

CASE 6518: McCLELLAN OIL CORPORATION
FOR AN UNORTHODOX GAS WELL LOCATION,
CHAVES COUNTY, NEW MEXICO

CASE NO.

6518

APPLICATION,
TRANSCRIPTS,
SMALL EXHIBITS,
ETC.

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. 6518
Order No. R-5990

APPLICATION OF McCLELLAN OIL
CORPORATION FOR AN UNORTHODOX GAS
WELL LOCATION, CHAVES COUNTY,
NEW MEXICO.

ORDER OF THE DIVISION

BY THE DIVISION:

This cause came on for hearing at 9 a.m. on April 11, 1979, at Santa Fe, New Mexico, before Examiner Daniel S. Nutter.

NOW, on this 25th day of April, 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, McClellan Oil Corporation, seeks approval of an unorthodox gas well location of its Federal Well No. 2 located 2310 feet from the North line and 2310 feet from the East line of Section 11, Township 14 South, Range 28 East, NMPM, Sams Ranch-Grayburg Gas Pool, Chaves County, New Mexico.

(3) That the NE/4 of said Section 11 is to be dedicated to the well.

(4) That a well at said unorthodox location will better enable applicant to produce the gas underlying the proration unit.

(5) That no offset operator objected to the proposed unorthodox location.

-2-
Case No. 6518
Order No. R-5990

(6) That approval of the subject application will afford the applicant the opportunity to produce its just and equitable share of the gas in the subject pool, will prevent the economic loss caused by the drilling of unnecessary wells, avoid the augmentation of risk arising from the drilling of an excessive number of wells, and will otherwise prevent waste and protect correlative rights.

IT IS THEREFORE ORDERED:

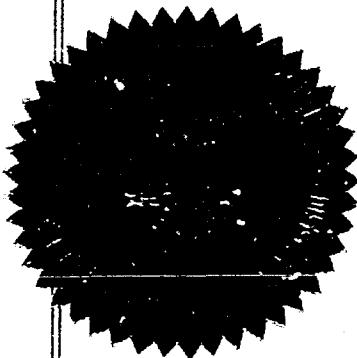
(1) That an unorthodox gas well location for the Grayburg formation is hereby approved for the McClellan Oil Corporation Federal Well No. 2 located 2310 feet from the North line and 2310 feet from the East line of Section 11, Township 14 South, Range 28 East, NMPM, Sams Ranch-Grayburg Gas Pool, Chaves County, New Mexico.

(2) That the NE/4 of said Section 11 shall be dedicated to the above-described well.

(3) 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
JOE D. RAMEY,
Director

dr/

NEW MEXICO OIL CONSERVATION COMMISSION

EXAMINER HEARING

SANTA FE, NEW MEXICO

CS
6518
✓

Hearing Date

APRIL 11, 1979

Time: 9:00 A.M.

NAME	REPRESENTING	LOCATION
Von Kellheim	Kellheim & Kellheim	Santa Fe
Joe J. McClure	McClure Oil Corp.	Laswell
Elly M. Bannan	Adobe Oil & Gas Corp.	Midland TX
David O. Jewell	Adobe Oil & Gas Corp.	Midland, Texas
Bruce R. Gunn	✓ ✓ ✓	✓ ✓
H. J. Taccani	Inexco Oil Company	Houston, Texas
M. L. Feldman	✓ ✓ ✓	✓ ✓
William F. Carr	Campbell & Black, P.A.	Santa Fe
Lee G. Vering	Belco Petroleum Corp.	Houston, Texas
Quinn Fink		
Ernest N. Webb	Webb & Egan, Inc. Petroleum Corp of Texas	Franklin, N.M.

NEW MEXICO OIL CONSERVATION COMMISSION

EXAMINER HEARING

SANTA FE, NEW MEXICO

Hearing Date APRIL 11, 1979 Time: 9:00 A.M.

NAME	REPRESENTING	LOCATION

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION
State Land Office Building
Santa Fe, New Mexico
11 April 1979

EXAMINER HEARING

IN THE MATTER OF:

Application of McClellan Oil Corpora-) CASE
tion for an unorthodox gas well loca-) 6518
tion, Chaves 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:

Lynn Teschendorf, Esq.
Legal Counsel for the Division
State Land Office Bldg.
Santa Fe, New Mexico 87503

For the Applicant:

W. Thomas Kellahin, Esq.
KELLAHIN & KELLAHIN
500 Don Gaspar
Santa Fe, New Mexico 87501

SALLY WALTON BOYD
CERTIFIED SHORTHAND REPORTER
3020 Plaza Blanca (SOS) 471-2462
Santa Fe, New Mexico 87301

I N D E X

JACK L. McCLELLAN

Direct Examination by Mr. Kellahin 3

Cross Examination by Mr. Nutter 9

E X H I B I T S

Applicant Exhibit One, Plat 4

Applicant Exhibit Two, Isopach 5

Applicant Exhibit Three, Cross Section 7

Applicant Exhibit Four, 4-point Test 7

Applicant Exhibit Five, USGS Form 8

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

MR. NUTTER: Call next Case 6518.

MS. TESCHENDORF: Case 6518. Application of McClellan Oil Corporation for an unorthodox gas well location, Chaves County, New Mexico.

MR. KELLAHIN: I'm Tom Kellahin of Santa Fe, New Mexico, appearing on behalf of the applicant, and I have one witness.

(Witness sworn.)

JACK L. McCLELLAN

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

DIRECT EXAMINATION

BY MR. KELLAHIN:

Q. Would you please state your name, your occupation?

A. My name is Jack L. McClellan. I'm the president of McClellan Oil Corporation.

Q. Mr. McClellan, have you previously testified before the Oil Conservation Division?

A. I have.

Q. In what capacity, sir?

A. As a technical witness, as a geologist.

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Santa Fe, New Mexico 87501

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3030 Plaza Blanca (505) 471-2462
Santa Fe, New Mexico 87501

1 Q And you have prepared and submitted an ap-
2 plication in this particular case, have you?

3 A I have.

4 MR. KELLAHIN: We tender Mr. McClellan as
5 an expert geologist.

6 MR. NUTTER: Mr. McClellan is qualified.

7 Q (Mr. Kellahin continuing.) Would you please
8 refer to what we've marked as Exhibit Number One, identify
9 that, and explain what you're seeking?

10 A This is a structural contour map of the
11 area of the Sams Ranch in Chaves County, New Mexico, Town-
12 ship 13 South, Range 28 East.

13 It's depicting -- it's contoured on the top
14 of the Premiere Sand pay. It depicts the structural as-
15 pects of the area.

16 Q What is the spacing unit assigned for this
17 particular well?

18 A 160 acres.

19 Q And where is that located?

20 A The northeast quarter of Section 11, 13
21 South, 28 East.

22 Q There is a red circle on the plat in the
23 northeast quarter of that section. Is that the well loca-
24 tion?

25 A Yes.

SALLY WALTON BOYD
CERTIFIED SHORTHAND REPORTER
3020 Plaza Blanca (666) 471-2462
Santa Fe, New Mexico 87501

1 Q What is the actual footage location for
2 your well?

3 A 2310 from the north line; 2310 from the
4 east line.

5 Q And what would a standard location be for
6 that spacing?

7 A 1980 from the north; 1980 from the east.

8 Q What pool are you in, Mr. McClellan?

9 A This is the Sams Ranch-Grayburg, I believe
10 it's designated.

11 Q All right, sir, would you refer to Exhibit
12 Number Two and identify it?

13 A This is an Isopach map of the productive
14 limits of the Sams Ranch Field, and also an Isopach of the
15 net pay zone of the Premier Sand.

16 Q Would you locate any other wells in Sams
17 Ranch-Grayburg Gas Pool within Section Number 11?

18 A I'm sorry, I don't understand your question.

19 Q What other wells produce from the same form-
20 ation that your subject well will produce?

21 A There are two other producing wells in that
22 section.

23 Q Would you identify them for us?

24 A One is the McClellan Oil Corporation No. 1
25 McClellan Federal in the southeast quarter southwest quarter

1 The other well is the R. L. 4 E, No. 1
2 Com State in the southwest quarter of the southeast quarter
3 of Section 11.

4 Q What acreage is dedicated to the first well?

5 A The southwest quarter is dedicated to the
6 No. 1 Well.

7 Q And the second well is the southeast quarter
8 is dedicated to it?

9 A Yes.

10 Q Your plat indicates a general productive
11 limits trend for this particular section. Do you mean by
12 that exhibit to indicate that any portion of the northeast
13 quarter is not productive from the Grayburg gas zone?

14 A No, sir. We don't have any way of knowing.
15 I think that the northeast quarter is probably productive,
16 due to the pressures that exist in this well, near virgin
17 pressures.

18 Q In your opinion, Mr. McClellan, will ap-
19 proval of the unorthodox location be the best location with-
20 in the northeast quarter from which to drain that particular
21 spacing unit?

22 A Yes, sir.

23 Q Would the unorthodox location be a better
24 location than any standard location within the northeast
25 quarter?

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CERTIFIED COURT REPORTER
2020 Plaza Blanca (GOS) 471-2462
Santa Fe, New Mexico 87501

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

1 A. Yes, sir.

2 Q. Would you turn to Exhibit Number Three and
3 identify that?

4 A. Exhibit Number Three is a cross section
5 prepared from the producing well -- the bottom lefthand
6 corner of that exhibit shows a little map indicating the
7 wells situated in this cross section, starting with the
8 LaRue and Muncy, a producing well, which was a rotary hole
9 extending up to the fossil fuel, which was a dry hole and
10 a cable tool hole, up to the well we're discussing this
11 morning, which was also a cable tool hole, up to the Hansen
12 Bell State, which was a cable tool hole.

13 The reason that the logs on the LaRue and
14 Muncy and the McClellan No. 2 are not exhibited is that
15 the standard procedure out in this area is to set pipe on
16 top and drill in because of pressures involved in these
17 wells and the danger. Therefore this McClellan 1 and 2
18 are the only cable tool wells that penetrated this sand
19 without casing set above, and as a consequence, we couldn't
20 log them, but I've tried to depict here the -- the sands
21 and the various wells encompassed in this cross section.

22 Q. All right, sir. Turn to Exhibit Number
23 Four and identify it.

24 A. Exhibit Number Four is a 4-point back
25 pressure test that was recently taken in this well, indi-

1 cating its productivity and its pressures.

2 Attached to that is the supportive informa-
3 tion, the -- I don't know what you'd call it -- a graph
4 depicting how these pressures and how this absolute open
5 flow was arrived at.

6 Q When did you spud this well, Mr. McClellan?

7 A This well was commenced on January the 21st,
8 1979.

9 Q And when was it completed?

10 A It was ready to produce March the 5th, 1979.

11 Q Are you ready to hook up to any pipeline?

12 A Yes, we're --

13 Q And who is the pipeline purchaser?

14 A The purchaser is El Paso Natural. The --
15 Phillips is transferring the gas for their account.

16 Q Will you refer to Exhibit Number Five and
17 identify it?

18 A Exhibit Number Five is the Form filed with
19 the United States Geological Survey on the completion with
20 the pertinent data on it.

21 Q In your opinion, Mr. McClellan, will approval
22 of this application be in the best interests of conserva-
23 tion, the prevention of waste, and the protection of cor-
24 relative rights?

25 A Yes, sir.

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1 Q And were Exhibits One through Five prepared
2 by you directly or compiled under your direction and super-
3 vision?

