.

[Signature] Examiner  
 Oil Conservation Division

SALLY WALTON BOYD  
 CERTIFIED SHORTHAND REPORTER  
 3020 Plaza Blanca (SOS) 471-2462  
 Santa Fe, New Mexico 87501

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**MESA**  
PETROLEUM CO.  
PERMIAN BASIN DIVISION

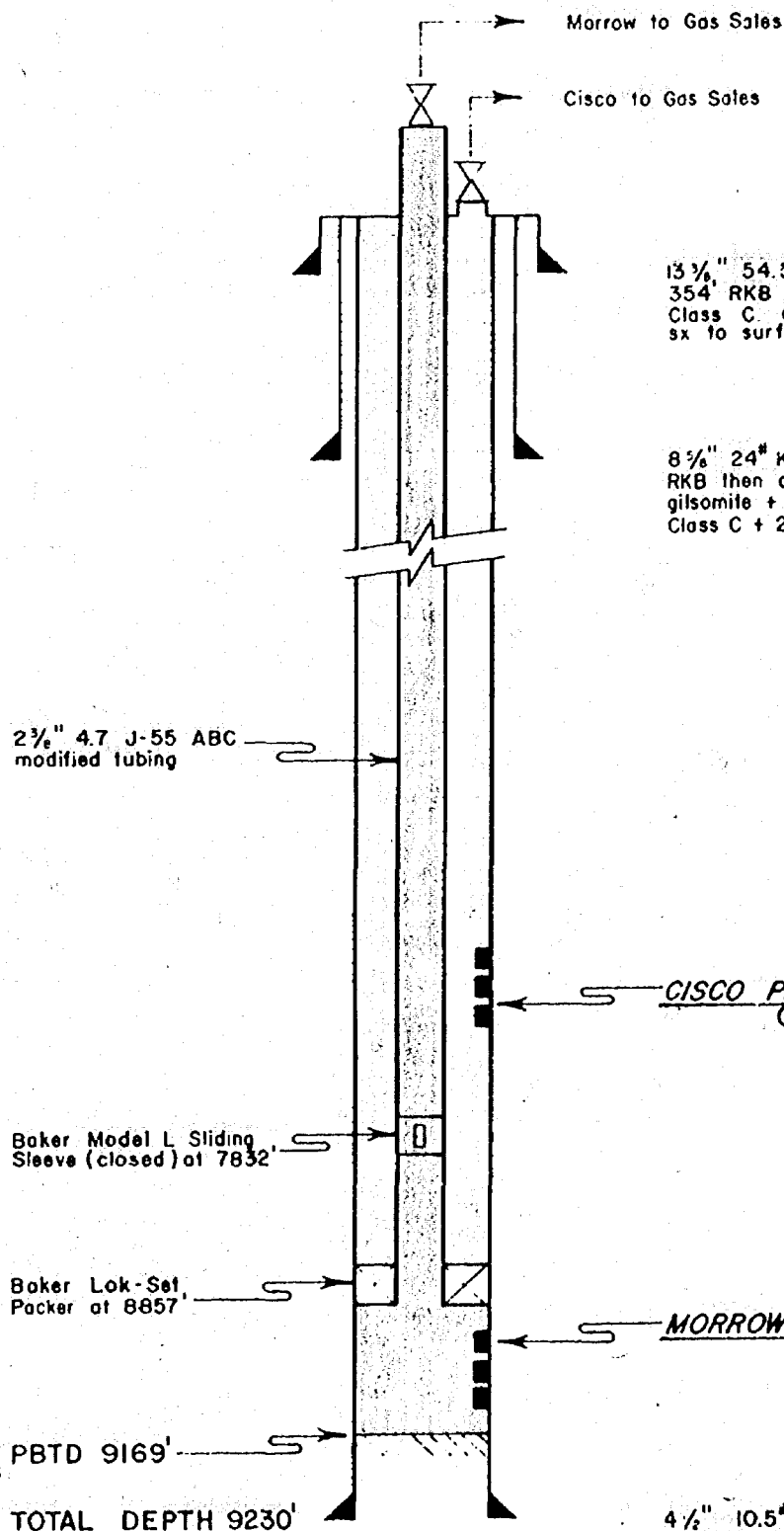


EXHIBIT NO. 2

**YATES FEDERAL COM I-Y**  
SEC 20, T 17S, R 27E  
Eddy Co., New Mexico

BY  
DATE

DRAWN BY  
SCALE



13 3/4" 54.5# K-55 ST&C casing set @ 354' RKB then cemented with 375 sx Class C. Circulated approx 75 sx to surface.

8 3/4" 24# K-55 ST&C casing set @ 1700' RKB then cemented with 400 sx HLW + 5 gilsomite + 1/4" floccle followed by 200 sx Class C + 2% cc Circulated 15sx to surface.

*pot 997  
pres surf 850  
GOR was dry during test but should be about 20,000*

CISCO PERFS 7662'-7784'  
CAOF 997 MCFGPD

BEFORE EXAMINER NUTTER  
OIL CONSERVATION DIVISION

Appl EXHIBIT NO. 2  
CASE NO. 6633

MORROW PERFS 8921'-9069'  
CAOF 12,986 MCFGPD

*pot 12,986,000  
pres 2880  
GOR: 39910 cu ft  
on pot  
RKB*

4 1/2" 10.5# & 11.6# K-55 and N-80 LT and BT & C casing set @ 9230' RKB. Centralizer (total of 21) installed from 9230' to 7500'. Cemented with 1200sx Class H + 3% Halad 22 + 0.2% CFR-2 + 5# of KCL. Top of cement at 5800' (by bond log)

# SIMULTANEOUS COMPENSATED NEUTRON- FORMATION DENSITY

COMPANY Mesa Petroleum Co.  
2" x 5" DETAIL 5"  
 WELL # 1-Y Yates Field Com.  
 FIELD South Riverside VMS  
 COUNTY Eddy STATE New Mexico

LOCATION	1980 FSL 4-1445 T L L		
API SERIAL NO.	SEC.	TWP.	RANGE
	20	17-S	27-E

Other Services:  
DLL-R

Permanent Datum: GL; Elev.: 3384  
Log Measured From KB, 17 Ft. Above Perm. Datum  
Drilling Measured From KB

Elev.: K.B. 3401  
D.F. \_\_\_\_\_  
G.L. 3384

Date	March 9, 1979	
Run No.	ONE	
Depth--Driller	9230	
Depth--Logger	9230	
Btm. Log Interval	9229	
Top Log Interval		
Casing--Driller	85 1/2 @ 1700	
Casing--Logger	1697	
Bit Size	7 1/8	
Type Fluid in Hole	Sea Mud / Drispar / KC	
Dens.	9.6	
Visc.	41	
pH	NC	
Fluid Loss	7 ml	
Source of Sample	P.L.	
Rm @ Meas. Temp.	.20 @ 70 F	
Rmc @ Meas. Temp.	.17 @ 70 F	
Rmf @ Meas. Temp.	.30 @ 70 F	
Source: Rmf   Rmc	M   C	
Rm @ BHT	.10 @ 138 F	
Circulation Stopped	1100	
Logger on Bottom	1600	
Max. Rec. Temp.	138 °F	

The well name, location and borehole reference data were furnished by the customer.

[illegible]

REMARKS:

Hotel settings changed  
Room 15-011 to 15-011  
Casino paid

**MESA**  
**PETROLEUM CO.**  
PERMIAN BASIN DIVISION

EXHIBIT NO. 3

YATES FED. COM. I-Y  
Sec. 20, T 17 S, R 27 E  
Eddy County, New Mexico

DATE	DRAWN BY
SCALE	

BEFORE EXAMINER NUTRI  
OIL CONSERVATION DIVISION  
EXHIBIT NO. 3  
CASE NO. 6633

O.	one
Order No.	77374
rel	full
PPM CL.	35.000
F.P.M.	30
MENT DATA	
nel	118
rt.	1063
id.	Yellow
nde	
urce	
librator	696
nel	118
rt.	1278
urce	1394
librator	1590
er Panel	2116
order (TR)	CSU
coder (DRE)	946
Wheel (CPW)	-
Type	-
ing.	Sawyer,
No.	1
S. O. - Inches	-
None	

# ATION DATA

BKG. CPS	
----------	--

Source CPS	
Sens. - Cal	

T. C. - Cal

Spacing - Before Log

Spacing - After Log

Afternoon

# SIMULTANEOUS COMPENSATED NEUTRON- FORMATION DENSITY

[illegible]

**MESA**  
PETROLEUM CO.  
PERMIAN BASIN DIVISION

EXHIBIT NO. 3

YATES FED. COM. 1-Y  
Sec. 20, T 17 S, R 27 E  
Eddy County, New Mexico

BY \_\_\_\_\_  
DATE \_\_\_\_\_

DRAWN BY \_\_\_\_\_  
SCALE \_\_\_\_\_

HERE	The well name, location and borehole reference data were furnished by _____			
O.	one			
Order No.	77374			
vel	full			
PPM CL.	35,000			
F.P.M.	30			

BEFORE EXAMINER NUTT  
OIL CONSERVATION DIVISION  
*Apple* EXHIBIT NO. 3  
CASE NO. 6633

1. *Abstract* – This paper examines the impact of the 1997 Asian financial crisis on the performance of the Korean stock market. The results show that the Korean stock market experienced a significant decline in performance during the crisis, which was attributed to a combination of factors, including a sharp increase in volatility, a decline in market liquidity, and a loss of investor confidence. The paper also discusses the implications of these findings for the development of financial markets in emerging economies.

