

Case Number

4727

Application

Transcripts

Small Exhibits

ETC.

dearnley, meier & mc cormick

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BEFORE THE
NEW MEXICO OIL CONSERVATION COMMISSION
CONFERENCE HALL, STATE LAND OFFICE BUILDING
SANTA FE, NEW MEXICO
June 7, 1972

EXAMINER HEARING

IN THE MATTER OF:

Application of Harper Oil
Company for downhole
commingling, Lea County,
New Mexico.

CASE NO. 4727

BEFORE: Daniel Nutter
Examiner

TRANSCRIPT OF HEARING

1 MR. NUTTER: Call Case Number 4727.

2 MR. HATCH: Application of Harper Oil Company for
3 downhole commingling, Lea County, New Mexico.

4 MR. KELLAHIN: Jason Kellahin and W. Thomas
5 Kellahin, appearing on behalf of the Applicant, Harper Oil
6 Company. We have one witness we would like to have sworn
7 in Case 4727.

8 (Whereupon, the witness was sworn by Mr. Hatch.)

9 * * * * *

10 JOE A. COLEMAN,
11 called as a witness, after having been first duly sworn,
12 testified as follows:

13 MR. NUTTER: Proceed, Mr. Kellahin.

14 DIRECT EXAMINATION

15 BY MR. KELLAHIN:

16 Q Would you state your name, please?

17 A Joe A. Coleman.

18 Q Mr. Coleman, what business are you engaged in?

19 A The engineering business in Hobbs.

20 Q You are a petroleum engineer?

21 A Yes, sir.

22 Q Have you testified before the Oil Conservation
23 Commission on one of its Examiner Hearings before?

24 A Yes, sir.

25 Q And your qualifications have been made a matter of record?

1 A Yes, sir.

2 MR. KELLAHIN: Are the witness' qualifications
3 acceptable?

4 MR. NUTTER: Yes.

5 Q (By Mr. Kellahin, continuing) Mr. Coleman, in connection
6 with your work as consulting engineer, have you done
7 any work for Harper Oil Company involving the Application
8 now before the Examiner?

9 A Yes, sir.

10 Q Did you prepare a series of Exhibits in connection with
11 this Application?

12 A Yes, sir.

13 Q Briefly, what is proposed by the Applicant in this Case?

14 A Harper Oil Company seeks authority to commingle oil
15 production from the Blinebry-Drinkard, and Juan Tabo
16 pool in the wellbore of its S.J. Starkey well Number 2,
17 Lea County.

18 Q Could you briefly outline the reason for this
19 Application at this time?

20 A The main thing is the declining in production and the
21 complicated method of producing, at this time.

22 Q Did you have a Packer leak in the last test?

23 A Yes.

24 Q What zones were involved?

25 A Juan Tabo.

1 Q Would it, in your opinion, be economical to repair that
2 leak in the present state of these two reservoirs?

3 A Not under prevailing circumstances.

4 Q Now, referring you to what has been marked as Applicant's
5 Exhibit 1, can you discuss this Exhibit and the
6 information shown?

7 A It shows the current production to each zone within
8 the last thirty days. The Blinebry oil was 6 barrels
9 a day; Drinkard and Juan Tabo was 6 barrels a day and 5
10 barrels a day.

11 Q All three wells packed?

12 A Yes, sir.

13 Q Capable of flowing at the present time?

14 A Yes, sir.

15 Q Referring you to Exhibit Number 2, can you identify that
16 Exhibit?

17 A This is a pipeline, Shell pipeline, which is classified
18 as an intermediate swell. All three are producing zones.
19 We have zoned the pipeline gravity that they pay on, and
20 we have shown the separate gravity. We have broken down
21 each, and I might add, these two are commingled on the
22 surface, which is in the thirty-eight gravity class. If
23 we produce the oil and commingle oil and zones, we lose
24 approximately \$0.30 a day, but with filling a tank much
25 sooner, I believe you can keep the gravity up higher and

1 possibly fall into the thirty-nine or forty gravity
2 range.

3 Q Now, the total production from the three zones will
4 not exceed 50 barrels a day?

5 A No, sir.

6 Q And are the zones making water?

7 A All three zones are making two or three barrels a day
8 of water.

9 Q Would the flooding of each zone be compatible with the
10 flood of other zones?

11 A Yes, they are. The Juan Tabo and Blinebry production
12 is commingled at the surface, now, and the only problem
13 there is a little parafin.