4 A Yes.

5 MR. KELLAHIN: We move the introduction of
6 Exhibits One through Five.

7 MR. NUTTER: Applicant's Exhibits One
8 through Five will be admitted in evidence.

9 Are there any questions of the witness?

10
11 CROSS EXAMINATION

12 BY MR. NUTTER:

13 Q Mr. McClellan, I notice on a couple of
14 your exhibits that there's a circle immediately west of
15 the subject well. What is that?

16 A Well, that was taken off my work map. We
17 were considering -- that was just a mark I'd made on there.
18 There's no location there.

19 Q You're not going to drill a well there?

20 A No, at least not right now, unless we have
21 some further indication.

22 MR. KELLAHIN: You control the acreage on
23 the northwest quarter?

24 A Yes, I do control the acreage. I own it.

25 Q Now you mentioned that the well in the

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1 southeast quarter was owned by 4 E, or someone?

2 A. Yes. It's R. L. 4 E out of Dallas, is the
3 operator.

4 Q And they have 160-acres, being the south-
5 east quarter of Section 11, dedicated to that well?

6 A. Yes.

7 MR. NUTTER: Are there any other questions
8 of Mr. McClellan? He may be excused.

9 Do you have anything further, Mr. Kellahin?

10 MR. KELLAHIN: No, sir.

11 MR. NUTTER: Does anyone have anything they
12 wish to offer in Case Number 6518?

13 We'll take the case under advisement.

14 (Hearing concluded.)
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REPORTER'S CERTIFICATE

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

Sally W. Boyd
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. 6518, heard by me on 4/11 1979.
[Signature], Examiner
Oil Conservation Division

SALLY WALTON BOYD
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Santa Fe, New Mexico 87501

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION
State Land Office Building
Santa Fe, New Mexico
11 April 1979

EXAMINER HEARING

IN THE MATTER OF:

Application of McClellan Oil Corpora-)
tion for an unorthodox gas well loca-)
tion, Chaves County, New Mexico.)

CASE
6518

BEFORE: Daniel S. Nutter

TRANSCRIPT OF HEARING

A P P E A R A N C E S

For the Oil Conservation
Division:

Lynn Teschendorf, Esq.
Legal Counsel for the Division
State Land Office Bldg.
Santa Fe, New Mexico 87503

For the Applicant:

W. Thomas Kellahin, Esq.
KELLAHIN & KELLAHIN
500 Don Gaspar
Santa Fe, New Mexico 87501

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I N D E X

JACK L. McCLELLIAN

Direct Examination by Mr. Kellahin 3

Cross Examination by Mr. Nutter 9

E X H I B I T S

Applicant Exhibit One, Plat 4

Applicant Exhibit Two, Isopach 5

Applicant Exhibit Three, Cross Section 7

Applicant Exhibit Four, 4-point Test 7

Applicant Exhibit Five, USGS Form 8

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3010 Plaza Blanca (SOS) 471-2452
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1 MR. NUTTER: Call next Case 6513.

2 AS THE CHAIRMAN: Case 6512. Application of
3 McClellan Oil Corporation for an unorthodox gas well loca-
4 tion, Chaves County, New Mexico.

5 MR. KELLAHIN: I'm Tom Kellahin of Santa Fe,
6 New Mexico, appearing on behalf of the applicant, and I
7 have one witness.

8
9 (Witness sworn.)

10
11 JACK L. McCLELLAN
12 being called as a witness and having been duly sworn upon
13 his oath, testified as follows, to-wit:

14
15 DIRECT EXAMINATION

16 BY MR. KELLAHIN:

17 Q Would you please state your name, your oc-
18 cupation?

19 A My name is Jack L. McClellan. I'm the
20 president of McClellan Oil Corporation.

21 Q Mr. McClellan, have you previously testified
22 before the Oil Conservation Division?

23 A I have.

24 Q In what capacity, sir?

25 A As a technical witness, as a geologist.

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CERTIFIED SHORTHAND REPORTER
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Santa Fe, New Mexico 87501

1 Q And you have prepared and submitted an ap-
2 plication in this particular case, have you?
3 A Yes.
4 MR. KELLAHIN: We tender Mr. McClellan as
5 an expert geologist.
6 MR. HUTTER: Mr. McClellan is qualified.
7 Q (Mr. Kellahin continuing.) Would you please
8 refer to what we've marked as Exhibit Number One, identify
9 that, and explain what you're seeking?
10 A This is a structural contour map of the
11 area of the Sams Ranch in Chaves County, New Mexico, Town-
12 ship 13 South, Range 28 East.
13 It's depicting -- it's contoured on the top
14 of the Premiere Sand pay. It depicts the structural as-
15 pects of the area.
16 Q What is the spacing unit assigned for this
17 particular well?
18 A 160 acres.
19 Q And where is that located?
20 A The northeast quarter of Section 11, 13
21 South, 28 East.
22 Q There is a red circle on the plat in the
23 northeast quarter of that section. Is that the well loca-
24 tion?
25 A Yes.

SALLY WALTON BOYD
CERTIFIED SHORTHAND REPORTER
3020 Plaza Blanca (605) 471-2462
Santa Fe, New Mexico 87501

1 Q What is the actual footage location for
2 your well?
3 A 2310 from the north line; 2310 from the
4 east line.
5 Q And what would a standard location be for
6 that spacing?
7 A 1900 from the north; 1900 from the east.
8 Q What pool are you in, Mr. McClellan?
9 A This is the Sams Ranch-Grayburg, I believe
10 it's designated.
11 Q All right, sir, would you refer to Exhibit
12 Number Two and identify it?
13 A This is an Isopach map of the productive
14 limits of the Sams Ranch Field, and also an Isopach of the
15 net pay zone of the Premier Sand.
16 Q Would you locate any other wells in Sams
17 Ranch-Grayburg Gas Pool within Section Number 11?
18 A I'm sorry, I don't understand your question.
19 Q What other wells produce from the same form-
20 ation that your subject well will produce?
21 A There are two other producing wells in that
22 section.
23 Q Would you identify them for us?
24 A One is the McClellan Oil Corporation No. 1
25 McClellan Federal in the southeast quarter southwest quarter.

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Santa Fe, New Mexico 87501

1 The other well is the R. L. 4 E, No. 1
2 Com State in the southwest quarter of the southeast quarter
3 of Section 11.

4 Q What acreage is dedicated to the first well?

5 A The southwest quarter is dedicated to the
6 No. 1 Well.

7 Q And the second well is the southeast quarter
8 is dedicated to it?

9 A Yes.

10 Q Your plat indicates a general productive
11 limits trend for this particular section. Do you mean by
12 that exhibit to indicate that any portion of the northeast
13 quarter is not productive from the Grayburg gas zone?

14 A No, sir. We don't have any way of knowing.
15 I think that the northeast quarter is probably productive,
16 due to the pressures that exist in this well, near virgin
17 pressures.

18 Q In your opinion, Mr. McClellan, will ap-
19 proval of the unorthodox location be the best location with-
20 in the northeast quarter from which to drain that particular
21 spacing unit?

22 A Yes, sir.

23 Q Would the unorthodox location be a better
24 location than any standard location within the northeast
25 quarter?

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1 A Yes, sir.

2 Q Would you turn to Exhibit Number Three and
3 identify that?

4 A Exhibit Number Three is a cross section
5 prepared from the producing well -- the bottom lefthand
6 corner of that exhibit shows a little map indicating the
7 wells situated in this cross section, starting with the
8 LaRue and Muncy, a producing well, which was a rotary hole
9 extending up to the fossil fuel, which was a dry hole and
10 a cable tool hole, up to the well we're discussing this
11 morning, which was also a cable tool hole, up to the Hansen
12 Bell State, which was a cable tool hole.

13 The reason that the logs on the LaRue and
14 Muncy and the McClellan No. 2 are not exhibited is that
15 the standard procedure out in this area is to set pipe on
16 top and drill in because of pressures involved in these
17 wells and the danger. Therefore this McClellan 1 and 2
18 are the only cable tool wells that penetrated this sand
19 without casing set above, and as a consequence, we couldn't
20 log them, but I've tried to depict here the -- the sands
21 and the various wells encompassed in this cross section.

22 Q All right, sir. Turn to Exhibit Number
23 Four and identify it.

24 A Exhibit Number Four is a 4-point back
25 pressure test that was recently taken in this well, indi-

1 cating its productivity and its pressures.

2 Attached to that is the supportive informa-
3 tion, the -- I don't know what you'd call it -- a graph
4 depicting how these pressures and how this absolute open
5 flow was arrived at.

6 Q When did you spud this well, Mr. McClellan?

7 A This well was commenced on January the 21st,
8 1979.

9 Q And when was it completed?

10 A It was ready to produce March the 5th, 1979.

11 Q Are you ready to hook up to any pipeline?

12 A Yes, we're --

13 Q And who is the pipeline purchaser?

14 A The purchaser is El Paso Natural. The --
15 Phillips is transferring the gas for their account.

16 Q Will you refer to Exhibit Number Five and
17 identify it?

18 A Exhibit Number Five is the Form filed with
19 the United States Geological Survey on the completion with
20 the pertinent data on it.

21 Q In your opinion, Mr. McClellan, will approval
22 of this application be in the best interests of conserva-
23 tion, the prevention of waste, and the protection of cor-
24 relative rights?

25 A Yes, sir.

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CERTIFIED SHORTHAND REPORTER
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Santa Fe, New Mexico 87501

1 Q And were Exhibits One through Five prepared
2 by you directly or compiled under your direction and super-
3 vision?

4 A Yes.

5 MR. KELLAHIN: We move the introduction of
6 Exhibits One through Five.

7 MR. NUTTER: Applicant's Exhibits One
8 through Five will be admitted in evidence.

9 Are there any questions of the witness?

10 CROSS EXAMINATION

11 BY MR. NUTTER:

12 Q Mr. McClellan, I notice on a couple of
13 your exhibits that there's a circle immediately west of
14 the subject well. What is that?

15 A Well, that was taken off my work map. We
16 were considering --- that was just a mark I'd made on there.
17 There's no location there.

18 Q You're not going to drill a well there?

19 A No, at least not right now, unless we have
20 some further indication.

21 MR. KELLAHIN: You control the acreage on
22 the northwest quarter?

23 A Yes, I do control the acreage. I own it.

24 Q Now you mentioned that the well in the
25

1 southeast quarter was owned by / E, or someone?

2 A. Yes. It's R. L. A. out of Dallas, is the
3 operator.

4 Q And they have 160-acres, being the south-
5 east quarter of Section 11, dedicated to that well?

6 A. Yes.

7 MR. NUTTER: Are there any other questions
8 of Mr. McClellan? He may be excused.

9 Do you have anything further, Mr. Kellahin?

10 MR. KELLAHIN: No, sir.

11 MR. NUTTER: Does anyone have anything they
12 wish to offer in Case Number 6518?

13 We'll take the case under advisement.

14 (Hearing concluded.)
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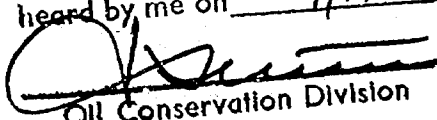
SALLY WALTON BOYD
CERTIFIED SHORTHAND REPORTER
3030 Plaza Blanca (SOS) 471-2462
San Antonio, New Mexico 57501

REPORTER'S CERTIFICATE

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

Sally W. Boyd, C.S.R.

I do hereby certify that the foregoing is a complete record of the proceedings in the Examiner hearing of Case No. 6518, heard by me on 4/11 1979.