LOGGING DATA												
DEPTH		CNP			FDC				GR			
	Bottom	Porosity Scale	Matrix	Auto Corr. or Hole Size Setting	Porosity Scale	Grain Density	Liquid Density	Hole Fluid	Sens. logged	B.C.	Zero. Div. Lvl.	Scale Per 100 Div.
	TD	30-10	LS-GH	Auto	30-10	2.71	1.1	Liq	100	1	0	100
	CSS	"	LS-GH	83/4	=	-	-	-	"	-	-	"

7600

DST 7629-7738 CISCO  
IF OPEN WRAK. BROAD HAD 3/8" CH 187 MCF  
DECR 70 H2S 130 MCF

I 23 18 ?

1

CISCO PAY

62  
64  
66

FF 3/8" CH 60" 250 MCF  
DECR 70 30" 152 MCF

72  
74  
76

85  
87  
89  
91  
93

IHS 3749

GD/F 184-250

RD/SIP 2480

45" FF 250-250

RD/SIP 2374

FHS 3722

BHT 180"

REG 495' GCTA

23  
25  
30

38  
42  
46

50  
55

62  
64

66  
70

78  
81

84

CISCO  
PERFS

CANYON (-4391)

7600



368

8900

T/MORROW 8897

(-54%)

4500

21, 22, 23

8.5 17

F1

5000

27, 28, 29, 30

10 18

F1

(2)

DST # 2 8905 - 9110 (T/MORROW)

OPEN STRONG GTS 4" W/ROOT

UNLOADED RHT HOLE 1400YWR  
IN 26" FLOW 3.51AM  
@ 2500' ON 1/4" CH

OPEN 30" FF  
HAD 775H ON 1/4" CH IN 5"

25" 17-25" 5.011H  
DECY FO 1560H @ END OF  
FLOW PERIOD

9000

1000

1000

1000

1000

1000

1000

1000

1000

1000

1000

1000

1000

1000

1000

1000

1000

1000

1000

1000

1000

1000

1000

1000

1000

1000

1000

1000

1000

1000

1000

1000

1000

1000

1000

1000

1000

TOP 4458 4435

30" 2193-3573 2366-3608

30" 3396 3639

30" 2193-247 2366-2714

180" 3431 3465

30" 4411 4460

BHT 1500

SAMP 14.9 CFC

@ 1715H

10 28

F1

9.5 27

L

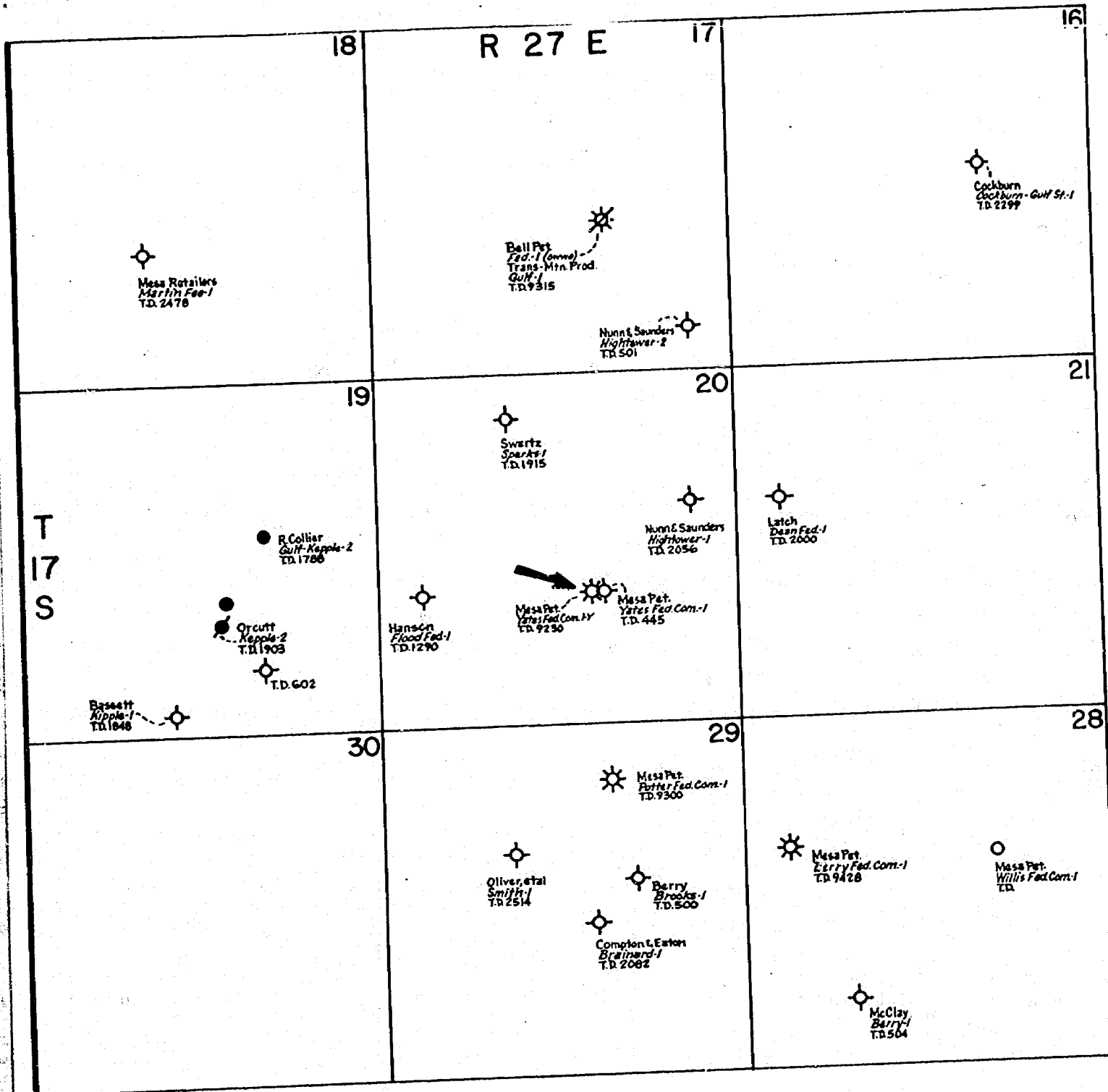
7.5 35

L

9100

3 33

L



BEFORE EXAMINER NUTTER  
OIL CONSERVATION DIVISION  
EXHIBIT NO. \_\_\_\_\_  
CASE NO. 6633

**MESA**  
PETROLEUM CO.  
PERMIAN BASIN DIVISION

EXHIBIT NO. 1  
LOCATION PLAT  
YATES FED. COM. 1-Y  
Sec. 20, T 17 S, R 27 E  
Eddy County, New Mexico