14 Q But you estimate the total loss, if any, would be about
15 \$0.30 a day?

16 A If it goes on as it is now.

17 Q And you might actually have an increase?

18 A Yes, we anticipate a little higher gravity.

19 Q Now, referring you to what has been marked as Exhibit
20 Number 3, would you identify that Exhibit, please?

21 A This is the ownership of the three zones which is the
22 same for each zone and it lists the percentages of
23 ownership.

24 Q Now, there is no working ownership or overriding, or
25 royalty ownership, that is different from one zone to the

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1 other? They're all the same?

2 A Yes, sir.

3 Q Referring you now to what has been marked as Exhibit
4 Number 4, would you identify that, please?

5 A That is a schematic of the equipment in the hole at
6 the present time. Of course, our main purpose, here, is
7 the location of three sets of perforations, plus the fact
8 we're working in seven inch casing which would allow
9 any type of separation in the event of secondary recovery.

10 Q Commingling would not interfere with secondary recovery
11 of one of the latter zones?

12 A No, sir.

13 Q All three zones, you say, are flowing at the present
14 time?

15 A Yes, sir.

16 Q If you commingle the production, would you be able to
17 pump them?

18 A No problem recovering as much, if not more, oil.

19 Q The perforations are widely separated?

20 A Yes, they are and there is ample room for working room.

21 Q Who is the owner and operator of the Harper Oil Company?
22 905 Hightower Building, Oklahoma City, Oklahoma.

23 Q And the lease name, well number is S.J. Starkey, Well
24 Number 2?

25 A Yes, sir.

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- 1 Q However, it's shown without an S on different forms?
- 2 A Yes.
- 3 Q Well Number 2, where is that located?
- 4 A Unit H, Section 26, Township 21, Range 37, Lea County,
- 5 New Mexico.
- 6 Q And that is shown on Exhibit Number 5?
- 7 A Yes, sir.
- 8 Q That is a plat of the area involved?
- 9 A Yes, sir.
- 10 Q The Exhibit also shows the offsetting ownership and the
- 11 other wells completed in the area?
- 12 A Yes, sir.
- 13 Q Now, the order number for that triple completion was
- 14 1705?
- 15 A Yes, sir.
- 16 Q What was the date of that order?
- 17 A February 16, 1966.
- 18 Q You made a study of the production of that well?
- 19 A Yes, sir.
- 20 Q Referring you now to Exhibit Number 6, would you
- 21 identify that, please?
- 22 A That is a year of production, by the month, and it
- 23 is classified as a production decline.
- 24 Q How do you account for the increased production in the
- 25 Drinkard, or is that an increase?

1 A That's an increase. Work was done on that well back
2 at the end of October, last year.

3 Q But it's not declining again?

4 A Yes, sir, it is back to declining.

5 Q And attached to Exhibit Number 6 is a tabulation of the
6 oil production on which the Exhibit is based?

7 A Yes, sir.

8 Q Is that from the Commission records?

9 A From Harper Oil Company.

10 Q Now, referring you to what has been marked as Applicant's
11 Exhibit Number 7. Would you discuss that a little bit?

12 A This is the bottom oil pressure on each zone, 48 hour
13 shut-in, and recorded at each zone. Brinebry is 1320
14 pounds, Drinkard oil was 657, Juan Tabo was 664.

15 Q Now, with this pressure, for example, the Blinebry and
16 the other two zones, would the pressure, in your opinion,
17 cause any big decrease in oil from one zone to the other
18 or cause any damage of the separate reservoirs?

19 A In my opinion, they're shut-in pressures and in the event
20 they were opened up, the same surface pressure, in the
21 neighborhood of 25, 50, or 75 pounds shouldn't really
22 present any problems.

23 Q As long as you're flowing the well, would you have any
24 trouble with this well?

25 A Not at the present time. Referring to Exhibit 1, here,

1 the Blinebry well has about 15 pounds of surface pressure,
2 Drinkard oil, 100 pounds, Juan Tabo, 25 pounds.

3 Q And the other pressure is shut-in?

4 A Yes.

5 Q Mr. Coleman, did you also request, in the event the
6 Commission does not see fit to approve commingling of
7 all three zones, do you propose an alternative?

8 A Yes, sir, we request that the Drinkard and the Juan
9 Tabo oil be commingled.

10 Q But that would only be the alternative in the event
11 the Commission does not see fit to approve the commingling
12 of all three?