 Examiner
Oil Conservation Division

SALLY WALTON BOYD
CERTIFIED SHORTHAND REPORTER
3050 Plaza Blanca (505) 471-2462
Santa Fe, New Mexico 87501

DOCKET No. 14-79
CASE No. 6518

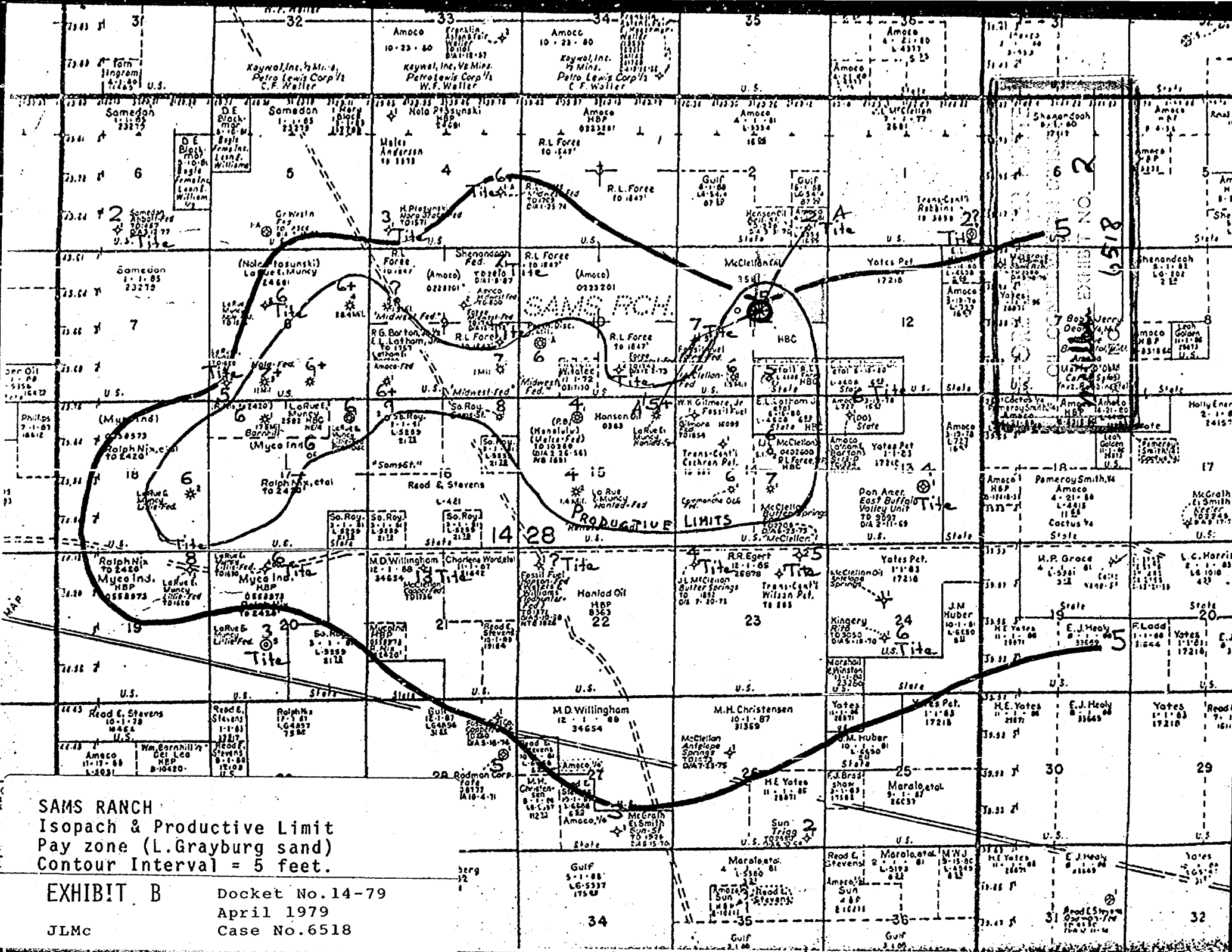
McCLELLAN OIL CORP.
SAMS RANCH AREA

BEFORE EXAMINER NUTTER

OIL CONSERVATION DIVISION

McClellan EXHIBIT NO. X

CASE NO. 6518



SAMS RANCH
Isopach & Productive Limit
Pay zone (L.Grayburg sand)
Contour Interval = 5 feet.

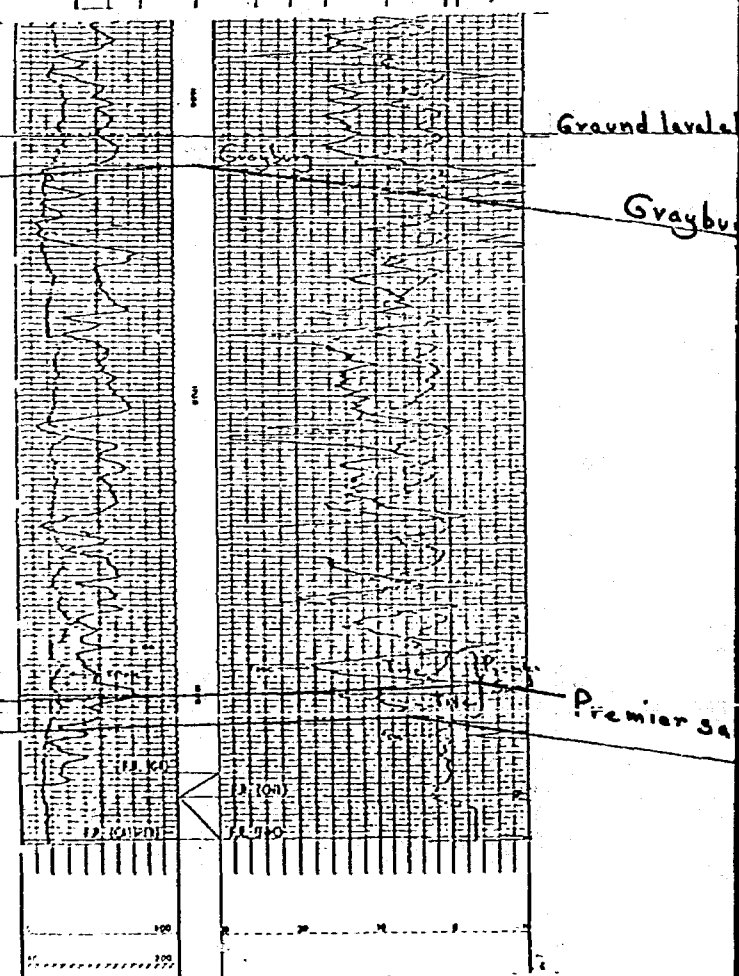
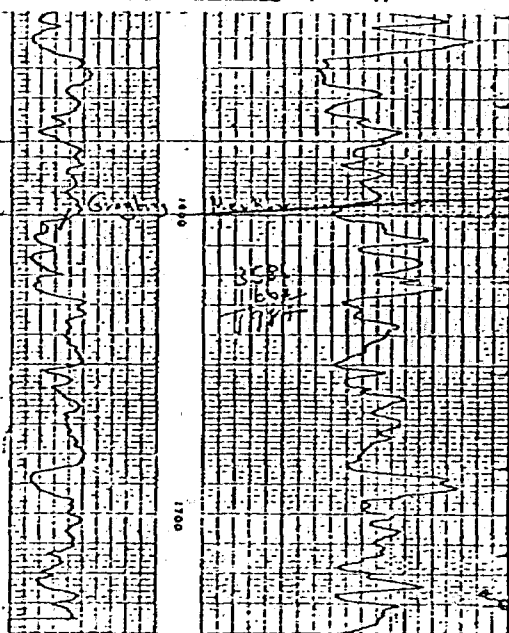
EXHIBIT B Docket No. 14-79
JLMc April 1979
 Case No. 6518

Sams Ranch
M⁵ Clellan Oil Cov
No. 2 M⁵ Clellan
Cross Section A

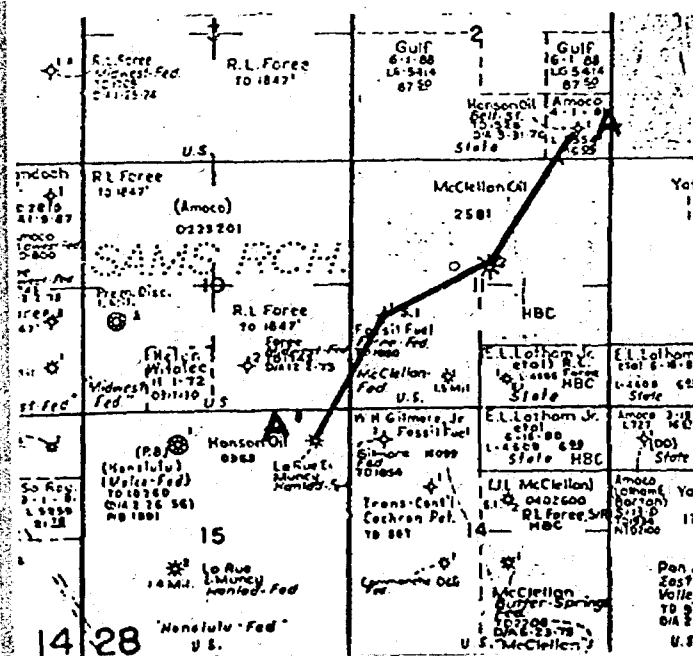
A'

[illegible]

CANDIDATE FORM FALL 1981	
COUNTY: <u>CHAMBERLAIN</u>	
FIELD NO. <u>100</u> SAM'S NAME <u>JOHN J. BROWN</u> COUNTY <u>CHAMBERLAIN</u>	COMPANY <u>JOHN J. BROWN INCORPORATED</u> TITLE <u>FEDERAL #22-1</u> FIELD <u>SAM'S BROWN</u> COUNTY <u>CHAMBERLAIN</u> STATE <u>NEBRASKA</u> Location <u>9500' #51 & 640' FWL</u> Jan. 11 - Jan 15-81 Exp. <u>22-1</u>
Other Services <u>NONE</u>	
Permanent Deposit <u>1.00</u> (Min. 35%) Fee Returned From <u>0.00</u> (A. Above From Deposit) Deducted (Returned From <u>0.00</u>)	
Fee: <u>1.00</u> C.R. <u>35%</u> <u>CL 35%</u>	
Name <u>JOHN J. BROWN</u> Address <u>1000 S. 10th St.</u> City <u>Lincoln</u> State <u>NE</u> Zip <u>68502</u> Phone <u>462-1234</u> Education <u>High School</u> Occupation <u>Engineer</u> Other <u>None</u> Date of Birth <u>11/11/45</u> Social Security <u>123-45-6789</u> Signature <u>[Signature]</u>	Date <u>11-18-81</u> Name <u>JOHN J. BROWN</u> Address <u>1000 S. 10th St.</u> City <u>Lincoln</u> State <u>NE</u> Zip <u>68502</u> Phone <u>462-1234</u> Education <u>High School</u> Occupation <u>Engineer</u> Other <u>None</u> Date of Birth <u>11/11/45</u> Social Security <u>123-45-6789</u> Signature <u>[Signature]</u>
Date <u>11-18-81</u>	
Name <u>JOHN J. BROWN</u>	
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Zip <u>68502</u>	
Phone <u>462-1234</u>	
Education <u>High School</u>	
Occupation <u>Engineer</u>	
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Date of Birth <u>11/11/45</u>	
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Other <u>None</u>	
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Social Security <u>123-45-6789</u>	
Signature <u>[Signature]</u>	
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State <u>NE</u>	
Zip <u>68502</u>	
Phone <u>462-1234</u>	
Education <u>High School</u>	
Occupation <u>Engineer</u>	
Other <u>None</u>	
Date of Birth <u>11/11/45</u>	