**MESA**  
PETROLEUM CO.  
PERMIAN BASIN DIVISION

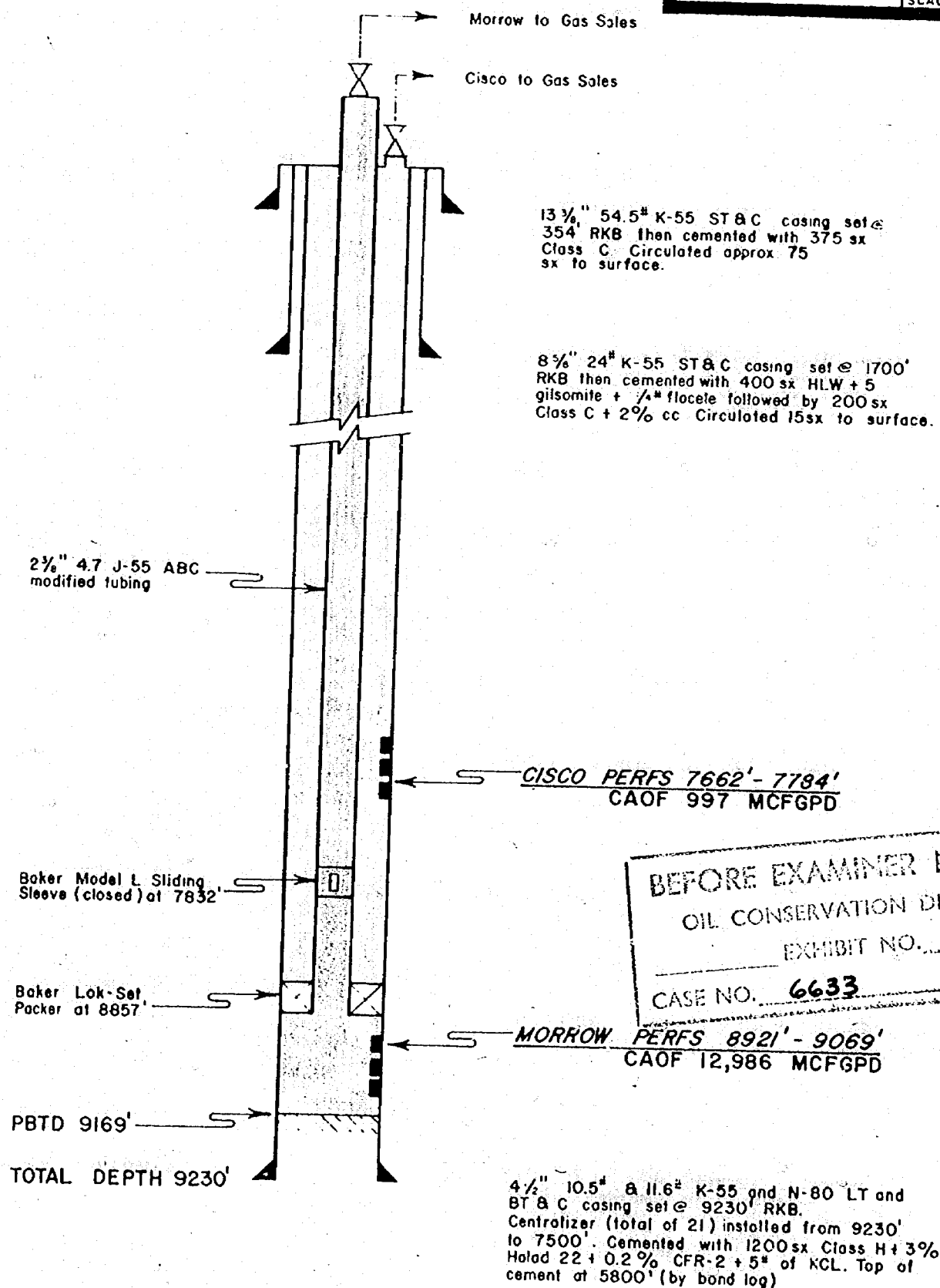


EXHIBIT NO. 2

**YATES FEDERAL COM I-Y**  
SEC 20, T 17S, R 27E  
Eddy Co., New Mexico

BY \_\_\_\_\_  
DATE \_\_\_\_\_

DRAWN BY \_\_\_\_\_  
SCALE: \_\_\_\_\_



BEFORE EXAMINER NUTTER  
OIL CONSERVATION DIVISION  
EXHIBIT NO. \_\_\_\_\_  
CASE NO. **6633**

WELL FILE

Schlumberger

SIMULTANEOUS  
COMPENSATED NEUTRON  
FORMATION DENSITYCOMPANY Mesa Petroleum Co.  
2" x 5" DETAIL 5"WELL # 1-Y Yates Field ComFIELD South Riverside VHSCOUNTY Eddy STATE New MexicoLOCATION 1980 FSL 4-1445 1 L

Other Services:

DLL-RxoAPI SERIAL NO. 20 SEC. 17-S TWP. 27-E RANGEPermanent Datum: GL, Elev.: 3384  
Log Measured From KB, 17 Ft. Above Perm. Datum  
Drilling Measured From KBElev.: K.B. 3401  
D.F. 3384  
G.I. 3384

Log No.	<u>ONE</u>
Depth-Driller	<u>9230</u>
Depth-Logger	<u>9230</u>
Log Interval	<u>9229</u>
Log Interval	<u>9229</u>
Drilling-Driller	<u>858 @ 1700</u>
Drilling-Logger	<u>1697</u>
Size	<u>7 1/2</u>
Seal Fluid in Hole	<u>Sea Mud / Drispar / KC</u>
Visc.	<u>9.6</u>
Fluid Loss	<u>NC</u>
Time of Sample	<u>PL</u>
Meas. Temp.	<u>20 @ 70°F</u>
Meas. Temp.	<u>17 @ 70°F</u>
Meas. Temp.	<u>30 @ 70°F</u>
Rmt	<u>M</u>
Rmc	<u>C</u>
BHT	<u>10 @ 138°F</u>
Calculation Stopped	<u>1100</u>
Logger on Bottom	<u>1600</u>

Thanks!

The well name, location and borehole reference data were furnished by the customer.

Type Log

Depth

REMARKS:

Depth settings changed  
from 15-0H to 15-CH  
at casing point.

MESA  
PETROLEUM CO.  
PERMANENT BASIN DIVISION

EXHIBIT NO. 3

YATES FED. COM. 1-Y  
Sec. 20, T 17 S, R 27 E  
Eddy County, New Mexico

Order No.

77374

P.M. CL.

35.000

P.M.

30

118

1063

Yellow

696

118

1278

1594

1590

2116

CSU

GUG

-

-

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-

-

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-

-

-

EXAMINER NUTTER

OIL CONSERVATION DIVISION

EXHIBIT NO.

CASE NO. 6633

S.O. - inches

5KG. CPS

Source CPS

Sens. - Cal

I. C. - Cal

Spacing - Before Log

Spacing - Before Log

Spacing - After Log

Spacing - After Log

# COMPENSATED NEUTRON- FORMATION DENSITY

data were furnished by the customer.

ERE \_\_\_\_\_ The well name, location and borehole reference.

LOGGING DATA											
DEPTH	CNP			FDC				GR			
Bottom	Porosity Scale	Matrix	Auto Corr. or Hole Size Setting	Porosity Scale	Grain Density	Liquid Density	Hole Fluid	Sens. Logged	DC	Zero. Div. Left	Scale Per 100 Div
T.D.	30-10	LS-GH	Auto	30-10	2.71	1.1	Liq	100	1	0	100
CSG	"	LS-LH	83/4	-	-	-	-	"		"	"

7600

DST 7629-7788 CISCO  
IF OPEN WEAK BINDER HAD 3/8" CH 187 MCF  
decr 40 H2S 130 MCF

I 2.3 18 ?

1

CISCO PAY

FF 3/8" CK 60" 2.50 MCF  
decr 40 30" 152 MCF

62  
64  
66

72  
74  
76

85

87

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7700

01

08

12

16

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42

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62

61

70

78

81

84

IHS 3749  
60" IF 184-230  
RD/SIP 2480  
45" FF 250-250  
720FSTP 2374  
FHS 3722  
BHT 1400

REG 495' GCHA

I 19 12 GCH

CISCO  
PERFS

CANYON (-4391)

7800



368

8900

T/MORROW 8897

(54%)

41.2

21.22.25

I 8.5 17 F.

5.8

21.26.29.30

I 10 18 F.

12

DST #2 8905 9110 (T/MORROW)

OPEN STRONG 673 4" W/POCK

UNCLIPPED BHT NO. 1400 W/ER  
IN 2W FLOW 3.511M  
@ 2500' ON 1/4" CROPEN 30" J-F  
HAD 775' ON 3/4" CR IN 5"25" 1725' 5.011M  
DECY TO 1560' @ END OF  
CLIP PERIOD

9000

10

TOP 4450

BOTIDM 4435

I 10 28

10

30" FE 2193-3573

2362-3105

I 9.5 27

10

30" ISIP 3396

X 39

I 7.5 35

3

30" FE 2193-2417

2362-2719

I 7.5 35

10

180" ES 3431

3465

I 7 38

6

FH 3 4471

4460

I 7 38

6

BHT 150°

SAMP 14.9 GFC

@ 1715H

10

30" FE 2193-3573

2362-3105

I 9.5 27

10

30" ISIP 3396

X 39

I 7.5 35

3

30" FE 2193-2417

2362-2719

I 7.5 35

10

180" ES 3431

3465

I 7 38

9100

7

30" FE 2193-3573

2362-3105

I 9.5 27

10

30" ISIP 3396

X 39

I 7.5 35

3

30" FE 2193-2417

2362-2719

I 7.5 35

Docket No. 32-79  
Dockets Nos. 35-79 and 36-79 are tentatively set for September 5 and 19, 1979. Applications for hearing must be filed at least 22 days in advance of hearing date.

**DOCKET: EXAMINER HEARING - WEDNESDAY - AUGUST 22, 1979**

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. Nutter, Examiner, or Richard L. Stamets, Alternate Examiner:

**CASE 6545:** (Continued from July 25, 1979, Examiner Hearing)

In the matter of the hearing called by the Oil Conservation Division on its own motion to permit Corinne Graci, Travelers Indemnity Company, and all other interested parties to appear and show cause why the Kuklah Baby Well No. 1 located in Unit G of Section 24, Township 22 South, Range 26 East, Eddy County, New Mexico, should not be plugged and abandoned in accordance with a Division-approved plugging program.

**CASE 6626:** Application of T. H. McElvain Oil & Gas Properties for pool commingling, Rio Arriba County, New Mexico. Applicant, in the above-styled cause, seeks approval for the commingling of Gallup and Dakota production in its Miller B Well No. 6 located in Unit G of Section 12, Township 24 North, Range 7 West.

**CASE 6627:** Application of Caribou Four Corners, Inc. for compulsory pooling, San Juan County, New Mexico. Applicant, in the above-styled cause, seeks an order pooling all mineral interests in the Gallup formation underlying a previously approved 64.32-acre non-standard unit comprising the NW/4 NW/4 and that portion of Lot 5 lying north of the San Juan River, all in Section 18, Township 29 North, Range 14 West, Cha Cha-Gallup Oil Pool, 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 6628:** Application of Texaco Inc. for downhole commingling, Lea County, New Mexico. Applicant, in the above-styled cause, seeks approval for the downhole commingling of Skaggs-Glorieta, Skaggs-Drinkard and East Weir-Blinbry production in the wellbore of its M. B. Weir "B" Well No. 9 located in Unit 0 of Section 12, Township 20 South, Range 37 East.