13 A Yes, sir.

14 Q Were these Exhibits prepared by you?

15 A Yes, sir.

16 MR. KELLAHIN: At this time, I would like to offer
17 into evidence Exhibits 1 through 7.

18 MR. NUTTER: Exhibits 1 through 7 will be admitted
19 into evidence.

20 MR. KELLAHIN: That's all I have, Mr. Nutter.

21 MR. NUTTER: Mr. Coleman, as you mentioned, the
22 pressure differential is different in the Blinebry than it
23 is in the other two zones?

24 MR. COLEMAN: Yes, sir.

25 MR. NUTTER: Now, the datum given for the Blinebry

1 is actually higher?

2 MR. COLEMAN: You'd have even more pressure if you
3 quoted the same datum as the other two zones.

4 MR. NUTTER: Now, you mentioned that you had
5 commingled the two lower zones. Those are the two that have
6 similar pressures, right?

7 MR. COLEMAN: Yes, sir.

8 MR. NUTTER: Now, we have got about a thousand feet
9 spread between perforations. What is the difference between
10 the others?

11 Are they fairly close together?

12 MR. COLEMAN: They are closer, yes, sir.

13 MR. NUTTER: And the leak in the pack was the
14 lower pack?

15 MR. COLEMAN: Yes, sir.

16 MR. NUTTER: The packer molded down at 6750?

17 MR. COLEMAN: Yes, sir.

18 MR. NUTTER: On the production decline curve,
19 Mr. Coleman, do you anticipate with a short period of time
20 that the production from the Drinkard would be down to
21 approximately 300 barrels per month or 200 barrels per month --
22 anyway, within the similar range as the other two zones?

23 MR. COLEMAN: Yes, sir.

24 MR. NUTTER: What was the nature of the work that
25 was performed in October?

dearnley, meier & mc cormick

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1 MR. COLEMAN: Some hazing, as I recall.

2 MR. NUTTER: And it just about doubled production,

3 but has declined substantially since then?

4 MR. COLEMAN: It increased production, but now

5 is back on the decline.

6 MR. NUTTER: The downhole commingling -- would you

7 actually go in and pull the pack or would you just go in and

8 open the sliding sleeves?

9 MR. COLEMAN: Open the sliding sleeves until we

10 can make some tests on it.

11 MR. NUTTER: I see.

12 Are there any further questions of the witness?

13 (No response.)

14 MR. NUTTER: You may be excused.

15 (Witness excused.)

16 MR. NUTTER: We'll take the case under advisement.

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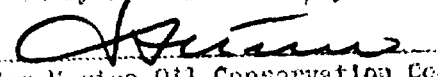
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1 STATE OF NEW MEXICO)
2) ss
3 COUNTY OF BERNALILLO)
4
5 I, ROSALIE E. CLAUSSEN, a Shorthand Reporter, in and for
6 the County of Bernalillo, State of New Mexico, do hereby
7 certify:
8
9 That the foregoing and attached Transcript of Hearing
10 before the New Mexico Oil Conservation Commission was reported
11 by me;
12
13 That the same is a true and correct record of the said
14 proceedings to the best of my knowledge, skill and ability.
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ROSALIE E. CLAUSSEN

Dated at Albuquerque, New Mexico
this 31st day of July, 1972.

I do hereby certify that the foregoing is
a complete record of the proceedings of
the Bernalillo hearing of Case No. 4727
heard by me on 6/7, 1972

New Mexico Oil Conservation Commission

I N D E XWITNESS:PAGEJOE A. COLEMAN

Direct Examination by Mr. Kellahin

3

E X H I B I T SAPPLICANT'SOFFEREDADMITTED

Exhibit Number 1

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Exhibit Number 2

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Exhibit Number 3

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Exhibit Number 4

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Exhibit Number 5

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Exhibit Number 6

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Exhibit Number 7

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OIL CONSERVATION COMMISSION

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

GOVERNOR
BRUCE KING
CHAIRMAN
LAND COMMISSIONER
ALEX J. ARMIJO
MEMBER
STATE GEOLOGIST
A. L. PORTER, JR.
SECRETARY - DIRECTOR

July 10, 1972

Mr. Jason Kellahin
Kellahin & Fox
Attorneys at Law
Post Office Box 1769
Santa Fe, New Mexico

Re: Case No. 4727
Order No. R-4333
Applicant:
HARPER OIL COMPANY

Dear Sir:

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

Very truly yours,

A. L. PORTER, Jr.
Secretary-Director

ALP/ir

Copy of order also sent to:

Hobbs OCC _____ x
 Artesia OCC _____
 Aztec OCC _____

Other _____

BEFORE THE OIL CONSERVATION COMMISSION
OF THE STATE OF NEW MEXICO

IN THE MATTER OF THE HEARING
CALLED BY THE OIL CONSERVATION
COMMISSION OF NEW MEXICO FOR
THE PURPOSE OF CONSIDERING:

CASE NO. 4727
Order No. R-4333

APPLICATION OF HARPER OIL
COMPANY FOR DOWNHOLE COM-
MINGLING, LEA COUNTY, NEW
MEXICO.