Rotary
I.P. Open hole 470 HCF



Cable Tool
Dry Hole

EXHIBIT "C"
Docket No. 14-79
Case No. 6518

A

[illegible]

1600
 1650
 Gravelly 1650
 1650
 1650
 4 1/2' clay. 1711'
 Pay 1870-30
 T.D. 1850

Cable Tool
I.P. 338 MCF Open Hole

Cable Tool
Dry Hole

EXHIBIT D

NEW MEXICO OIL CONSERVATION COMMISSION
MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELLForm C-122
Revised 9-1-65Docket No. 14-79
Case No. 6518

BEFORE EXAMINER MUTTER

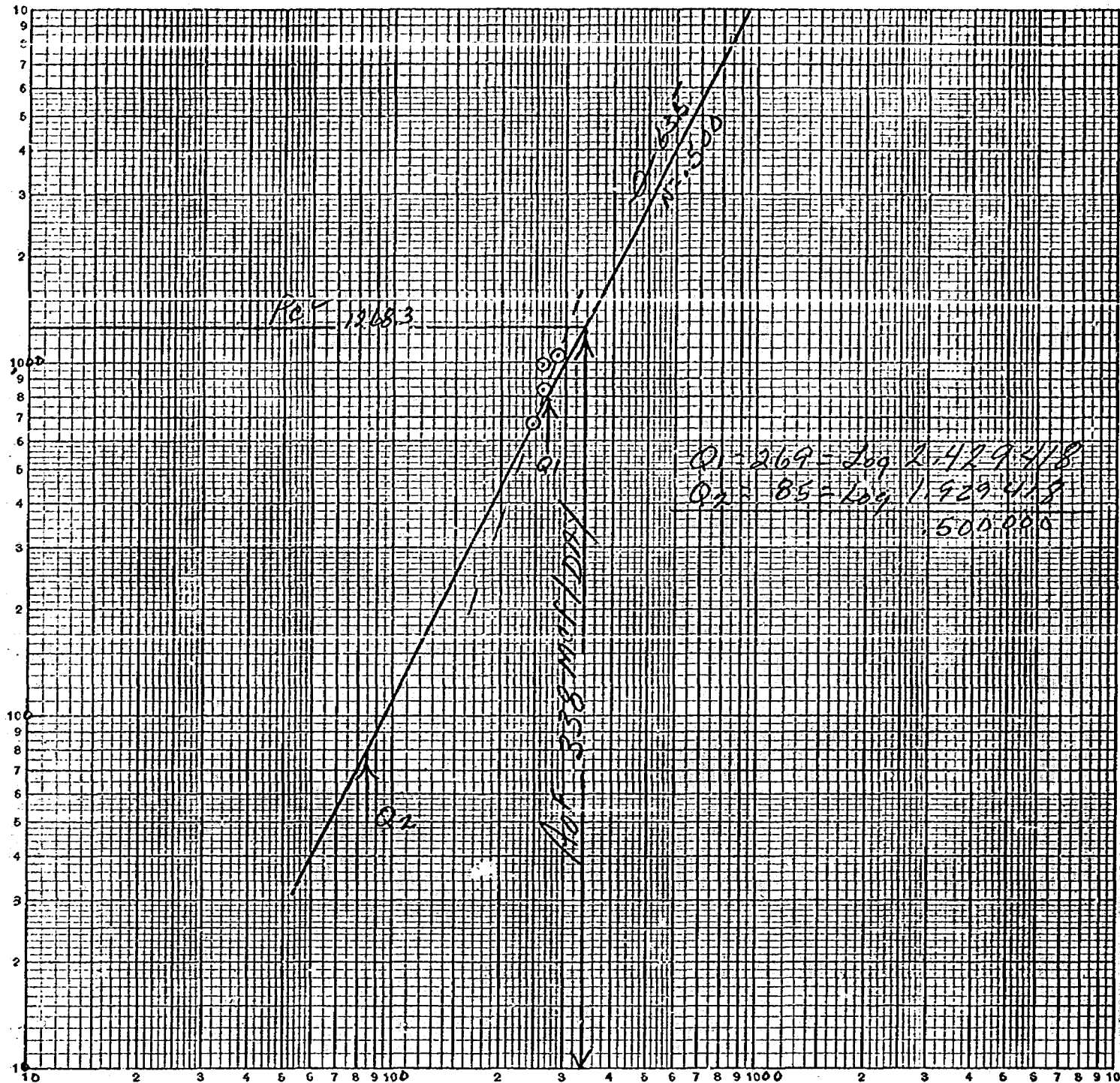
Type Test ☒ Initial ☐ Annual		Oil Conservation Division Test Date 3-26-79 NO. 4		SPUD Date: 1-21-79	
Company McClellan Oil Company		Connection To Air		CASE NO. 6518	
Pool Sams Ranch		Formation Grayburg		Unit G	
Completion Date		Total Depth 1850		Plug Back TD	
Elevation		Farm or Lease Name McClellan Federal		Well No. 2	
Csg. Size 4 1/2	Wt. d	Set At 1798	Perforations: From open To hole		Unit Sec. Twp. Rge. G 11 14 28
Tbg. Size 2 3/8	Wt. d	Set At 1811	Perforations: From open To end		
Type Well - Single - Brdenhead - G.G. or G.O. Multiple Single			Packer Set At None		County Chaves
Producing Thru Tbg.		Reservoir Temp. °F A		Mean Annual Temp. °F 13.2	
Baro. Press. - P _a 13.2		State New Mexico		Postive Choke	
L	H	Gg .733	% CO ₂ Nil	% N ₂ 24.5	% H ₂ S Nil
FLOW DATA			TUBING DATA		CASING DATA
NO.	Prover Line Size	X	Orifice Size	Press. p.s.i.g.	Diff. h _w
SI	6" Positive Choke				
1.	8/64		760	71	760
2.	9/64		638	72	637
3.	10/64		511	72	510
4.	11/64		460	72	458
5.					
RATE OF FLOW CALCULATIONS					
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor Ft.	Gravity Factor F _g
1.	.2618		773.2	.9896	1.168
2.	.3346		651.2	.9887	1.168
3.	.4173		524.2	.9887	1.168
4.	.5090		473.2	.9887	1.168
5.					
NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio Mcf/bbl.
1.	1.23	531	1.59	.904	A.P.I. Gravity of Liquid Hydrocarbons
2.	1.04	532	1.60	.921	Specific Gravity Separator Gas
3.	.84	532	1.60	.936	Specific Gravity Flowing Fluid
4.	.75	532	1.60	.942	Critical Pressure
5.					Critical Temperature
P _c 1126.2 P _c ² 1268.3					
NO.	P _i ²	P _w	P _w ²	P _c ² - P _w ²	(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.892$
1		773.2	597.8	670.5	(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.375$
2		650.2	422.8	845.5	
3		523.2	273.7	994.6	
4		471.2	222.0	1046.3	
5					
Absolute Open Flow 338 Mcfd @ 15.025 Angle of Slope 63.5 Slope, n .500					
Remarks:					
Approved By Commission:		Conducted By: Marshall Morris		Calculated By: R. Reston El Paso Natural Gas Co.	

McClellan Oil Company

McClellan Federal No. 2
G-11-14-28
Chaves County, New Mexico
March 26, 1979

$P_2 - P_w^2$ IN THSD

LOGARITHMIC 46 7400
3 X 3 CYCLES
MADE IN U.S.A.
KRUPP & ESSER CO.



Q=MCF/DAY

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN DUPLICATE*

(See other in-
structions on
reverse side)Form approved.
Budget Bureau No. 42-R355.6.

WELL COMPLETION OR RECOMPLETION REPORT AND LOG*

1a. TYPE OF WELL: OIL WELL ☐ GAS WELL ☒ DRY ☐ Other ☐		5. LEASE DESIGNATION AND SERIAL NO. NM-2581	
b. TYPE OF COMPLETION: NEW WELL ☒ WORK OVER ☐ DEEP-EN ☐ PLUG-BACK ☐ DIFF. RESVR. ☐ Other ☐		6. IF INDIAN, ALLOTTEE, OR TRIBE NAME	
2. NAME OF OPERATOR McClellan Oil Corporation		7. UNIT AGREEMENT NAME	
3. ADDRESS OF OPERATOR P. O. Box 848, Roswell, New Mexico 88201		8. FARM OR LEASE NAME McClellan Federal	
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)* At surface At top prod. interval reported below At total depth 2310 FNL & 2310 FEL		9. WELL NO. 2	
14. PERMIT NO.		15. DATE ISSUED	
10. DATE SPUDDED 1/21/79		11. DATE T.D. REACHED 3/4/79	
12. DATE COMPL. (Ready to prod.) 3/5/79		13. ELEVATIONS (OF, RKB, RT, OR, ETC.) 3003 U.L.	
16. TOTAL DEPTH, MD & TVD 1850		17. PLUG, BACK T.D., MD & TVD 1850	
18. IF MULTIPLE COMPL. HOW MANY?		19. INTERVALS DRILLED BY	
20. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (SID AND TVD)* 1820-29		21. WAS DIRECTIONAL SURVEY MADE No	
22. TYPE ELECTRIC AND OTHER LOGS RUN None - (See attached Sample log)		23. WAS WELL CORED No	
24. CASING RECORD (Report all strings set in well)		25. TUBING RECORD	
26. PERFORATION RECORD (Interval, size and number)		27. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.	
28. PRODUCTION		29. TEST WITNESSED BY	
30. LIST OF ATTACHMENTS		31. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records	

SIGNED Joe J. McClallan TITLE Operator DATE 4/6/79

*(See Instructions and Spaces for Additional Data on Reverse Side)

INSTRUCTIONS

General: This form is designed for submitting a complete and correct well completion report and log on all types of lands and leases to either a Federal agency or a State agency, or both, pursuant to applicable Federal and/or State laws and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from, the local Federal and/or State office. See instructions on items 22 and 24, and 38, below regarding separate reports for separate completions. If not filed prior to the time this summary record is submitted, copies of all currently available logs (drillers, geologists, sample and core analysis, all types electric, etc.), formation and pressure tests, and directional surveys, should be attached hereto to the extent required by applicable Federal and/or State laws and regulations. All attachments should be listed on this form, see item 38.

Item 4: If there are no applicable State requirements, locations on Federal or Indian land should be described in accordance with Federal requirements. Consult local State or Federal office for specific instructions.

Item 18: Indicate which elevation is used as reference (where not otherwise shown) for depth measurements given in other spaces on this form and in any attachments.
Items 22 and 24: If this well is completed for separate production from more than one interval zone (multiple completion), so state in Item 22, and in Item 24 show the producing

interval, or intervals, top(s), bottom(s), and name(s) (if any) for only the interval reported in Item 33. Submit a separate report (page) on this form, adequately identified, for each additional interval to be separately produced, showing the additional data pertinent to such interval.

Item 29: "Sacks Cement": Attached supplemental records for this well should show the details of any multiple stage cementing and the location of the cementing tool.
Item 33: Submit a separate completion report on this form for each interval to be separately produced. (See instruction for items 22 and 24 above.)