**CASE 6629:** Application of Hilliard Oil & Gas, Inc. for directional drilling, Lea County, New Mexico. Applicant, in the above-styled cause, seeks authority to directionally drill its Hanson Bonds Well No. 1 located 1650 feet from the North line and 330 feet from the East line of Section 20, Township 9 South, Range 35 East, to a Devonian bottom hole location within 100 feet of a point 1325 feet from the North line and 430 feet from the East line of said Section 20.

**CASE 6630:** Application of El Paso Natural Gas Company for downhole commingling, Rio Arriba County, New Mexico. Applicant, in the above-styled cause, seeks approval for the downhole commingling of Basin-Dakota and BS Mesa-Gallup production in the wellbore of its San Juan 27-4 Unit Well No. 37 located in Unit N of Section 33, Township 27 North, Range 4 West.

**CASE 6631:** Application of Reserve Oil, Inc. for downhole commingling, Lea County, New Mexico. Applicant, in the above-styled cause, seeks approval for the downhole commingling of Jalmat gas and Langlie Mattix oil production in the wellbore of its Cooper Jal Unit Well No. 149-306 located in Unit J of Section 18, Township 24 South, Range 37 East.

**CASE 6632:** Application of Mesa Petroleum Company for a dual completion, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks approval for the dual completion of its Frank State Well No. 1 located in Unit I of Section 7, Township 19 South, Range 23 East, to produce gas from the Abo and Morrow formations, Runyan Ranch Field, through the casing-tubing annulus and through tubing.

**CASE 6633:** Application of Mesa Petroleum Company for a dual completion, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks approval for the dual completion of its Yates Federal Com Well No. 1-Y located in Unit J of Section 20, Township 17 South, Range 27 East, to produce gas from the Logan Draw-Cisco Canyon Gas Pool and an undesignated Morrow pool through the casing-tubing annulus and through tubing.

**CASE 6634:** Application of Durham Inc. for special pool rules or a spacing exception, Chaves County, New Mexico. Applicant, in the above-styled cause, seeks the promulgation of special pool rules for the Lake Arthur-Pennsylvanian Gas Pool to provide for 320-acre spacing rather than 160 acres. In the absence of objection, this pool will be placed on the standard 320-acre spacing for Pennsylvanian gas pools rather than the present 160-acre spacing. In the alternative applicant seeks to limit the application of the pool's rules to the horizontal limits of the pool, being the SW/4 of Section 31, Township 15 South, Range 27 East.

TOWNSHIP 25 NORTH, RANGE 12 WEST, NMPM

Section 4: N/2 and SE/4  
Section 5: N/2  
Section 6: N/2  
Section 9: NE/4  
Section 10: NW/4

TOWNSHIP 26 NORTH, RANGE 12 WEST, NMPM

Section 19: SW/4  
Section 20: W/2  
Section 31: W/2

(c) CREATE a new pool in San Juan County, New Mexico, classified as a gas pool for Fruitland production and designated as the Farmer-Fruitland Pool. The discovery well is Manana Gas, Incorporated Bobbie Herrera Well No. 1 located in Unit K of Section 4, Township 30 North, Range 11 West, NMPM. Said pool would comprise:

TOWNSHIP 30 NORTH, RANGE 11 WEST, NMPM

Section 4: SW/4

(d) CREATE a new pool in San Juan County, New Mexico, classified as an oil pool for Pennsylvanian production and designated as the Big Gap-Pennsylvanian Oil Pool. The discovery well is Bass Enterprises Production Company Navajo 20 Well No. 1 located in Unit O of Section 20, Township 27 North, Range 19 West, NMPM. Said pool would comprise:

TOWNSHIP 27 NORTH, RANGE 19 WEST, NMPM

Section 20: SE/4

(e) EXTEND the Aztec-Fruitland Pool in San Juan County, New Mexico, to include therein:

TOWNSHIP 29 NORTH, RANGE 10 WEST, NMPM

Section 29: NE/4

TOWNSHIP 29 NORTH, RANGE 11 WEST, NMPM

Section 25: SE/4

(f) EXTEND the Aztec-Pictured Cliffs Pool in San Juan County, New Mexico, to include therein:

TOWNSHIP 31 NORTH, RANGE 11 WEST, NMPM

Section 35: E/2

(g) EXTEND the Bisti-Lower Gallup Oil Pool in San Juan County, New Mexico, to include therein:

TOWNSHIP 26 NORTH, RANGE 14 WEST, NMPM

Section 9: E/2 SE/4  
Section 10: SW/4  
Section 15: N/2 NE/4

(h) EXTEND the Blanco Mesaverde Pool in Rio Arriba and San Juan Counties, New Mexico, to include therein:

TOWNSHIP 25 NORTH, RANGE 3 WEST, NMPM

Section 4: N/2

TOWNSHIP 26 NORTH, RANGE 2 WEST, NMPM

Section 30: All (Partial Section)  
Section 31: All (Partial Section)

TOWNSHIP 27 NORTH, RANGE 2 WEST, NMPM

Section 16: W/2  
Section 20: E/2  
Section 21: NW/4

(i) EXTEND the Blanco-Pictured Cliffs Pool in San Juan County, New Mexico, to include therein:

TOWNSHIP 29 NORTH, RANGE 8 WEST, NMPM

Section 4: NW/4  
Section 5: NE/4

TOWNSHIP 30 NORTH, RANGE 14 WEST, NMPM  
Section 35: N/2 and SE/4

- (q) EXTEND the Harris Mesa-Chacra Pool in San Juan County, New Mexico, to include therein:

TOWNSHIP 27 NORTH, RANGE 9 WEST, NMPM  
Section 5: NE/4

TOWNSHIP 28 NORTH, RANGE 9 WEST, NMPM  
Section 32: E/2

- (r) EXTEND the Kutz-Fruitland Pool in San Juan County, New Mexico, to include therein:

TOWNSHIP 28 NORTH, RANGE 11 WEST, NMPM  
Section 32: NE/4

- (s) EXTEND the West Kutz-Pictured Cliffs Pool in San Juan County, New Mexico, to include therein:

TOWNSHIP 28 NORTH, RANGE 11 WEST, NMPM  
Section 26: SW/4

- (t) EXTEND the La Plata-Gallup Oil Pool in San Juan County, New Mexico, to include therein:

TOWNSHIP 32 NORTH, RANGE 13 WEST, NMPM  
Section 32: N/2 and SW/4

- (u) EXTEND the West Lincoln Gallup-Dakota Oil Pool in Rio Arriba County, New Mexico, to include therein:

TOWNSHIP 24 NORTH, RANGE 3 WEST, NMPM  
Section 6: S/2 (Partial Section)  
Section 18: All (Partial Section)

TOWNSHIP 24 NORTH, RANGE 4 WEST, NMPM  
Section 5: N/2  
Section 6: N/2  
Section 24: SE/4  
Section 25: NE/4

- (v) EXTEND the Otero-Chacra Pool in Rio Arriba and San Juan Counties, New Mexico, to include therein:

TOWNSHIP 26 NORTH, RANGE 7 WEST, NMPM  
Section 3: All  
Section 4: All  
Section 10: N/2 and SE/4

- (w) EXTEND the Rusty-Chacra Pool in Sandoval County, New Mexico, to include therein:

TOWNSHIP 22 NORTH, RANGE 7 WEST, NMPM  
Section 20: SE/4  
Section 21: E/2 and SW/4

- (x) EXTEND the Straight Canyon-Dakota Pool in San Juan County, New Mexico, to include therein:

TOWNSHIP 31 NORTH, RANGE 16 WEST, NMPM  
Section 14: SE/4

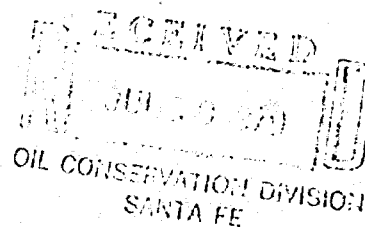
- (y) EXTEND the WAW Fruitland-Pictured Cliffs Pool in San Juan County, New Mexico, to include therein:

TOWNSHIP 26 NORTH, RANGE 12 WEST, NMPM  
Section 29: S/2  
Section 30: E/2  
Section 32: N/2

TOWNSHIP 26 NORTH, RANGE 13 WEST, NMPM  
Section 13: E/2 and SW/4  
Section 14: SE/4

TOWNSHIP 27 NORTH, RANGE 13 WEST, NMPM  
Section 18: E/2





Case 6633

July 26, 1979

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

Re: Mesa Petroleum Co  
Frank State #1  
2130 FSL & 660 FEL  
Sec 7, T19S, R23E  
Eddy County, New Mexico

Mesa Petroleum Co  
Yates Federal Com #1-Y  
1980 FSL & 1995 FEL  
Sec 20, T17S, R27E  
Eddy County, New Mexico

Subject: Request for multiple completion hearing

Gentlemen:

It is requested that applications for multiple completion for the above captioned wells be entered on the docket scheduled for August 22, 1979. Said applications for completion are being filed as required by Rule 112-A.

Please notify R. E. Mathis, Regulatory Coordinator, Mesa Petroleum Co, 1000 Vaughn Building, Midland, Texas 79701 (Phone No. 915/683-5391) if additional information is required or if the scheduled hearing date is changed.