ORDER OF THE COMMISSION

BY THE COMMISSION:

This cause came on for hearing at 9 a.m. on June 7, 1972,
at Santa Fe, New Mexico, before Examiner Daniel S. Nutter.

NOW, on this 7th day of July, 1972, the Commission, a
quorum being present, having considered the testimony, the
record, and the recommendations of the Examiner, and being
fully advised in the premises,

FINDS:

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

(2) That the applicant, Harper Oil Company, is the
owner and operator of the S. J. Sarkey Well No. 2, located
in Unit H of Section 26, Township 21 South, Range 37 East,
NMPM, Lea County, New Mexico.

(3) That pursuant to authority granted by Administrative
Order MC-1705, said Well No. 2 was completed by the applicant
as a triple completion (conventional) to produce oil from the
Blinebry, Drinkard, and Wantz-Abo Pools.

(4) That each of the three zones in the subject well is
capable of only low marginal production.

(5) That communication has developed between the Drinkard
and Abo zones in the subject well through a leak in the packer
separating the two zones.

(6) That the applicant now proposes to complete said
well No. 2 in such a manner as to produce oil from the Blinebry
Pool through one string of 2 1/16-inch tubing and to produce
the low marginal production from the Drinkard and Wantz-Abo
Pools through a parallel string of tubing, commingling in the
well-bore the production from the Drinkard and Wantz-Abo zones.

-2-

CASE NO. 4727

Order No. R-4333

(7) That the proposed commingling in the subject well of the Drinkard and Abo zones may substantially extend the productive lives of said zones in the subject well.

(8) That the reservoir characteristics of the Drinkard and Abo zones in the subject well are such that underground waste would not be caused by the proposed commingling in the well-bore.

(9) That the proposed commingling may result in the recovery of additional oil from each of the commingled zones in the subject well, thereby preventing waste, and will not violate correlative rights.

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

(11) That in order to allocate the commingled production to each of the commingled zones in the subject well, approximately 60% of the future oil allowable and production should be attributed to the Drinkard zone, and 40% to the Wantz-Abo zone; and that approximately 33% of the future casinghead gas production shall be attributed to the Drinkard zone and approximately 67% to the Wantz-Abo zone.

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

(13) That Administrative Order MC-1705 should be superseded.

IT IS THEREFORE ORDERED:

(1) That the applicant, Harper Oil Company, is hereby authorized to complete its S. J. Sarkey Well No. 2, located in Unit H of Section 26, Township 21 South, Range 37 East, NMPM, Lea County, New Mexico, in such a manner as to produce oil from the Blinebry Pool through one string of 2 1/16-inch tubing and to produce oil from the Drinkard and Wantz-Abo Pools through a parallel string of tubing commingling in the well-bore the production from the Drinkard and Wantz-Abo Pools.

(2) That the applicant shall complete, operate, and produce said well in accordance with the provisions of Rule 112-A of the Commission Rules and Regulations insofar as said rule is not inconsistent with this order.

(3) That approximately 60% of the future oil allowable and production shall be attributed to the Drinkard zone and approximately 40% to the Wantz-Abo zone of the subject well until further order of the Commission; that approximately 33% of the future casinghead gas production shall be attributed to the Drinkard zone and approximately 67% to the Wantz-Abo zone of the subject well until further order of the Commission.

-3-

CASE NO. 4727

Order No. R-4333

(4) That the commingling in the well-bore authorized by this order shall continue only so long as the commingled production of the two zones does not exceed 80 barrels of oil per day nor 160 barrels of water per day.

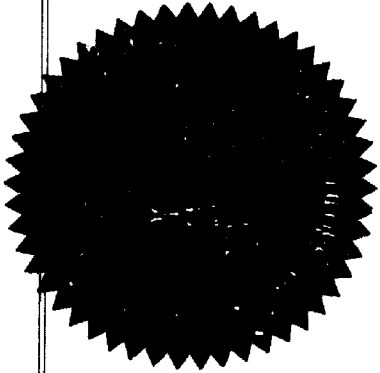
(5) That the maximum amount of gas which may be produced daily from the commingled zones in the subject well shall be determined by multiplying 2,000 by the top unit allowable for the Wantz-Abo Pool.