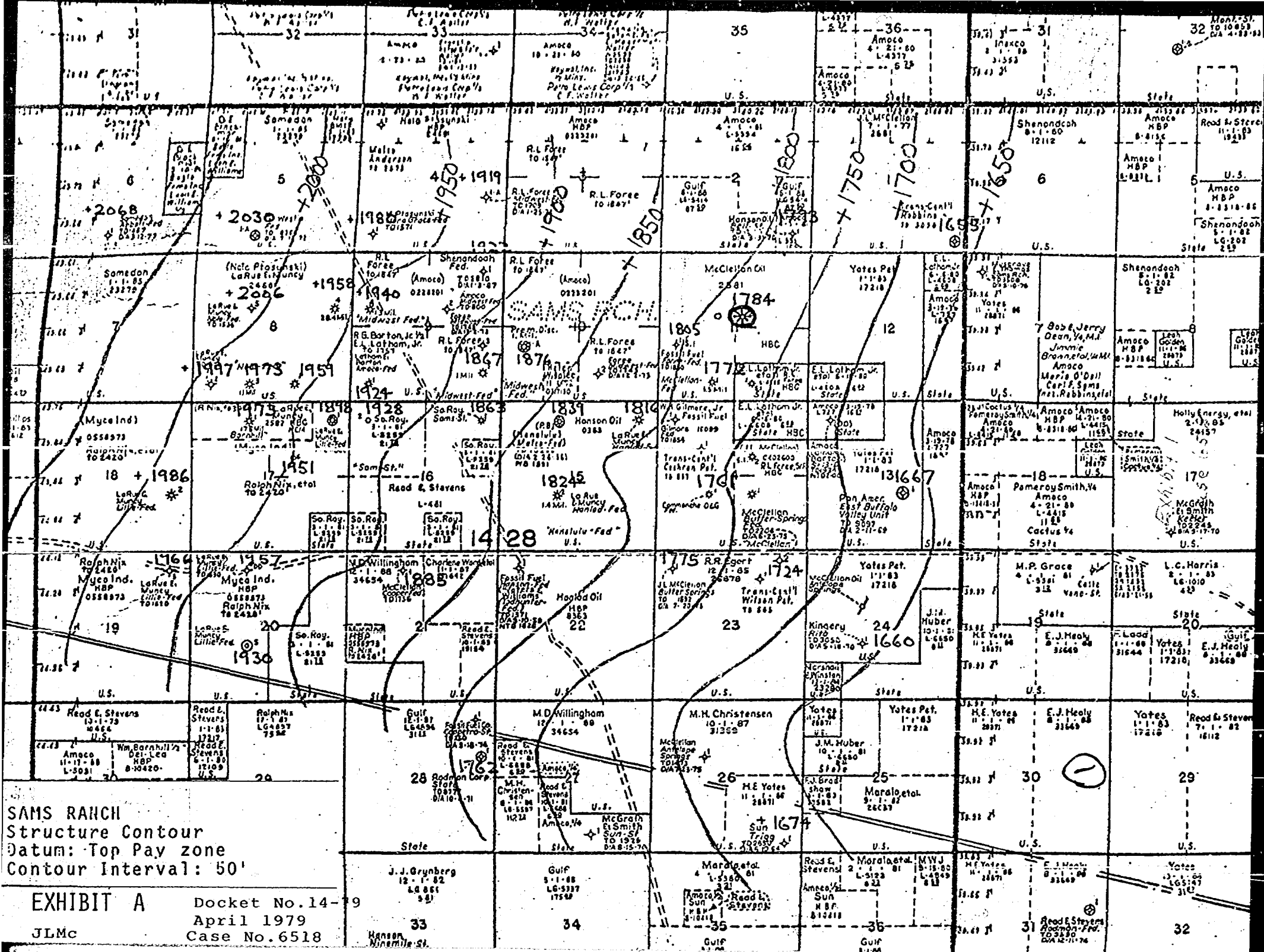
[illegible]

37. SUMMARY OF POROUS ZONES: SHOW ALL IMPORTANT ZONES OF POROSITY AND CONTENTS THEREOF, CORED INTERVALS, AND ALL DRILL-STEM TESTS, INCLUDING DEPTH INTERVAL TESTED, CUSHION USED, TIME TOOL OPEN, FLOWING AND SHUT-IN PRESSURES, AND RECOVERIES										38. GEOLOGIC MARKERS	
FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.							NAME	TOP
Queen	1235	1245	Water, slight show of oil							Yates ?	511
Premier sd.	1820	1829	Gas							Queen	1235
										Grayburg	1540
										Premier sd.	1818
ONE - (265 attached sample 104) ONE - (265 attached sample 104) ONE - (265 attached sample 104)										0 Box 343, Roswell, New Mexico 38501	

0-9
10-19

DOCKET No. 14-79
CASE No. 6518

McCLELLAN OIL CORP.
SAMS RANCH AREA



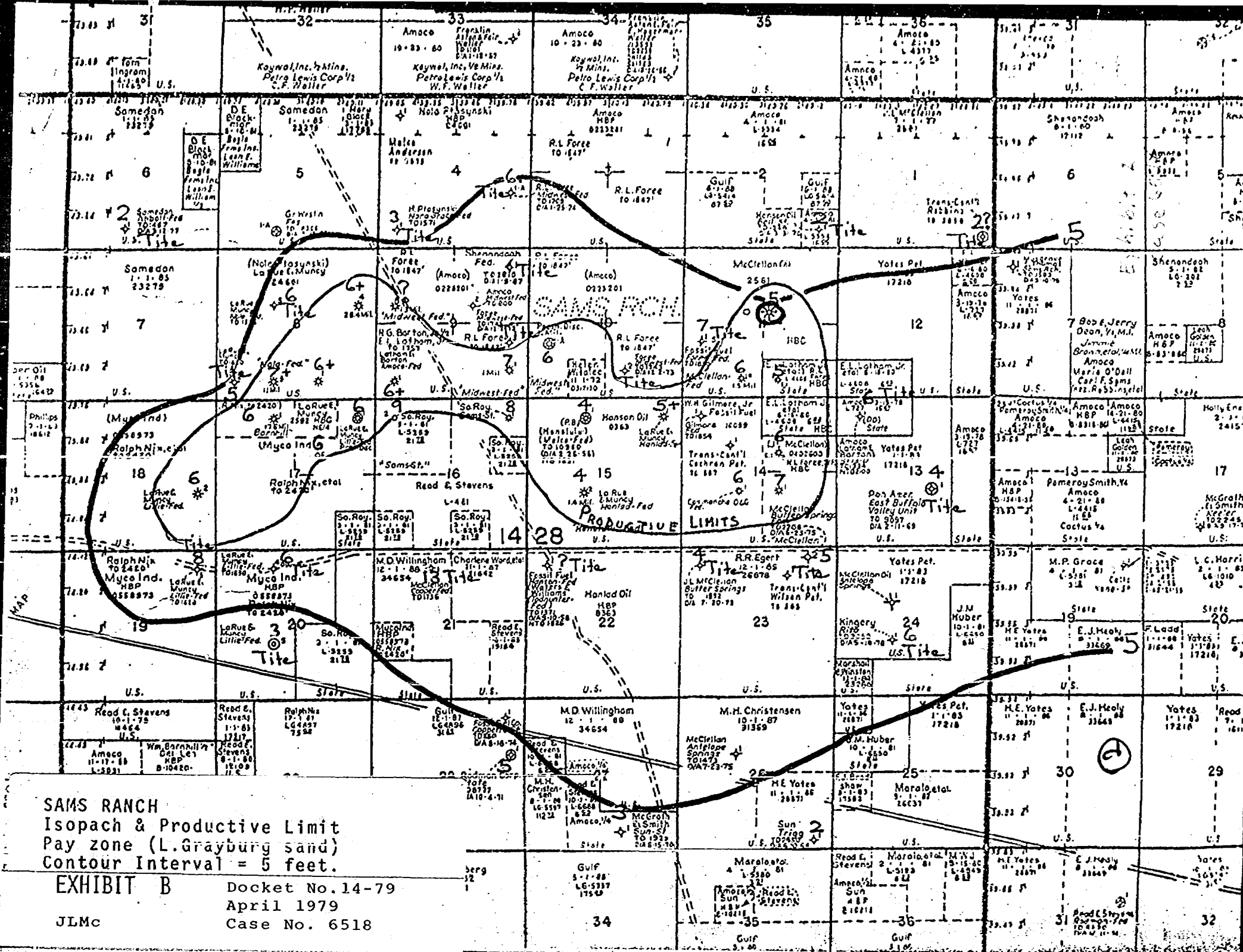


EXHIBIT D

NEW MEXICO OIL CONSERVATION COMMISSION
MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELLForm C-122
Revised 9-1-65Docket No. 14-79
Case No. 6518

Type Test ☒ Initial ☐ Annual ☐ Special			Test Date 3-26-79		SPUD Date: 1-21-79	
Company McClellan Oil Company			Connection To Air			
Pool Sams Ranch			Formation Crawburg		Unit C	
Completion Date		Total Depth 1850	Plug Back TD		Elevation	
Form or Lease Name McClellan Federal						
Csg. Size 4 1/2	Wt.	d	Sol At 1798	Perforations: From open To hole		Well No. 2
Tbg. Size 2 3/8	Wt.	d	Sol At 1811	Perforations: From open To end		Unit Sec. Twp. Rge. G 11 14 28
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single			Packer Set At None		County Chaves	
Producing Thru Tbg.		Reservoir Temp. °F A	Mean Annual Temp. °F		Baro. Press. - P _a 13.2	
L		H	Ga	% CO ₂ Nil	% N ₂ 24.5	% H ₂ S Nil
		.733	Prover 6" Positive Choke		Water Run Tape	
FLOW DATA			TUBING DATA		CASING DATA	
NO.	Prover Line Size	X	Orifice Size	Press. p.s.i.g.	Diff. h _w	Temp. °F
SI	6" Positive Choke					
1.	8/64		260		71	760
2.	9/64		638		72	638
3.	10/64		511		72	511
4.	11/64		460		72	460
5.						
RATE OF FLOW CALCULATIONS						
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor F _t	Gravity Factor F _g	Super Compress. Factor F _{pv}
1	.2618		723.2	.9896	1.168	1.052
2	.3346		651.2	.9887	1.168	1.042
3	.4173		524.2	.9887	1.168	1.034
4	.5090		473.2	.9887	1.168	1.030
5						
NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio _____ Mcf/bbl.	
1	1.23	531	1.59	.904	A.P.I. Gravity of Liquid Hydrocarbons _____ Deg.	
2	1.04	532	1.60	.921	Specific Gravity Separator Gas _____ XXXXXXXXXX	
3	.84	532	1.60	.936	Specific Gravity Flowing Fluid _____ XXXXX	
4	.75	532	1.60	.942	Critical Pressure _____ P.S.I.A.	
5					Critical Temperature _____ °R	
P _c 1126.2 P _c ² 1268.3						
NO.	P _r ²	P _w	P _w ²	P _c ² - P _w ²	(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.892$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.375$	
1		723.2	597.8	670.5		
2		650.2	422.8	845.5		
3		523.2	273.7	994.6		
4		471.2	222.0	1046.3		
5						
Absolute Open Flow 338 Mcfd @ 15.025 Angle of Slope 63.5 Slope, n .500						
Remarks:						
Approved By Commission: Conducted By: Marshall Morris Calculated By: R. Reston Checked By: El Paso Natural Gas Co.						