Thank you,

  
R. E. Mathis

REM/vlh

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

Form C-107  
5-1-61

RECEIVED  
JUL 19 1979  
OIL CONSERVATION DIVISION  
SANTA FE, N.M. 87501  
Case 6633

Operator Mesa Petroleum Co.		County Eddy		Well No. 1-Y	
Address 1000 Vaughn Bldg., Midland, Tx 79701		Lease Yates Federal Com			
Location of Well	Unit J	Section 20	Township 17 South	Range 27 East	

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	Cisco		Morrow
b. Top and Bottom of Pay Section (Perforations)	7662' - 7784'		8921' - 9069'
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 112A.)

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

There are no producing offset wells outside of the Mesa Unit. The following lease holders have been notified of this application: AMOCO PRODUCTION CO., P.O. BOX 68, HOBBS, NM. 88240; YATES PETROLEUM CO., 207 S. 4th ST., ARTESIA, NM 88210; B. ANDERSON, 600 SW TOWER, HOUSTON, TX 77002; R. PETERSON, P.O. BOX 8, DOUGLAS, WY 82633 as having interest in this well.

6. Were all operators listed in Item 5 above notified and furnished a copy of this application? YES XX NO \_\_\_\_\_. If answer is yes, give date of such notification July 12, 1979.

CERTIFICATE: I, the undersigned, state that I am the Regulatory Coordinator of the Mesa Petroleum Co. (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.

R. E. Martin

Signature

XC: NMOC, MEC, FILE, OFFSET OPERATIONS

\*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 production unit in one or more of the producing zones, then separate application for approval of the same should be filed simultaneously with this application.



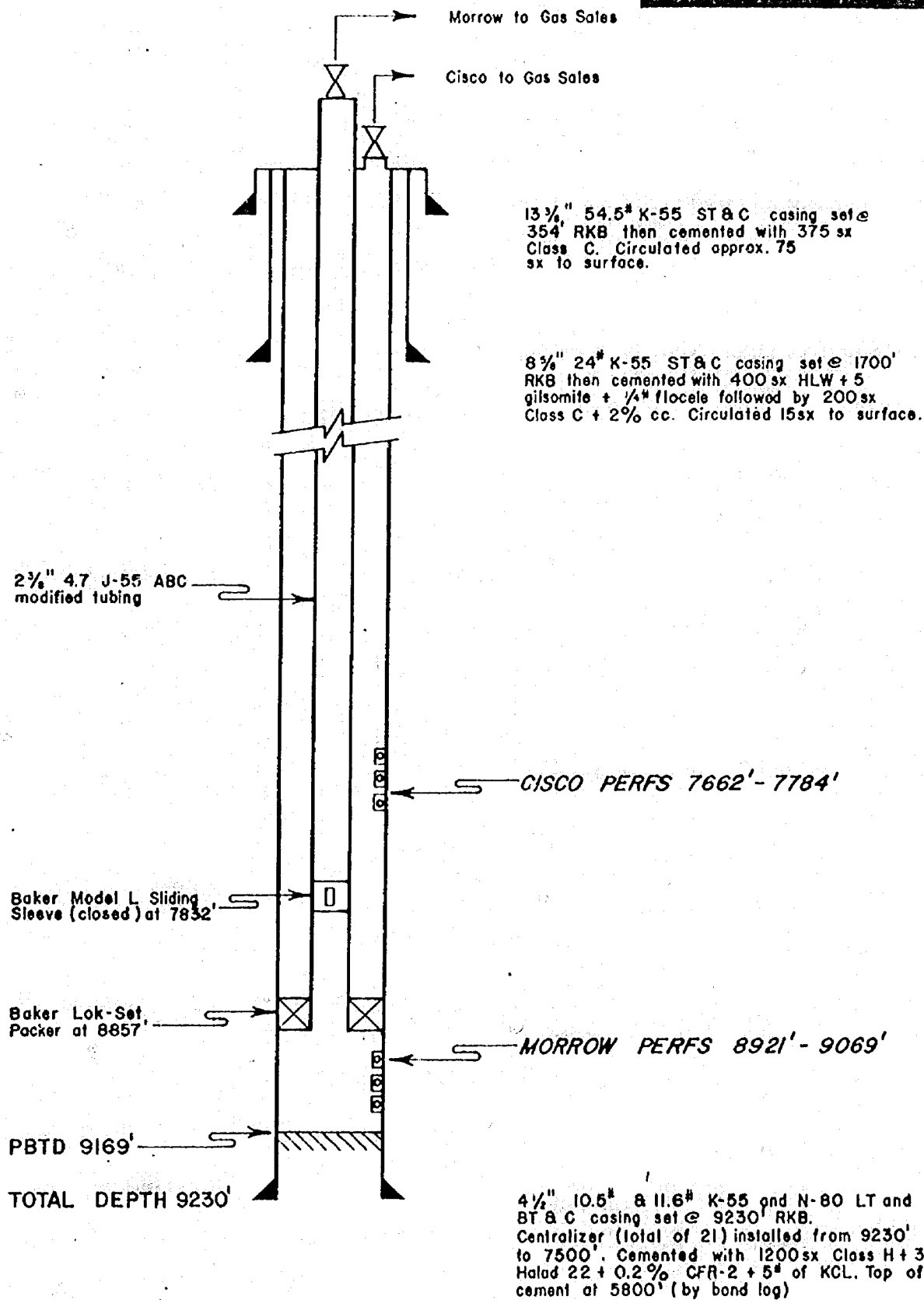
**MESA**  
PETROLEUM CO.  
PERMIAN BASIN DIVISION



**YATES FEDERAL COM I-Y**  
SEC 20, T 17S, R 27E  
Eddy Co., New Mexico

BY  
DATE

DRAWN BY  
SCALE:



State	State	State	State	State	State
<p>11</p> <p>12</p> <p>13</p> <p>14</p> <p>15</p> <p>16</p> <p>17</p> <p>18</p> <p>19</p> <p>20</p> <p>21</p> <p>22</p> <p>23</p> <p>24</p> <p>25</p> <p>26</p> <p>27</p> <p>28</p> <p>29</p> <p>30</p> <p>31</p> <p>32</p> <p>33</p> <p>34</p> <p>35</p> <p>36</p> <p>37</p> <p>38</p> <p>39</p> <p>40</p> <p>41</p> <p>42</p> <p>43</p> <p>44</p> <p>45</p> <p>46</p> <p>47</p> <p>48</p> <p>49</p> <p>50</p> <p>51</p> <p>52</p> <p>53</p> <p>54</p> <p>55</p> <p>56</p> <p>57</p> <p>58</p> <p>59</p> <p>60</p> <p>61</p> <p>62</p> <p>63</p> <p>64</p> <p>65</p> <p>66</p> <p>67</p> <p>68</p> <p>69</p> <p>70</p> <p>71</p> <p>72</p> <p>73</p> <p>74</p> <p>75</p> <p>76</p> <p>77</p> <p>78</p> <p>79</p> <p>80</p> <p>81</p> <p>82</p> <p>83</p> <p>84</p> <p>85</p> <p>86</p> <p>87</p> <p>88</p> <p>89</p> <p>90</p> <p>91</p> <p>92</p> <p>93</p> <p>94</p> <p>95</p> <p>96</p> <p>97</p> <p>98</p> <p>99</p> <p>100</p>	<p>11</p> <p>12</p> <p>13</p> <p>14</p> <p>15</p> <p>16</p> <p>17</p> <p>18</p> <p>19</p> <p>20</p> 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Well: MESA PET. CO. 1 Yates Federal Com. 20-17S-27E  
Loc'n: 18 mi W/Locho Hills, 1980' FSEL's Sec 20-17S-27E.

Result: D&A

WF

Spud: 6-29-77; Comp: 8-3-77; Elev: 3385' g.l; TD: 445' Perm;  
Casing: NR  
Comp Info: NR; C. Jenkins,  
Tops: NR  
API No.: 30-015-22193

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 **Petroleum Information**  
CORPORATION  
A Subsidiary of A.C. Jones Company

Date:

8-31-77

Card No.: 1 rm

ODDY COUNTY

NEW MEXICO

20-17S-27E

Well: ERNEST A. HANSON #1 Flood Federal "OWDD"  
Loc'n: Sec 20-17S-27E, 1980' FSL, 660' FWL of Sec; 7 mi SE/Artesia in N/Central part county;  
2 1/2 mi N/Red Lake Fld; (OTD 460')

WILDCAT

Result: D&A

Spud: 9-22-68; Comp: 12-1-68; Elev: NR; TD: 1290'  
Casing: 7" 1282'/475 sx.  
Comp Info: No cores or test;  
Tops: NR

 **Geo Research**  
OIL REPORTS

Date:

6-18-69

Card No.:

4

NM

ss

WELLS ON LEASE WITH SUBJECT WELL.