(6) That Administrative Order MC-1705 is hereby superseded.

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

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

STATE OF NEW MEXICO
OIL CONSERVATION COMMISSION



Bruce King
BRUCE KING, Chairman

Alex J. Armiijo
ALEX J. ARMIJO, Member

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

S E A L

dr/

Docket No. 12-72

DOCKET: EXAMINER HEARING - WEDNESDAY - JUNE 7, 1972

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

The following cases will be heard before DANIEL S. NUTTER, Examiner,
or ELVIS A. UTZ, Alternate Examiner:

CASE 4716 (Readvertised):

Application of Union Oil Company of California for directional drilling, Lea County, New Mexico. Applicant, in the above-styled cause, seeks authority to directionally drill its Owens Well No. 2, having a surface location in Unit I of Section 34, Township 14 South, Range 35 East, East Morton-Wolfcamp Pool, Lea County, New Mexico. Applicant proposes to set a whipstock at approximately 7200 feet and to directionally drill to bottom the well in the Wolfcamp formation within 100 feet of a point in Unit H 1730 feet from the North line and 560 feet from the East line of said Section 34. Applicant proposes to dedicate the E/2 NE/4 of Section 34 to the well. In the absence of objection an order will issue based upon testimony received in this case on May 17, 1972.

CASE 4726: Application of Shenandoah Oil Corporation for a waterflood project, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks authority to institute a waterflood project by the injection of water into the Grayburg-San Andres formations through one well located in the SE/4 NW/4 of Section 27, Township 18 South, Range 31 East, Shugart Pool, Eddy County, New Mexico.

CASE 4727: Application of Harper Oil Company for downhole commingling, Lea County, New Mexico. Applicant, in the above-styled cause, seeks authority to commingle oil production from the Blinebry, Drinkard, and Wantz-Abo Pools in the wellbore of its S. J. Sarkey Well No. 2 located in Unit H of Section 26, Township 21 South, Range 37 East, Lea County, New Mexico.

CASE 4728: Application of Texaco Inc. for special pool rules, Lea County, New Mexico. Applicant, in the above-styled cause, seeks the promulgation of special pool rules for the East Weir-Tubb Pool, Lea County, New Mexico, including provisions for 80-acre proration units and a limiting gas-oil ratio limitation of 4000 cubic feet of gas per barrel of oil.

CASE 4729: Application of American Trading and Production Corporation for a unit agreement, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks approval of the Round Mountain Unit Agreement comprising 5,757 acres, more or less,

(Case 4729 continued)

of Federal, State and Fee lands in Sections 19, 20, 21, 28, 29, 30, 31, 32, and 33, Township 21 South, Range 25 East, Eddy County, New Mexico.

CASE 4730: Application of Stoltz, Wagner & Brown for salt water disposal, Lea County, New Mexico. Applicants, in the above-styled cause, seek authority to dispose of produced salt water into the Devonian formation in the interval from 11224 to 11234 feet in their Soldier Hill State AE Well No. 1 located 800 feet from the North line and 1800 feet from the West line of Section 23, Township 12 South, Range 32 East, East Caprock Devonian Pool, Lea County, New Mexico.

CASE 4731: Application of Continental Oil Company for rededication of acreage and simultaneous dedication, Lea County, New Mexico. Applicant, in the above-styled cause, seeks authority to dedicate a standard 640-acre gas proration unit comprising all of Section 14, Township 20 South, Range 36 East, Eumont Gas Pool, Lea County, New Mexico, to its Sanderson "A" Wells Nos. 12 and 13 located, respectively, in Units P and G of said Section 14. Applicant further seeks authority to produce the allowable for the unit from either well in any proportion. Applicant further seeks the establishment of a procedure whereby the allowable for the above-described proration unit may be produced by any or all Eumont gas wells located within said unit without the necessity of notice and hearing.

CASE 4732: Application of Continental Oil Company for downhole commingling, Lea County, New Mexico. Applicant, in the above-styled cause, seeks authority to commingle production from the Skaggs-Glorieta, East Weir-Blaine, and Skaggs-Drinkard Pools in the wellbore of its Skaggs "B" Well No. 5 located 990 feet from the North line and 1700 feet from the West line of Section 12, Township 20 South, Range 37 East, Lea County, New Mexico.

CASE 4709: (Continued from the May 5, 1972, Examiner Hearing)

Application of Continental Oil Company for downhole commingling, Lea County, New Mexico. Applicant, in the above-styled cause, seeks authority to commingle production from the Eumont Gas Pool and the Penrose Skelly Oil Pool in the wellbore of its Lockhart A-17 Well No. 1 located in Unit L of Section 17, Township 21 South, Range 37 East, Lea County, New Mexico.