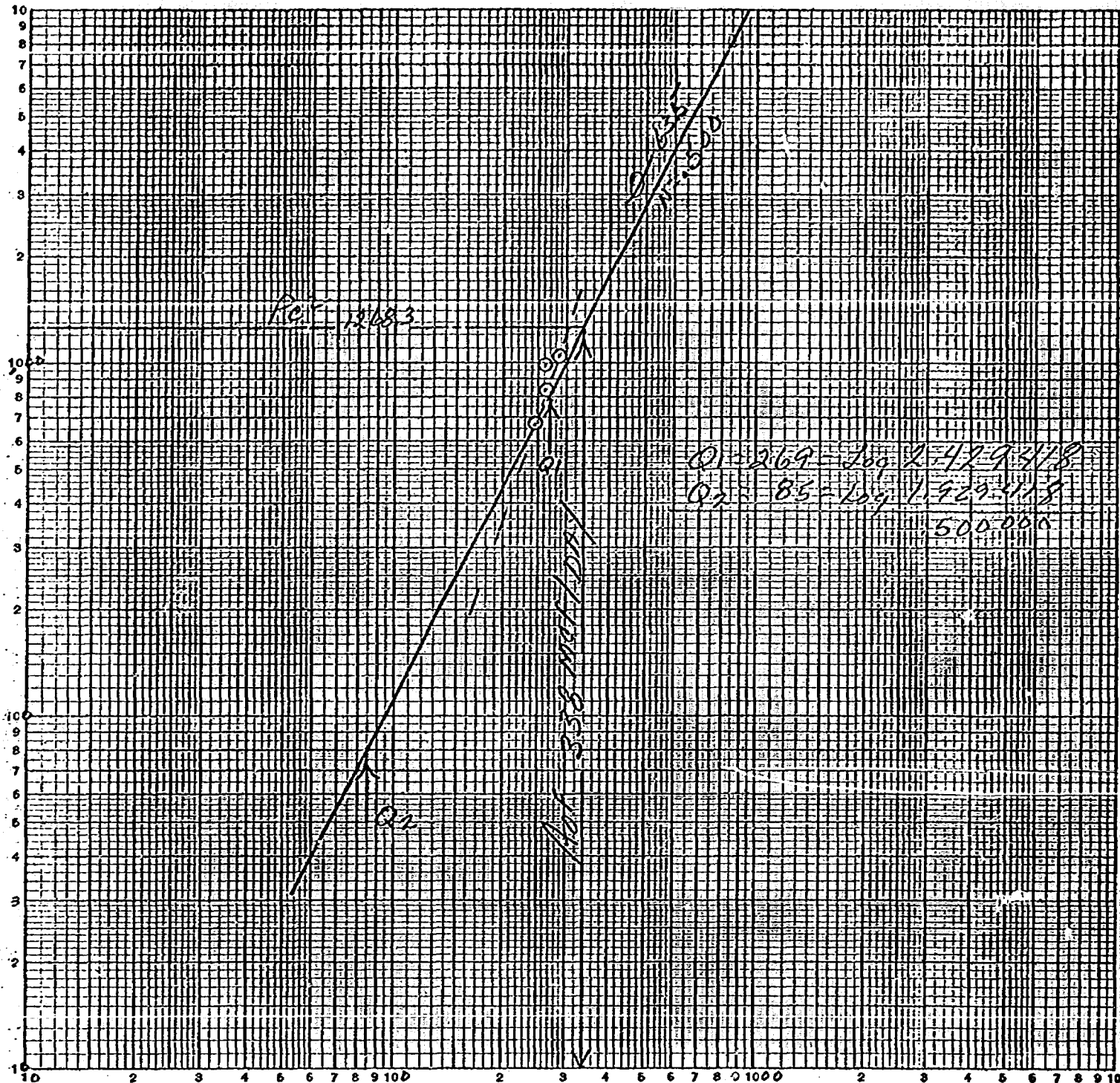
Exhibit 4
Case 6518

McClellan Oil Company

McClellan Federal No. 2
G-11-14-28
Chaves County, New Mexico
March 26, 1979

Dr. Pw² IN THSND

KE LOGARITHMIC 467400
3 X 3 CYCLES
MADE IN U.S.A.
KEUFFEL & ESSER CO.



Q=MCF/DAY

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN DUPLICATE*

(See other in-
structions on
reverse side)Form approved
Budget Bureau No. 42-R355.6.

WELL COMPLETION OR RECOMPLETION REPORT AND LOG *

1a. TYPE OF WELL: OIL WELL ☐ GAS WELL ☒ DRY ☐ Other ☐		5. LEASE DESIGNATION AND SERIAL NO. NM-2581																									
b. TYPE OF COMPLETION: NEW WELL ☒ WORK OVER ☐ DEEP-EN ☐ PLUG-BACK ☐ DIFF. RESVR. ☐ Other ☐		6. IF INDIAN, ALLOTTEE, OR TRIBE NAME																									
2. NAME OF OPERATOR McClellan Oil Corporation		7. UNIT AGREEMENT NAME																									
3. ADDRESS OF OPERATOR P. O. Box 848, Roswell, New Mexico 88201		8. FARM OR LEASE NAME McClellan Federal																									
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)* At surface At top prod. interval reported below At total depth 2310 FNL & 2310 FEL		9. FIELD AND POOL, OR WILDCAT Sams Ranch																									
14. PERMIT NO.		10. SEC. T. R. M. OR BLOCK AND SURVEY OR AREA Sec. 11, T14S, R28E																									
15. DATE SPUDDED 1/21/79		11. COUNTY OR PARISH Chaves																									
16. DATE T.D. REACHED 3/4/79		12. STATE N.M.																									
17. DATE COMPL. (Ready to prod.) 3/5/79		13. ELEV. CASING HEAD 3603 G.L.																									
18. ELEVATIONS (DF, RKB, RT, CR, ETC.)		14. ELEV. CASING HEAD																									
20. TOTAL DEPTH, MD & TVD 1850		15. ROTARY TOOLS 0-1850																									
21. PLUG, BACK T.D., MD & TVD 1850		16. CABLE TOOLS																									
22. IF MULTIPLE COMPL. HOW MANY?		17. WAS DIRECTIONAL SURVEY MADE No																									
23. INTERVALS DRILLED BY		18. WAS WELL CORED No																									
24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)* 1820-29		19. WAS WELL CORED																									
25. TYPE ELECTRIC AND OTHER LOGS RUN None - (See attached Sample log)		20. WAS WELL CORED																									
26. CASING RECORD (Report all strings set in well)																											
<table border="1"><thead><tr><th>CASING SIZE</th><th>WEIGHT, LB./FT.</th><th>DEPTH SET (MD)</th><th>MOLE SIZE</th><th>CEMENTING RECORD</th><th>AMOUNT PULLED</th></tr></thead><tbody><tr><td>8 5/8"</td><td>23 lb.</td><td>323</td><td>10"</td><td>150 sx</td><td>None</td></tr><tr><td>7"</td><td>15 lb.</td><td>624</td><td>8"</td><td>Set</td><td>624</td></tr><tr><td>4 1/2"</td><td>9 1/2</td><td>1799</td><td>6 3/4"</td><td>100 sx</td><td>None</td></tr></tbody></table>				CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	MOLE SIZE	CEMENTING RECORD	AMOUNT PULLED	8 5/8"	23 lb.	323	10"	150 sx	None	7"	15 lb.	624	8"	Set	624	4 1/2"	9 1/2	1799	6 3/4"	100 sx	None
CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	MOLE SIZE	CEMENTING RECORD	AMOUNT PULLED																						
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7"	15 lb.	624	8"	Set	624																						
4 1/2"	9 1/2	1799	6 3/4"	100 sx	None																						
27. LINER RECORD																											
<table border="1"><thead><tr><th>SIZE</th><th>TOP (MD)</th><th>BOTTOM (MD)</th><th>SACKS CEMENT*</th><th>SCREEN (MD)</th></tr></thead><tbody><tr><td></td><td></td><td></td><td></td><td></td></tr></tbody></table>				SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)																			
SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)																							
28. TUBING RECORD																											
<table border="1"><thead><tr><th>SIZE</th><th>DEPTH SET (MD)</th><th>PACER SET (MD)</th></tr></thead><tbody><tr><td>2 3/8"</td><td>1811</td><td></td></tr></tbody></table>				SIZE	DEPTH SET (MD)	PACER SET (MD)	2 3/8"	1811																			
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29. PERFORATION RECORD (Interval, size, and number)																											
Open hole-1799-1850																											
30. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.																											
<table border="1"><thead><tr><th>DEPTH INTERVAL (MD)</th><th>AMOUNT AND KIND OF MATERIAL USED</th></tr></thead><tbody><tr><td></td><td>Natural</td></tr></tbody></table>				DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED		Natural																				
DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED																										
	Natural																										
31. PRODUCTION																											
<table border="1"><thead><tr><th>DATE FIRST PRODUCTION</th><th>PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump)</th><th>WELL STATUS (Producing or shut-in)</th></tr></thead><tbody><tr><td>3/5/79</td><td>Flowing</td><td>Shut-in</td></tr></tbody></table>				DATE FIRST PRODUCTION	PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump)	WELL STATUS (Producing or shut-in)	3/5/79	Flowing	Shut-in																		
DATE FIRST PRODUCTION	PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump)	WELL STATUS (Producing or shut-in)																									
3/5/79	Flowing	Shut-in																									
<table border="1"><thead><tr><th>DATE OF TEST</th><th>HOURS TESTED</th><th>CHOKED SIZE</th><th>PROD'N. FOR TEST PERIOD</th><th>OIL—BBL.</th><th>GAS—MCF.</th><th>WATER—BBL.</th><th>GAS-OIL RATIO</th></tr></thead><tbody><tr><td>3/26/79</td><td>4</td><td>6"</td><td></td><td>0</td><td>286</td><td>0</td><td></td></tr></tbody></table>				DATE OF TEST	HOURS TESTED	CHOKED SIZE	PROD'N. FOR TEST PERIOD	OIL—BBL.	GAS—MCF.	WATER—BBL.	GAS-OIL RATIO	3/26/79	4	6"		0	286	0									
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3/26/79	4	6"		0	286	0																					
<table border="1"><thead><tr><th>FLOW. TUBING PRESS.</th><th>CASINO PRESSURE</th><th>CALCULATED 24-HOUR RATE</th><th>OIL—BBL.</th><th>GAS—MCF.</th><th>WATER—BBL.</th><th>OIL GRAVITY-API (CORR.)</th></tr></thead><tbody><tr><td>458</td><td>450</td><td></td><td>0</td><td>338</td><td>0</td><td></td></tr></tbody></table>				FLOW. TUBING PRESS.	CASINO PRESSURE	CALCULATED 24-HOUR RATE	OIL—BBL.	GAS—MCF.	WATER—BBL.	OIL GRAVITY-API (CORR.)	458	450		0	338	0											
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32. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.)																											
Shut-in awaiting connection																											
33. LIST OF ATTACHMENTS																											
4 - Point back pressure test - sample description																											
34. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records																											
SIGNED <u>Joe J. McClellan</u>		TITLE <u>Operator</u>																									
DATE <u>4/6/79</u>																											

*(See Instructions and Spaces for Additional Data on Reverse Side)

General: This form is designed for submitting a complete and correct well completion report and log on all types of lands and leases to either a Federal agency or a State agency, or both, pursuant to applicable Federal and/or State laws and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from, the local Federal and/or State office. See instructions on items 22 and 24, and 33, below regarding separate reports for separate completions. If not filed prior to the time this summary record is submitted, copies of all currently available logs (drillers, geologists, sample and core analysis, all types electric, etc.), formation and pressure tests, and directional surveys, should be attached hereto, to the extent required, by applicable Federal and/or State laws and regulations. All attachments should be listed on this form, see item 35.

Item 4: If there are no applicable State requirements, locations on Federal or Indian land should be described in accordance with Federal requirements. Consult local State or Federal office for specific instructions.