**WELL FILE**  
**Schlumberger**

**COMPENSATED NEUTRON-  
FORMATION DENSITY**

COMPANY Mesa Petroleum Co.  
2'45" DETAIL 5"  
WELL # 1-Y Yule, Fed. Com  
FIELD South Riverside VWJ  
COUNTY Eddy STATE New Mexico

LOCATION 1980 FSL 4-1445 TLL  
API SERIAL NO. 20 SEC. 17-S TWP. 27-E

Other Services:  
DLR-R<sub>20</sub>

Permanent Datum: GL, Elev.: 3384  
Log Measured From: KB, 12 Ft. Above Perm. Datum  
Drilling Measured From: KB

Elev.: X.B. 3401  
D.F. 3384

Date	<u>March 9, 1979</u>			
Run No.	<u>ONE</u>			
Depth-Driller	<u>9230</u>			
Depth-Logger	<u>9230</u>			
Btm. Log Interval	<u>9229</u>			
Top Log Interval	<u>0</u>			
Casing-Driller	<u>8 5/8 @ 1700</u>	@	@	@
Casing-Logger	<u>1697</u>			
Bit Size	<u>7 1/8</u>			
Type Fluid in Hole	<u>Sea Mud / Drispar / KC</u>			
Dens.	<u>9.6</u>	<u>41</u>		
Visc.	<u>NC</u>	<u>7</u> ml		
pH				
Fluid Loss				
Source of Sample	<u>P.L.</u>			
Rm @ Meas. Temp.	<u>.20 @ 70°F</u>	@	°F	@
Rmf @ Meas. Temp.	<u>.17 @ 70°F</u>	@	°F	@
Rmc @ Meas. Temp.	<u>.30 @ 70°F</u>	@	°F	@
Source: Rmf	<u>M</u>			
Rmc	<u>C</u>			
Rm @ BHT	<u>.10 @ 138°F</u>	@	°F	@
Circulation Stopped	<u>1100</u>			
Logger on Bottom	<u>1600</u>			
Max. Rec. Temp.	<u>138</u> °F		°F	
Equip.	<u>8042 H0555</u>			
Location				
Recorded By	<u>M. G. Inley</u>			

*Thanks!*

FOLD HERE The well name, location and base-hole reference data were furnished by the customer.

RUN NO.	<u>ONE</u>	Type Log	Depth	REMARKS: <u>Neut settings changed from 15-0H to 15-CH at casing point.</u>
Service Order No.	<u>77374</u>			
Fluid Level	<u>Full</u>			
Salinity, PPM CL	<u>35,000</u>			
Speed - F.P.M.	<u>30</u>			
EQUIPMENT DATA				
Dens. Panel	<u>118</u>			
Dens. Cart.	<u>1063</u>			
Dens. Skid.	<u>Yellow</u>			
Dens. Sonde				
Dens. Source	<u>696</u>			
Dens. Calibrator	<u>118</u>			
Neut. Panel	<u>1278</u>			
Neut. Cart.	<u>1594</u>			
Neut. Source	<u>1590</u>			
Neut. Calibrator	<u>1116</u>			
GR Cart.	<u>CS2</u>			
Memorizer Panel	<u>946</u>			
Tape Recorder (TR)				
Depth Encoder (DRE)				
Pressure Wheel (CPW)				
Centralizers:				
Enter Spring				
Standoffs:				
In-line, or None				
CALIBRATION DATA				
BKG. CPS				
Source CPS				
Sens. - Cal				
T. C. - Cal				
GR				
Short Spacing - Before Log				
Long Spacing - Before Log				
Short Spacing - After Log				
Long Spacing - After Log				



# Schlumberger

COUNTY \_\_\_\_\_  
FIELD \_\_\_\_\_  
LOCATION \_\_\_\_\_  
WELL \_\_\_\_\_  
COMPANY \_\_\_\_\_

Permanent Datum: SL; Elev.: 3384  
Log Measured From K15, 17 Ft. Above Perm. Datum  
Drilling Measured From K15

Date	Mach. 9/19/79									
Run No.	ONE									
Depth-Driller	9230									
Depth-Logger	9230									
Btm. Log Interval	9229									
Top Log Interval	0									
Casing-Driller	858 @ 1700									
Casing-Logger	1697									
Bit Size	7 1/8									
Type Fluid in Hole	See Mud Disposal/KC									
Dens.	Visc.									
pH	Fluid Loss									
Source of Sample	R/L									
Rm @ Meas. Temp.	.20 @ 70°F		@		°F		@		°F	
Rmf @ Meas. Temp.	.17 @ 70°F		@		°F		@		°F	
Rmc @ Meas. Temp.	.30 @ 70°F		@		°F		@		°F	
Source: Rmf	M		C							
Rm @ BHT	.10 @ 138°F		@		°F		@		°F	
Circulation Stopped	1100									
Logger on Bottom	1600									
Max. Rec. Temp.	138°F				°F				°F	
Equip. Location	8042 Hobbs									
Recorded By	M. G. Wiley									

The well name, location and borehole reference data were furnished by the customer.

RUN NO.		one								Type Log	Depth		
Service Order No.		77374											
Fluid Level		full											
Salinity, PPM CL.		35.000											
Speed - F.P.M.		30											
<b>EQUIPMENT DATA</b>													
Dens. Panel		118								<b>REMARKS:</b>  Dens. settings changed from LS-OH to LS-CH at casing point.			
Dens. Cart.		1063											
Dens. Skid.		Yellow											
Dens. Source													
Dens. Calibrator		696											
Neut. Panel		118											
Neut. Cart.		1278											
Neut. Source		1394											
Neut. Calibrator		1390											
GR Cart.		2116											
Memorizer Panel		CSW											
Tape Recorder (TTR)		946											
Depth Encoder (DRE)		-											
Pressure Wheel (CPW)		-											
Centralizers:		Type		Bow Spring									
Enter Spring,		No.		1									
Standoffs,		S. O. - Inches		-									
In-line, or None													
<b>CALIBRATION DATA</b>													
GR		BKG. CPS		See									
		Source CPS											
		Sens. - Cal											
		T. C. - Cal											
Short Spacing - Before Log		Cal											
Long Spacing - Before Log													
Short Spacing - After Log													
Long Spacing - After Log													
P1 - Before Log		film											
P2 - Before Log													
P1 - After Log													
P2 - After Log													

# LOGGING DATA

DEPTH		CNP			FDC				GR			
Top	Bottom	Porosity Scale	Matrix	Auto Corr. or Hole Size Setting	Porosity Scale	Grain Density	Liquid Density	Hole Fluid	Sens. Logged	DC	Zero. Div. Left	Sec. Pe 100
656	TD	30-10	LS-OH	Auto	30-10	2.71	1.1	Liq	100	1	0	100
0	656	"	LS-LH	8 3/4	-	-	-	-	"			

All interpretations are opinions based on inferences from electrical or other measurements and we cannot, and do not guarantee the accuracy or correctness of any interpretations, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs, damages or expenses incurred or sustained by anyone resulting from any interpretation made by any of our officers, agents or employees. These interpretations are also subject to Clause 4 of our General Terms and Conditions as set out in our current Price Schedule.

DEPTH	CALIPER	DIAM. IN INCHES	5" film	POROSITY INDEX %	Lime	MATRIX	
	GAMMA RAY	API UNITS	COMPENSATED FORMATION DENSITY POROSITY				
			30	20	10	0	-10
			COMPENSATED NEUTRON POROSITY				
			30	20	10	0	-10

## FIELD PRINT SECTION

DEPTH	CALIPER	DIAM. IN INCHES	2" film	CORRECTION	GRAMS CC		
	GAMMA RAY	API UNITS	Use this scale when correction curve is presented in Track 2 OR Use this scale when correction curve is presented in Track 3				
			0	+ .25	- .25	0	+ .25
			BULK DENSITY				
			2.0	2.5	GRAMS CC	3.0	



7600

1

DST 7624-7788 CISC0  
 IF OPEN WEAK BIPAD HAD 3/4" CH 187 MCF  
 decr 7D #25 130 MCF

I 23 18

CISCO PAY

FF 3/4" CH 60# 250 MCF  
 decr 7D 30# 152 MCF

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CISC0  
PERFS

IHS 3749  
 60" FR 184-250  
 70" SIP 2480  
 45" FR 250-250  
 120 FSTP 2374  
 IHS 3722  
 BHT 180"

I 19 12 6

REG. 495' GC1A

CANYON (-4391)

7800

8900

T/MORRO 6897

(-54%)

4450

21,22,23

I 8.5 17 FAI

5450

27,28,29,30

I 10 18 FA

12

DST# 2 8905 - 9110 (MORRO)

OPEN STRONG 675-9" W/POD

UNLOADED BAT. NO. 1400 MTR  
IN 26" FIRM 3.5 MTR  
@ 2500' ON 1/4" CHOPEN 30" AF  
HAD 275' ON 5/8" CH IN 5"25" 17.25" 5.0" 1/4"  
DECY 40 1500' @ END OF  
EXP. PERIOD

9000

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TOP 4438

BOTTOM 4435

30" 2193-3573 2366-3605

30" 3396 3639

30" 2193-2417 2366-2719

180" 3431 3465

FH 3 4411 4460

BHT 150'

SAMP 14.9 CHG

@ 1715'

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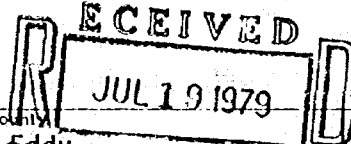
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NEW MEXICO OIL CONSERVATION COMMISSION  
SANTA FE, NEW MEXICO  
APPLICATION FOR MULTIPLE COMPLETION

Form C-107  
5-1-61



Case 6633

Operator Mesa Petroleum Co.		County Eddy	Date July 12, 1979
Address 1000 Vaughn Bldg., Midland, Tx 79701		Lease Yates Federal Com	Well No. 1-Y
Location of Well J	Unit 20	Township 17 South	Range 27 East

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	Cisco		Morrow
b. Top and Bottom of Pay Section (Perforations)	7662' - 7784'		8921' - 9069'
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.