CASE 4733: Application of David Fasken for pool contraction and creation of a new gas pool, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks the contraction of the horizontal limits of the Indian Basin-Morrow Gas Pool, Eddy County, New Mexico, by the deletion therefrom of all of Sections 4 and 5, Township 21 South, Range 24 East. Applicant further seeks the creation of a new gas pool with horizontal limits comprising all of said Section 4 and 5 for the production of gas from the Morrow formation.

CASE 4734: Application of Hanagan Petroleum Corporation for pool extension, non-standard spacing unit, and unorthodox location, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks an order extending the horizontal limits of the Catclaw Draw-Morrow Gas Pool, Eddy County, New Mexico, to include all of Section 24, Township 21 South, Range 25 East and all of Section 19, Township 21 South, Range 26 East. Applicant further seeks approval of a 636.38-acre non-standard gas spacing unit comprising all of said Section 19 to be dedicated to its Nan-Bet Well No. 1 located at an unorthodox location for said pool 1980 feet from the North line and 660 feet from the West line of said Section 19.

CASE 4735: Application of El Paso Natural Gas Company for capacity production, San Juan County, New Mexico. Applicant, in the above-styled cause, seeks an exception to Rules 14 (A) 15 (A), and 15 (B) of the General Rules and Regulations for the prorated gas pools of Northwest New Mexico, to produce six wells located in Sections 29, 30, 31, and 32 of Township 32 North, Range 8 West and Section 36, Township 32 North, Range 9 West, Blanco-Mesaverde Pool, San Juan County, New Mexico, at full capacity for approximately one year from February 1, 1972.

Applicant further seeks authority to offset any overproduction accrued to the above-described six wells during the one-year period by underproduction attributable to any underproduced wells or marginal wells located within the participating area of the San Juan 32-9 Unit.

CASE 4736: Application of Dalport Oil Corporation for an exception to Order No. R-3221, as amended, Chaves County, New Mexico. Applicant, in the above-styled cause, seeks an exception to Order No. R-3221, as amended, to dispose into an unlined surface pit water produced from its Todhunter-Federal Well No. 1 located in the SE/4 NW/4 of Section 22, Township 15 South, Range 29 East, Double L Field, Chaves County, New Mexico.

APPLICATION FOR HARPER OIL COMPANY CASE NO. 1705

- A. All three zones to be commingled in the well are as shown as oil zones by MEMCO.

(EXHIBIT NO.2)

- B. The total daily production from three zones before commingling does not exceed 50 Bbls./Day.

(EXHIBIT NO.1)

- C. All three zones are capable of flowing at this time; However artificial will be used when required.

(EXHIBIT NO.1)

- D. All three zones are producing 2 to 3 BW/D total.

(EXHIBIT NO.1)

- E. The fluids from each zone are compatible with the fluids from the other zones. The ABO production and Blinebry production is being commingled on the surface and all three go into the same pipeline.

- F. The total value of the crude will not be reduced by commingling.

(EXHIBIT NO.2)

- G. Ownership of the three zones to be commingled is common.

(EXHIBIT NO.3)

- H. The Commingling will not jeopardize the efficiency of present or future secondary recovery operations, because of the 7" casing and distance between the perforations of each zone.

(EXHIBIT NO.4)

- A. Name and address of the operator

Harper Oil Company
904 Hightower Building
Oklahoma City, Oklahoma 73102

- B. Lease Name, Well number, well location.

S. J. Sarkeys, No. 2
Unit H, Sec. 26, Tw 21s Rg 37 e
Lea county, New Mexico (EXHIBIT NO.5)

- C. Names of Pools & order number for a Triple completion

Blinebry Oil
Drinkard Oil
Wantz ABO Oil Order No. 1705 (2-16-66)

(EXHIBIT NO.1)

- D. Production decline curve

(EXHIBIT NO.6)

- E. Current Production

(EXHIBIT NO.1)

- F. Bottom-Hole Pressure Data

(EXHIBIT NO.7)

- G. Description of the fluid characteristics

(EXHIBIT NO.2)

- H. Computation showing that the value of commingled production will not be reduced

(EXHIBIT NO.2)

1. All offset operators have been notified of the proposed commingling

2. It is further requested, as an alternative to the original application, that the Drinkard Oil and Wantz ABO Oil be commingled Downhole.