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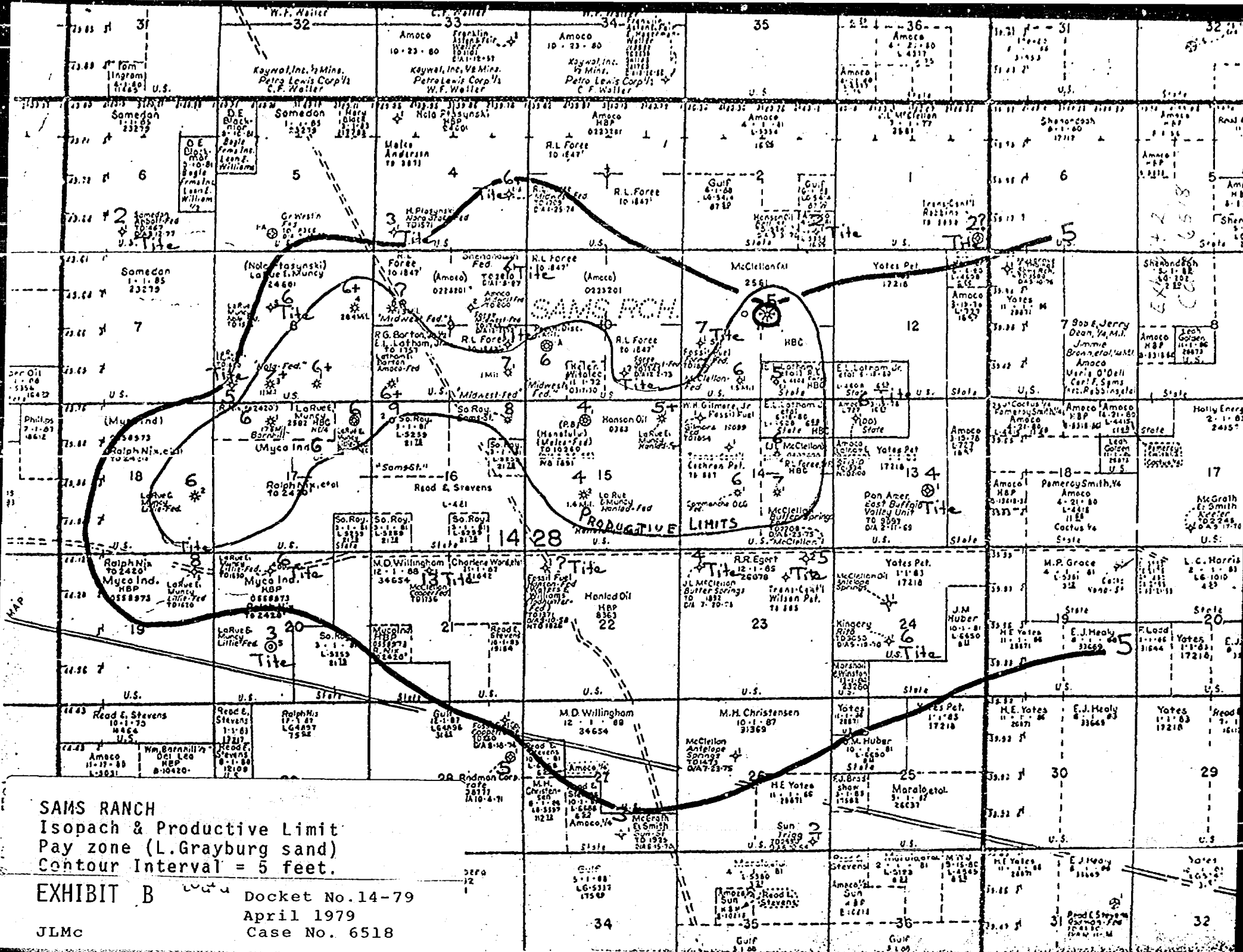
Item 29: "Sacks Cement": Attached supplemental records for this well should show the details of any multiple stage cementing and the location of the cementing tool.

Item 33: Submit a separate completion report on this form for each interval to be separately produced. (See instruction for items 22 and 24 above.)

[illegible]

DOCKET No. 14-79
CASE No. 6518

McCLELLAN OIL CORP.
SAMS RANCH AREA

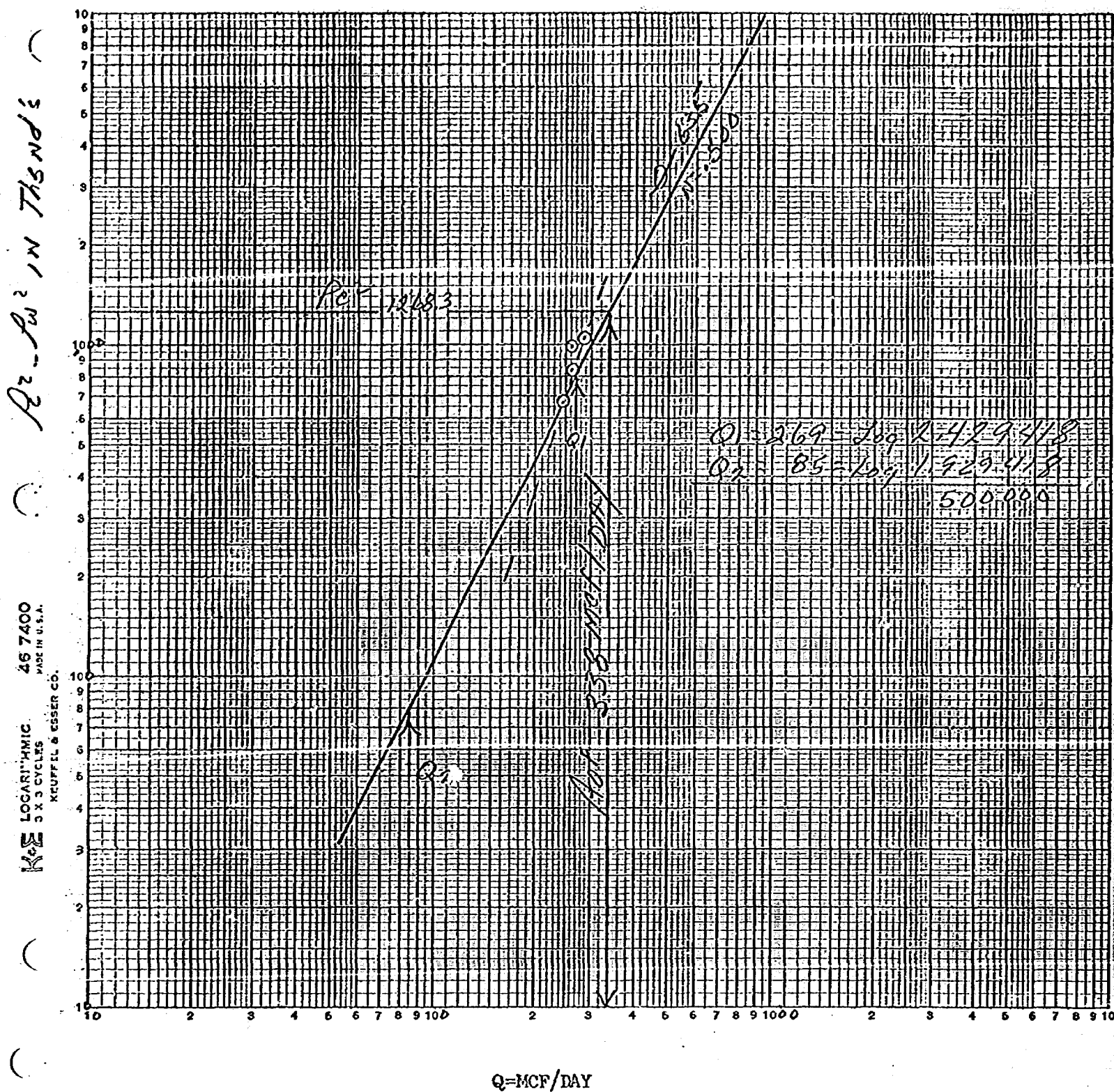


Form C-122
Revised 9-1-65

Type Test ☒ Initial ☐ Annual ☐ Special		Test Date 3-26-79		SPUD Date: 1-21-79	
Company McClellan Oil Company			Connection To Air		
Pool Sams Ranch			Formation Grayburg		Unit G
Completion Date		Total Depth 1850	Plug Back TD		Elevation
Csg. Size 4 1/2		WI. d	Set At 1798	Perforations: From open To hole	
Tbg. Size 2 3/8		WI. d	Set At 1811	Perforations: From open To end	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single			Packer Set At None		Well No. 2
Producing Thru Tbg.		Reservoir Temp. °F #	Mean Annual Temp. °F		Baro. Press. - P _a 13.2
L		H	G _g .733	% CO ₂ Nil	% N ₂ 24.5
			% H ₂ O Nil	Proves 6" Positive Choke	
				Meter Run Taps	
COUNTY Chaves					
STATE New Mexico					
FLOW DATA					
NO.	Prover Line Size	X	Orifice Size	Press. p.s.i.g.	Diff. hw
1	6" Positive Choke				
2					
3					
4					
5					
TUBING DATA					
CASING DATA					
RATE OF FLOW CALCULATIONS					
NO.	Coefficient (24 Hour)	$\sqrt{h_w} \cdot m$	Pressure P _m	Flow Temp. Factor Ft.	Gravity Factor F _g
1	.2618		723.2	.9896	1.168
2	.3346		651.2	.9887	1.168
3	.4173		524.2	.9887	1.168
4	.5090		473.2	.9887	1.168
5					
NO.	R	Temp. °R	T _f	Z	Gas Liquid Hydrocarbon Ratio
1	1.23	531	1.59	.904	
2	1.04	532	1.60	.921	
3	.84	532	1.60	.936	
4	.75	532	1.60	.942	
5					
$P_c = 1126.2 P_e^2 = 1268.3$					
NO.	P _e ²	P _w	P _w ²	P _e ² - P _w ²	(1) $\frac{P_e^2}{P_e^2 - P_w^2} = 1.892$
1		723.2	522.8	670.5	(2) $\left[\frac{P_e^2}{P_e^2 - P_w^2} \right]^n = 1.375$
2		650.2	422.8	845.5	
3		523.2	273.7	994.6	
4		471.2	222.0	1046.3	
5					
$AOF = Q \left[\frac{P_e^2}{P_e^2 - P_w^2} \right]^n = 338$					
Absolute Open Flow 338 Mc/d @ 15.025 Angle of Slope @ 63.5 Slope, n .500					
Remarks:					
Approved By Commission: Conducted By: Marshall Morris Calculated By: R. Reston Checked By: El Paso Natural Gas Co.					

McClellan OIL COMPANY

McClellan Federal No. 2
G-11-14-28
Chaves County, New Mexico
March 26, 1979



UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN DUPLICATE*

(See other In-
structions on
reverse side)Form approved.
Budget Bureau No. 42-R355.6.