There are no producing offset wells outside of the Mesa Unit. The following lease holders have been notified of this application: AMOCO PRODUCTION CO, P.O. BOX 68, HOBBS, NM. 88240; YATES PETROLEUM CO., 207 S. 4th ST., ARTESIA, NM 88210; B. ANDERSON, 600 SW TOWER, HOUSTON, TX 77002; R. PETERSON, P.O. BOX 8, DOUGLAS, WY 82633 as having interest in this well.

6. Were all operators listed in Item 5 above notified and furnished a copy of this application? YES XX NO \_\_\_\_\_. If answer is yes, give date of such notification July 12, 1979.

CERTIFICATE: I, the undersigned, state that I am the Regulatory Coordinator of the Mesa Petroleum Co. (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.

R. P. Mathis  
Signature

XC: NMOC, MEC, FILE, OFFSET LIENAYERS

\*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.



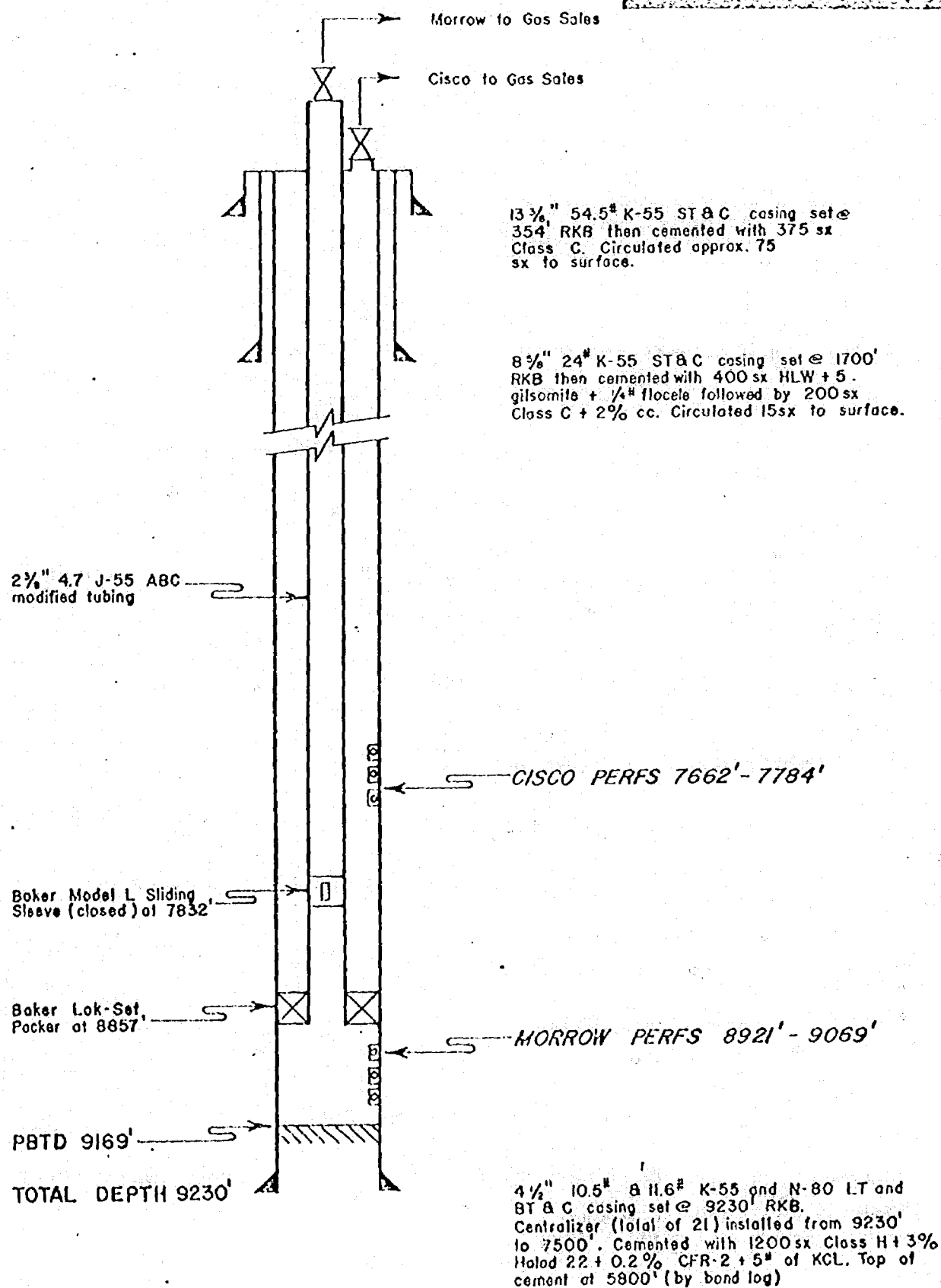
**MESSER**  
PETROLEUM CO.  
PERMIAN BASIN DIVISION



**YATES FEDERAL COM I-Y**  
SEC 20, T 17S, R 27E  
Eddy Co., New Mexico

BY:  
DATE

ORIGIN BY:  
SCALE:





[illegible]

Loc'n: 18 mi W/Loco Hills, 1980' F55EL's Sec 20-17S-27E.

Result: Dr.A

WF

Spud: 6-29-77; Comp: 8-3-77; Elev: 3385' g.l; TD: 445' Perm;  
Casing: NR  
Comp Info: NR; C./Jenkins.  
Tops: NR  
API No.: 30-015-22193

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REPRODUCTION PROHIBITED

 Petroleum Information  
CORPORATION  
A Subsidiary of A.C. Indus. Company

Date: 8-31-77

Card No.: 1 nm

LODDY COUNTY

NEW MEXICO

WILDCAT

Well: ERNEST A. HANSON #1 Flood Federal "OWDD" Result: DEA  
Loc'n: Sec 20-17S-27E, 1980' FSL, 660' FWL of Sec; 7 mi SE/Artesia in N/Central part county;  
2 1/2 mi N/Red Lake Fld; (OTD 460')

Spud: 9-22-68; Comp: 12-1-68; Elev: NR; TD: 1290'  
Casing: 7" 1282'/475 sx.  
Comp Info: No cores or test;  
Tops: NR

 Sea Ruskett  
OIL REPORTS

Date: 6-18-69

Card No.: 4 NM ss

WELLS ON LEASE WITH SUBJECT WELL.

## WELL FILE

Schlumberger

COMPENSATED NEUTRON  
FORMATION DENSITYCOMPANY Mesa Petroleum Co.

2" x 5" DETAIL 5"

WELL # 1-Y Yata. Field ComFIELD South Riverside VNJCOUNTY Eddy STATE New MexicoLOCATION 1980 FSL 4-1445 1 LL

Other Services:

DLL-R<sub>20</sub>API SERIAL NO. 20 SEC. 17-S TWP. 27-E RANGEPermanent Datum: GL; Elev.: 3384  
Log Measured From KB, 17 Ft. Above Perm. Datum  
Drilling Measured From KBElev.: K.B. 1401D.F. 3384G.I. 3384

Log No.	<u>March 9, 1979</u>				
Bit-Driller	<u>ONE</u>				
Bit-Logger	<u>9230</u>				
Log Interval	<u>9230</u>				
Log Interval	<u>9239</u>				
Log-Driller	<u>85/8 @ 1700</u>	@	@	@	@
Log-Logger	<u>1697</u>				
Size	<u>7 1/8</u>				
Fluid in Hole	<u>Sea Mud / Drispar / KCL</u>				
Visc.	<u>9.6</u>				
Fluid Loss	<u>NL</u>	<u>7</u> ml			
Core of Sample	<u>PL</u>				
@ Meas. Temp.	<u>20 @ 70°F</u>	@	@	@	@
@ Meas. Temp.	<u>17 @ 70°F</u>	@	@	@	@
@ Meas. Temp.	<u>30 @ 70°F</u>	@	@	@	@
Source: Rml Rmc	<u>M C</u>				
@ BHT	<u>10 @ 138°F</u>	@	@	@	@
Regulation Stopped	<u>1100</u>				
Logger on Bottom	<u>1600</u>				
Rec. Temp.	<u>138</u> °F				
Location	<u>80421A0555</u>				
Recorded By	<u>M. G. Sullivan</u>				

Thanks!

The well name, location and borehole reference data were furnished by the customer.