NEW MEXICO OIL CONSERVATION COMMISSION
GAS - OIL RATIO TESTS

EXHIBIT NO. 1
C-116
Revised 1-1-65

Operator HARPER OIL COMPANY		Pool Blinberry Oil		County Lea	
Address 905 Hightower Bldg., Oklahoma City, Oklahoma		TYPE OF TEST - (X) <input checked="" type="checkbox"/> Scheduled <input type="checkbox"/> Special <input checked="" type="checkbox"/>		Completion <input type="checkbox"/>	
LEASE NAME	WELL NO.	LOCATION U S T R	DATE OF TEST	CHOKE SIZE	TBG. PRESS.
S. J. Sarkey's	2	H 26 21 31	5-26-72	F 23/64	15
					10
					24
					1
					39.1 (6.0) TEST

BEFORE EXAMINER NOTAR
OIL CONSERVATION COMMISSION
EXHIBIT NO. 1
CASE NO. 4727
Submitted by Joe Coleman
Hearing Date June 7, 1972

No well will be assigned an allowable greater than the amount of oil produced on the official test.
During gas-oil ratio test, each well shall be produced at a rate not exceeding the top unit allowable for the pool in which well is located by more than 25 percent. Operator is encouraged to take advantage of this 25 percent tolerance in order that well can be assigned increased allowables when authorized by the Commission.
Gas volumes must be reported in MCF measured at a pressure base of 15.025 psia and a temperature of 60° F. Specific gravity base will be 0.60.
Report casing pressure in lieu of tubing pressure for any well producing through casing.
Mail original and one copy of this report to the district office of the New Mexico Oil Conservation Commission in accordance with Rule 301 and appropriate pool rules.

I hereby certify that the above information is true and complete to the best of my knowledge and belief.
COLEMAN PETROLEUM ENG. CO.

AGENT Joe Coleman (Signature)
5-31-72 (Date)

NEW MEXICO OIL CONSERVATION COMMISSION
GAS-OIL RATIO TESTS

EXHIBIT NO. 1
C-116
Revised 1-1-65

Operator Harper Oil Company		Pool Drinkard Oil		County Log									
Address 905 Hightower Bldg., Oklahoma City, Oklahoma		TYPE OF TEST - (X)		Completion <input type="checkbox"/> Special <input checked="" type="checkbox"/>									
LEASE NAME S. J. Sarkey's	WELL NO. 2	LOCATION U S T R			DATE OF TEST 5-24-72	CHOKE SIZE F19/64.100	TBG. PRESS.	DAILY ALLOW-ABLE	LENGTH OF TEST HOURS	PROD. DURING TEST			GAS - OIL RATIO CU. FT./BBL
		H	26	21	37	12	24	Tr	43	5	15	57.7	3847

No well will be assigned an allowable greater than the amount of oil produced on the official test.
During gas-oil ratio test, each well shall be produced at a rate not exceeding the top unit allowable for the pool in which well is located by more than 25 percent. Operator is encouraged to take advantage of this 25 percent tolerance in order that well can be assigned increased allowables when authorized by the Commission.
Gas volumes must be reported in MCF measured at a pressure base of 15.025 psia and a temperature of 60° F. Specific gravity base will be 0.60.
Report casing pressure in lieu of tubing pressure for any well producing through casing.
Mail original and one copy of this report to the district office of the New Mexico Oil Conservation Commission in accordance with Rule 301 and appropriate pool rules.

I hereby certify that the above information is true and complete to the best of my knowledge and belief.
COLEMAN PETRO, JR. ENG. CO.

(Signature)
AGENT
5-31-72
(Date)

EXHIBIT NO. 1
C-116
Revised 1-1-65

No well will be assigned an allowable greater than the amount of oil produced on the official test.

During gas-oil ratio test, each well shall be produced at a rate not exceeding the top unit allowable for the pool in which well is located by more than 25 percent. Operator is encouraged to take advantage of this 25 percent tolerance in order that well can be as graded as increased allowables when authorized by the Commission.

Gas volumes must be reported in MCF measured at a pressure base of 15.025 psia and a temperature of 60° F. Specific gravity base will be 0.60.

Report casing pressure in lieu of tubing pressure for any well producing through casing.

Mail original and one copy of this report to the district office of the New Mexico Oil Conservation Commission in accordance with rule 301 and appropriate pool rules.

COLEMAN PETROLEUM ENG. CO.