WELL COMPLETION OR RECOMPLETION REPORT AND LOG *

1a. TYPE OF WELL: OIL WELL ☐ GAS WELL ☒ FRY ☐ Other ☐		6. LEASE DESIGNATION AND SERIAL NO. NM-2581	
b. TYPE OF COMPLETION: NEW WELL ☒ WORK OVER ☐ DEEP-EN ☐ PLUG-BACK ☐ DIFF. RESVR. ☐ Other ☐		7. IF INDIAN, ALLOTTEE OR TRIBE NAME	
c. NAME OF OPERATOR McClellan Oil Corporation		7. UNIT AGREEMENT NAME	
8. ADDRESS OF OPERATOR P. O. Box 848, Roswell, New Mexico 88201		8. FARM OR LEASE NAME McClellan Federal	
9. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)* At surface At top prod. interval reported below At total depth 2310 FNL & 2310 FEL		9. WELL NO. 2	
10. FIELD AND POOL, OR WILDCAT Sams Ranch		10. SEC. T. R. M. OR BLOCK AND SURVEY OR AREA Sec. 11, T14S, R28E	
11. PERMIT NO.		12. COUNTY OR PARISH Chaves	
13. DATE SPUNDED 1/21/79		13. STATE N.M.	
14. DATE T.D. REACHED 3/4/79		14. ELEVATION (DY, KRB, NZ, GR, ETC.) 3603 G.L.	
15. DATE COMPI. (Ready to prod.) 3/5/79		15. ROTARY TOOLS 0-1850	
16. TOTAL DEPTH, MD & TVD 1850		16. CABLE TOOLS 0-1850	
17. PLUG, BACK T.D., MD & TVD 1850		17. WAS DIRECTIONAL SURVEY MADE No	
18. IF MULTIPLE COMPL. HOW MANY?		18. WAS WELL CORED No	
19. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)* 1820-29		19. WAS WELL CORED No	
20. TYPE ELECTRIC AND OTHER LOGS RUN None - (See attached Sample log)		20. WAS WELL CORED No	
21. CASING RECORD (Report all strings set in well)			
CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE
8 5/8"	23 lb.	323	10"
7"	15 lb.	624	8"
4 1/2"	9 1/2	1799	6 3/4"
22. CEMENTING RECORD			
AMOUNT PULLED		AMOUNT PULLED	
None		624	
None		None	
23. LINER RECORD			
SIZE	TOP (MD)	BOTTOM (MD)	SCREEN (MD)
2 3/8"		1811	
24. TUBING RECORD			
SIZE	TOP (MD)	BOTTOM (MD)	SCREEN (MD)
2 3/8"		1811	
25. PERFORATION RECORD (Interval, size and number)			
Open hole 1799 - 1850			
26. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.			
DEPTH INTERVAL (MD)		AMOUNT AND KIND OF MATERIAL USED	
		Natural	
27. PRODUCTION			
DATE FIRST PRODUCTION 3/5/79		PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump) Flowing	
DATE OF TEST 3/26/79		HOURS TESTED 4	
CHOKE SIZE 6"		PROD'N. FOR TEST PERIOD 0	
OIL—BBL. 0		GAS—MCF. 286	
WATER—BBL. 0		OIL GRAVITY—API (CORR.) 338	
28. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.) Shut-in awaiting connection			
29. LIST OF ATTACHMENTS 4 - Point back pressure test - sample description			
30. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records			
SIGNED J. M. Call		TITLE Operator	
DATE 4/6/79			

*(See Instructions and Spaces for Additional Data on Reverse Side)

INSTRUCTIONS

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37. SUMMARY OF POROUS ZONES:

SHOW ALL IMPORTANT ZONES OF POROSITY AND CONTENTS THEREOF, CORED INTERVALS, AND ALL DRILL-STEM TESTS, INCLUDING DEPTH INTERVAL TESTED, CUSHION USED, TIME TOOL OPEN, FLOWING AND SHUT-IN PRESSURES, AND RECOVERIES

FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.
Queen	1235	1245	Water, slight show of oil
Premier sd.	1820	1829	Gas
			(101 of 1012 batches 992) - 900

38. GEOLOGIC MARKERS

NAME	MEAN DEPTH	TRUE VERT. DEPTH
Yates ?	511	
Queen	1235	
Grayburg	1540	
Premier sd.	1818	

Dockets Nos. 16-79 and 17-79 are tentatively set for hearing on April 25 and May 9, 1979. Applications for hearing must be filed at least 22 days in advance of hearing date.

DOCKET: EXAMINER HEARING - WEDNESDAY - APRIL 11, 1979

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

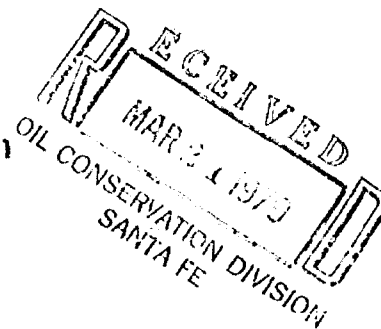
The following cases will be heard before Daniel S. Kutter, Examiner, or Richard L. Stomets, Alternate Examiner:

- CASE 6517: Application of Managan Petroleum Corporation for special pool rules, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks the promulgation of special pool rules for the Avalon-Wolfcamp Gas Pool, Eddy County, New Mexico, 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 Wolfcamp gas pools rather than the present 160-acre spacing.
- CASE 6518: Application of McClellan Oil Corporation for an unorthodox gas well location, Chaves County, New Mexico. Applicant, in the above-styled cause, seeks approval for the unorthodox location of its Federal Well No. 2, located 2310 feet from the North and East lines of Section 11, Township 14 South, Range 28 East, Sams Ranch-Grayburg Gas Pool, Chaves County, New Mexico, the NE/4 of said Section 11 to be dedicated to the well.
- CASE 6519: Application of Inexco Oil Company for a unit agreement, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks approval for its Bison Wallow Unit Area, comprising 7,040 acres, more or less, of Federal and State lands in Townships 25 and 26 South, Range 22 East, Eddy County, New Mexico.
- CASE 6520: Application of Belco Petroleum Corporation for downhole commingling, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks approval for the downhole commingling of Strawn and Morrow production in the wellbore of its Union Mead Com Well No. 1 located in Unit H of Section 8, Township 22 South, Range 27 East, Carlsbad Field, Eddy County, New Mexico.
- CASE 6521: Application of Adobe Oil Company for a unit agreement, Lea County, New Mexico. Applicant, in the above-styled cause, seeks approval for its East Tatum State Unit Area, comprising 2,560 acres, more or less, of State lands in Township 12 South, Range 36 East, Lea County, New Mexico.
- CASE 6522: Application of Petroleum Corporation of Texas for downhole commingling, San Juan County, New Mexico. Applicant, in the above-styled cause, seeks approval for the downhole commingling of Fruitland and Pictured Cliffs production in the wellbore of its Hanley Well No. 2-A located in Unit F of Section 18, Township 29 North, Range 10 West, San Juan County, New Mexico.
- CASE 6523: Application of Lonnie J. Buck for compulsory pooling, Lea County, New Mexico. Applicant, in the above-styled cause, seeks an order pooling all mineral interests in the Yates formation underlying each of the following 40-acre tracts in Section 25, Township 25 South, Range 36 East, Lea County, New Mexico: NW/4 SW/4 to be dedicated to the Brown Well No. 6 located in Unit L and SW/4 SW/4 to be dedicated to the Brown Well No. 7 located in Unit M. Also to be considered will be the cost of recompleting said wells and the allocation of the cost thereof as well as actual operating costs and charges for supervision. Also to be considered will be the designation of applicant as operator of the wells and a charge for risk involved in recompleting said wells.
- CASE 6502: (Continued from March 28, 1979, Examiner Hearing)
- Application of Stevens Oil Company for compulsory pooling, Chaves County, New Mexico. Applicant, in the above-styled cause, seeks an order pooling all mineral interests in the San Andres formation underlying the SW/4 SW/4 of Section 30, Township 8 South, Range 29 East, Chaves County, New Mexico, to be dedicated to a well to be drilled at a standard location thereon. Also to be considered will be the cost of drilling and completing said well and the allocation of the cost thereof as well as actual operating costs and charges for supervision. Also to be considered will be the designation of applicant as operator of the well and a charge for risk involved in drilling said well.
- CASE 6524: In the matter of the hearing called by the Oil Conservation Division on its own motion for an order creating, abolishing, and extending the vertical and horizontal limits of certain pools in Eddy and Lea Counties, New Mexico:
- (a) CREATE a new pool in Eddy County, New Mexico, classified as an oil pool for Seven Rivers production and designated as the Cave-Seven Rivers Pool. The discovery well is Kincaid and Watson Drilling Company Humble 8 Well No. 7 located in Unit D of Section 8, Township 17 South, Range 29 East, NMPM. Said pool would comprise:

TOWNSHIP 17 SOUTH, RANGE 29 EAST, NMPM
Section 8: NW/4



McClellan Oil Corporation



March 20, 1979

Case 6518

Energy and Minerals Department
Oil Conservation Division
Post Office Box 2088
Santa Fe, New Mexico 87501

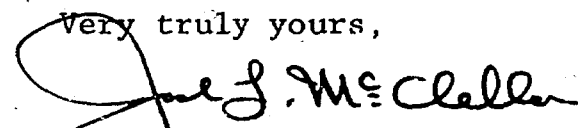
Re: McClellan Oil Corporation
McClellan Federal No. 2
2310' FN & EL
Section 11-T14S-R28E
Chaves County, New Mexico

Gentlemen:

This letter is to request a hearing before this Commission for a Non-Standard Location as described in the caption above. This well has been drilled and completed as a well capable of making gas out of the Grayburg Zone of the Premier Formation, and is located in the Undesignated Sams Ranch Pool of Chaves County, New Mexico. The acreage dedication to this well would be the NE $\frac{1}{4}$ of Section 11.

It is further requested that the hearing be scheduled on the April 11, 1979 Docket, inasmuch as we are unable to sell gas until a decision has been reached on this request.

Very truly yours,


Jack L. McClellan
President

For Apr 11 hrg.

Application of McClellan Oil Corp
for an unorthodox gas well location,
Chaves County, New Mexico.

Applicant, in the above styled cause, seeks
approval for the unorthodox gas well location
of its Federal Well No 2, located 2310 feet
from the North and East lines of Section
11, Township 14 South, Range 28 East, Sams
Ranch-Graybeary Gas Pool, Chaves County,
New Mexico, the NE/4 of said Section 11
to be dedicated to the well.

called in by Jack McChesney 11:30 am
3/20/79 - written appl to follow.
JSC

DRAFT

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. 6518

ORDER NO. R- 5990

APPLICATION OF McCLELLAN OIL CORPORATION

FOR AN UNORTHODOX GAS WELL LOCATION,

CHAVES COUNTY, NEW MEXICO.

ORDER OF THE DIVISION

BY THE DIVISION:

This cause came on for hearing at 9 a.m. on April 11,
1979, at Santa Fe, New Mexico, before Examiner Daniel S. Nutter.

NOW, on this day of April, 19 79, the Division
Director, having considered the testimony, the record, and the
recommendations of the Examiner, and being fully advised in the
premises,

FINDS:

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

(2) That the applicant, McClellan Oil Corporation,
seeks approval of an unorthodox gas well location of its Federal
Well No. 2 located 2310
feet from the North line and 2310 feet from the
East line of Section 11, Township 14 South
Range 28 East, NMPM, to test the
formation, Sams Ranch-Grayburg Gas Pool, Chaves
County, New Mexico.

(3) That the NE/4 of said Section 11 is to be
dedicated to the well.

(4) That a well at said unorthodox location will better
enable applicant to produce the gas underlying the proration unit.

(5) That no offset operator objected to the proposed unorthodox
location.

-2-

Case No. _____

Order No. R- _____

(6) That approval of the subject application will afford the applicant the opportunity to produce its just and equitable share of the gas in the subject pool, will prevent the economic loss caused by the drilling of unnecessary wells, avoid the augmentation of risk arising from the drilling of an excessive number of wells, and will otherwise prevent waste and protect correlative rights.

IT IS THEREFORE ORDERED:

(1) That an unorthodox gas well location for the Chaves Grayburg the McClellan Oil Corporation Federal Well No. 2 located formation is hereby approved for ~~a well to be located at a point~~ 2310 feet from the North line and 2310 feet from the East line of Section 11, Township 14 South, Range 28 East NMPM, Sams Ranch-Grayburg Gas Pool, Chaves County, New Mexico.

(2) That the NE/4 of said Section 11 shall be dedicated to the above-described well.

(3) 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.