IN NO.	Service Order No.	Depth	Type Log	REMARKS:
	<u>509</u>			
	<u>77374</u>			
	<u>full</u>			
	<u>35000</u>			
	<u>30</u>			
EQUIPMENT DATA				
ns. Panel	<u>118</u>			
ns. Cart.	<u>1063</u>			
ns. Skid.	<u>Yellow</u>			
ns. Sonde				
ns. Source				
ns. Calibrator	<u>696</u>			
ut. Panel	<u>118</u>			
ut. Cart.	<u>1278</u>			
ut. Source	<u>1594</u>			
ut. Calibrator	<u>1590</u>			
ut. Cart.	<u>2116</u>			
Smorizer Panel	<u>CSU</u>			
pc Recorder (TTR)	<u>946</u>			
pth Encoder (DRE)				
essure Wheel (CPW)				
ntrolizers:				
ter Spring,				
andoffs,				
line, or None				
S. O. — Inches				
ALIBRATION DATA				
BKG. CPS				
Source CPS				

Down settings changed from 15-0H to 15-C at casing point

# COMPENSATED NEUTRON- FORMATION DENSITY

API SERIAL NO.		SEC.	TWP.	RANGE
20		13	6	2
LOCATION				
1980 F3241445 1 1 1				
Other Services:				
DL-8x0				
COMPANY Mesa Petroleum Co.				
2 1/4 5" DETAIL 5" 11				
WELL # 1-Y 1st. Field Cam				
FIELD South Riverside WMS				
COUNTY Eddy STATE New Mexico				

Other Services:  
DLC-Rx0

Elev.: K.B. 3401  
D.F.             
G.L. 3384

Run No.	Mud 91979					
Depth-Driller	DVF					
Depth-Logger	9230					
Sim. Log Interval	9230					
Top Log Interval	9229					
Casing-Driller	858 @ 1700					
Casing-Logger	1697					
Bit Size	7 1/8					
Type Fluid in Hole	See Mud / Drispar / KC					
Dens.	9.6					
Visc.	41					
pH	14.6					
Fluid Loss	7 ml					
Source of Sample	AL					
Rm @ Meas. Temp.	.20 @ 70°F					
Rmf @ Meas. Temp.	1.7 @ 70°F					
Rmc @ Meas. Temp.	3.0 @ 70°F					
Source: Rmf	M					
Rmc	C					
Rm @ BHT	.10 @ 138°F					
Circulation Stopped	1100					
Logger on Bottom	1600					
Max. Rec. Temp.	138 °F					
Equip. location	8042 H0555					
Recorded By	M/S/MLN					

OLD HERE ..... The well name, location and borehole reference data were furnished by the customer.

IN NO.	one	
Service Order No.	77374	
Bid Level	full	
Quality, PPM CL.	35.000	
Feed - F.P.M.	30	
EQUIPMENT DATA		

[illegible]

REMARKS:

Phone sellings changed from LS-OH to LS-C at casing point.

EQUIPMENT DATA	
ns. Panel	118
ns. Cart.	1063
ns. Skid.	Yellow
ns. Sonde	
ns. Source	
ns. Calibrator	696
ut. Panel	118
ut. Cart.	1278
ut. Source	1394
ut. Calibrator	1390
R Cart.	2116
emorizer Panel	CS12
pe Recorder (TTR)	946
pth Encoder (DRE)	-
essure Wheel (CPW)	-
utralizers:	Type
ter Spring,	No.
andoffs,	Bow spring
line, or None	1
ALIBRATION	S. O. - Inches

LIBRATION DATA

BKG. CPS	
Source CPS	



DEPTH		LOGGING DATA												
Top	Bottom	Porosity Scale	CNP	Matrix	Auto Corr. or Hole Size Setting	Porosity Scale	FDC	Grain Density	Liquid Density	Hole Fluid	Sens. Logged	GR		
56	TD 636	30-10		LS-OH LS-CH	Auto 8 3/4	30-10		2.71	1.1	Liq	100	1	0	100

All interpretations are opinions based on inferences from electrical or other measurements and we cannot, and do not guarantee the accuracy or correctness of any interpretations, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs, damages sustained by anyone resulting from any interpretation made by any of our officers, agents or employees. These interpretations are made under the terms and conditions as set out in our current Price Schedule.

CALIPER	DIAM. IN INCHES
0	5 1/4

All interpretations are opinions based on inferences from electrical or other measurements and we cannot, and do not guarantee the accuracy or correctness of any interpretations, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs, damages or expenses incurred or sustained by anyone resulting from any interpretation made by any of our officers, agents or employees. These interpretations are also subject to Clause 4 of our General Terms and Conditions as set out in our current Price Schedule.

**CALIPER** DIAM. IN INCHES

16

**GAMMA RAY** API UNITS

100

200

5" film

**POROSITY INDEX %** Lime **MATRIX**

COMPENSATED FORMATION DENSITY POROSITY

30 20 10 0 -10

COMPENSATED NEUTRON POROSITY

30 20 10 0 -10

**CALIPER** DIAM. IN INCHES

16

**GAMMA RAY** API UNITS

100

200

**FIELD PRINT SECTION**

2" film

**CORRECTION**

Use this scale when correction curve is presented in Track 2 OR Use this scale when correction curve is presented in Track 3

GRAMS CC

0 - .25 0 + .25

**BULK DENSITY** 2.5 GRAMS CC

2.0 3.0

1

DST 7624-7738 CISC0  
IF OPEN WRAK BLOWN #AD 3/8" CH 1871ACF  
decy 70 725 1301ACF

I 23 18

CISCO PAY

FF 3/8" CH 60# 2501ACF  
APPR 70 30# 1581ACF

I 19 12

IHS 3749  
60" IF 184-350  
20" ISIP 2480  
45" FF 250-250  
12251P 2374  
FHS 3722  
BHT 1800

REQ. 495' GCIA

CISCO  
PERES

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62  
61  
70  
78  
81  
84

7800

CANYON (-4391)

8900

THADP ROW 8897

(54%)

41  
5

21, 22, 23  
21, 28, 29, 30

I 8.5 17 FA  
I 10 18 FA

12

1000

9000

PSI # 2 8905 - 9110 (THADP)  
OPEN STRONG GTS 4" W/ 800H  
UNCOATED CAT HOE 1400T WTR  
IN 26" FLOW 3.511M  
@ 2500H ON 140H  
APR 30" FF  
HAD 275H ON 1/4" CH IN 5"  
25" 1725H 5.011M  
DECY 40 1560H @ END OF  
FLIP PERIOD

10  
10  
30

TDP BOTTOM  
1H 4458 4435  
30" 2193-3573 2366-3805  
30" 3396 X 39  
30" 2193-2617 2366-2719  
120" 3431 3465  
FH 3 4411 4460  
BHT 150°  
SAMP 14.9 CFC  
@ 1715H

I 10 28  
I 9.5 27  
I 7.5 35  
I 7 38

6  
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58  
69

I 9.5 20  
I 11 38

9100

70  
80

9139 (5138)

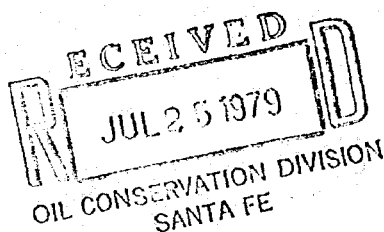
I 3 30  
I 5 35

OIL CONSERVATION COMMISSION  
Alameda DISTRICT

OIL CONSERVATION COMMISSION  
BOX 2088  
SANTA FE, NEW MEXICO

DATE 7-25-79

RE: Proposed MC X  
Proposed DHC \_\_\_\_\_  
Proposed NSL \_\_\_\_\_  
Proposed SWD \_\_\_\_\_  
Proposed WFX \_\_\_\_\_  
Proposed PMX \_\_\_\_\_



Gentlemen:

I have examined the application dated 7-12-79  
for the Mesa Petroleum Co. Gates Fed. Com #14- J- 20-17-27  
Operator Lease and Well No. Unit, S-T-R

and my recommendations are as follows:

Set for hearing  
does not qualify for administrative  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Yours very truly,

W.A. Gressett

ROUGH

dr/

STATE OF NEW MEXICO  
ENERGY AND MINERALS DEPARTMENT  
OIL CONSERVATION DIVISION

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

CASE NO. 6633

Order No. R- 6115

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

ORDER OF THE DIVISION

BY THE DIVISION:

This cause came on for hearing at 9 o'clock a.m. on  
August 22, 1979, at Santa Fe, New Mexico, before  
Examiner Daniel S. Nutter.

NOW, on this day of August, 1979, the  
Division Director, having considered the testimony, the record,  
and the recommendations of the Examiner, and being fully advised  
in the premises,

FINDS:

(1) That due public notice having been given as required by  
law, the Division has jurisdiction of this cause and the subject  
matter thereof.

(2) That the applicant, Mesa Petroleum Company,  
seeks authority to complete its Yates Federal Com  
Well No. 1-Y, located in Unit J of Section 20, Town-  
ship 17 South, Range 27 East, NMPM, Eddy  
County, New Mexico, as a dual completion (conventional) to  
(combination)  
(tubingless)  
oil--  
produce gas from the Logan Draw-Cisco Canyon Gas Pool and an undesignated  
Morrow pool through the casing-tubing annulus and through tubing.

2 3/8-inch  
tubing and gas from the Logan Draw-Cisco Canyon  
Gas Pool through the casing-tubing annulus, separa-  
tion of the zones to be achieved by means  
of a packer set at 8857 feet.



(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, Mesa Petroleum Company, is hereby authorized to complete its Yates Federal Com Well Well No. 1-Y, located in Unit J of Section 20, Township 17 South, Range 27 East, NMPM, Eddy County, New Mexico, as a dual completion (conventional) ~~(combination)~~ ~~(tubingless)~~

--oil--  
to produce gas from the Logan Draw-Cisco Canyon Gas Pool and an undesignated Morrow pool through the casing-tubing annulus and through 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 Division Rules and Regulations insofar as said rule is not inconsistent with this order;

PROVIDED FURTHER, that the applicant shall take Packer Leakage tests upon completion and annually thereafter during the Annual Shut-in Pressure Test Period for the Morrow zone, ~~Pool~~

(2) 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.