(Signature)

(Tide)

(Date)

Shell Pipeline Classification Of Crude:

Blinebry Oil Intermediate Sweet
 Drinkard Oil Intermediate Sweet
 Wantz Abo Oil Intermediate Sweet

Pipeline Gravity:

Wantz Abo & Blinebry 38°
 Drinkard 39°

Separator Gravity:

Blinebry 39.1°
 Drinkard 43.2°
 Wantz 38.9°

40° Crude sells For \$3.56 per Bbl.
 39° Crude sells For \$3.54 per Bbl.
 38° Crude sells For \$3.52 per Bbl.

Blinebry Oil (6B/D)(\$3.52/B)=	\$21.12
Drinkard, Oil (15B/D)(\$3.54)=	\$53.10
Wantz Abo Oil (5B/D)(\$3.52/B)=	\$17.60
Total	---\$91.82---
Total (26P/D)(\$3.52)=	\$91.52

By filling a tank sooner with total production it is possible that the total value of the crude will be increased.

BEFORE EXAMINER NUTTER	
OIL CONSERVATION COMMISSION	
Applicant	EXHIBIT NO. 2
CASE NO.	4727
Submitted by	Joe Calima
Hearing Date	June 7, 1972

HARPER OIL COMPANY
904 HIGHTOWER BUILDING
OKLAHOMA CITY, OKLAHOMA 73102

May 31, 1972

Coleman Petroleum Engineering Company
3713 West Marland
P. O. Box 1829
Hobbs, New Mexico 88240

Attention: Mr. Joe A. Coleman
Agent

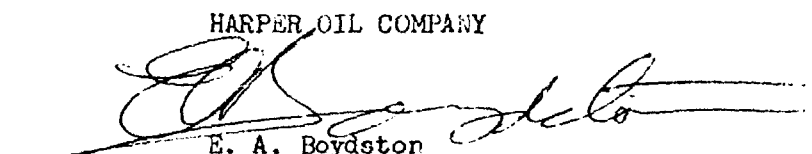
Gentlemen:

The gravity of the oil from the Sarkeys No. 2 is as follows:

Drinkard - 39° gravity - \$3.54 per bbl.
Wantz Abo & Blinbry - 38° gravity - \$3.52 per bbl.

Very truly yours,

HARPER OIL COMPANY



E. A. Boydston

EAB/dh

Lease Owners Sarkeys #2

Drinkard, Elinebry & Abo Formations

Orono Production Co. (Acoma Oil Corporation)	.416667
Betty M. Jackson	.0833333
Geier Bros., Inc.	.0833333
Harper Oil Company	.416667

*ownership
identified
in all 3 zones*

BEFORE EXAMINER NUTTER
OIL CONSERVATION COMMISSION
applicants EXHIBIT NO. 3
4727
Submitted by for Colina
Hearing Date June 7, 1972

BAKER OIL TOOLS, INC.
1-28-66.

9 5/8" - 32.30#
Csg. 1349'

EXHIBIT NO. 4

Ent Top = 1700'

2 1/16 I.D. TUBING

7'-23" N-80 CASINO
& J-55

2 3/8 EUE 8 RD. TUBING

2 1/16 X 1.50 PSI
MODEL 'F' SEATING
NIPPLE - PROD. 801-50

4' PUP JOINT

1.87 LATCHING SUB

85-87 (5 3/8 X 2 3/8 X 1.87) BAKER
MODEL 'B' PARALLEL STRING ANCHOR
LATCHING SUB - PROD. 699-02
@ 5676

BLINEBRY ZONE 5710-5861

2 1/16 X 1.50 PSI
MODEL 'L' SLIDING
SLEEVE - PROD. 810-04

4' PUP JOINT

2.68 BAKER MODEL 'S'
PARALLEL SNAP LATCH
SEAL NIPPLE - PROD.
707-03

47C2 (2 3/8 X 2.68) BAKER MODEL 'A-5'
HYDROSTATIC DUAL PACKER - PROD. 723-16
@ 6396

2 1/16 X 1.43 PSI
MODEL 'R' BOTTOM NO-GO
SEATING NIPPLE - PROD.
801-55

DRINKARD ZONE 6445 - 6546

2 3/8 X 1.87 PSI MODEL 'L' SLIDING
SLEEVE - PROD. 810-04

4' PUP JOINT

81-32 BAKER MODEL 'E'
LOCATOR TUBING SEAL
ASSEMBLY W/ 4 SEAL
UNITS - PROD. 442-01

86-32 BAKER MODEL 'D' RETAINER
PRODUCTION PACKER - PROD. 445-01
@ 6750

*Leak in this
packer.*

2 3/8 X 1.78 PSI MODEL 'F' SEATING
NIPPLE - PROD. 801-50

2 3/8 EUE 8 RD. TUBING

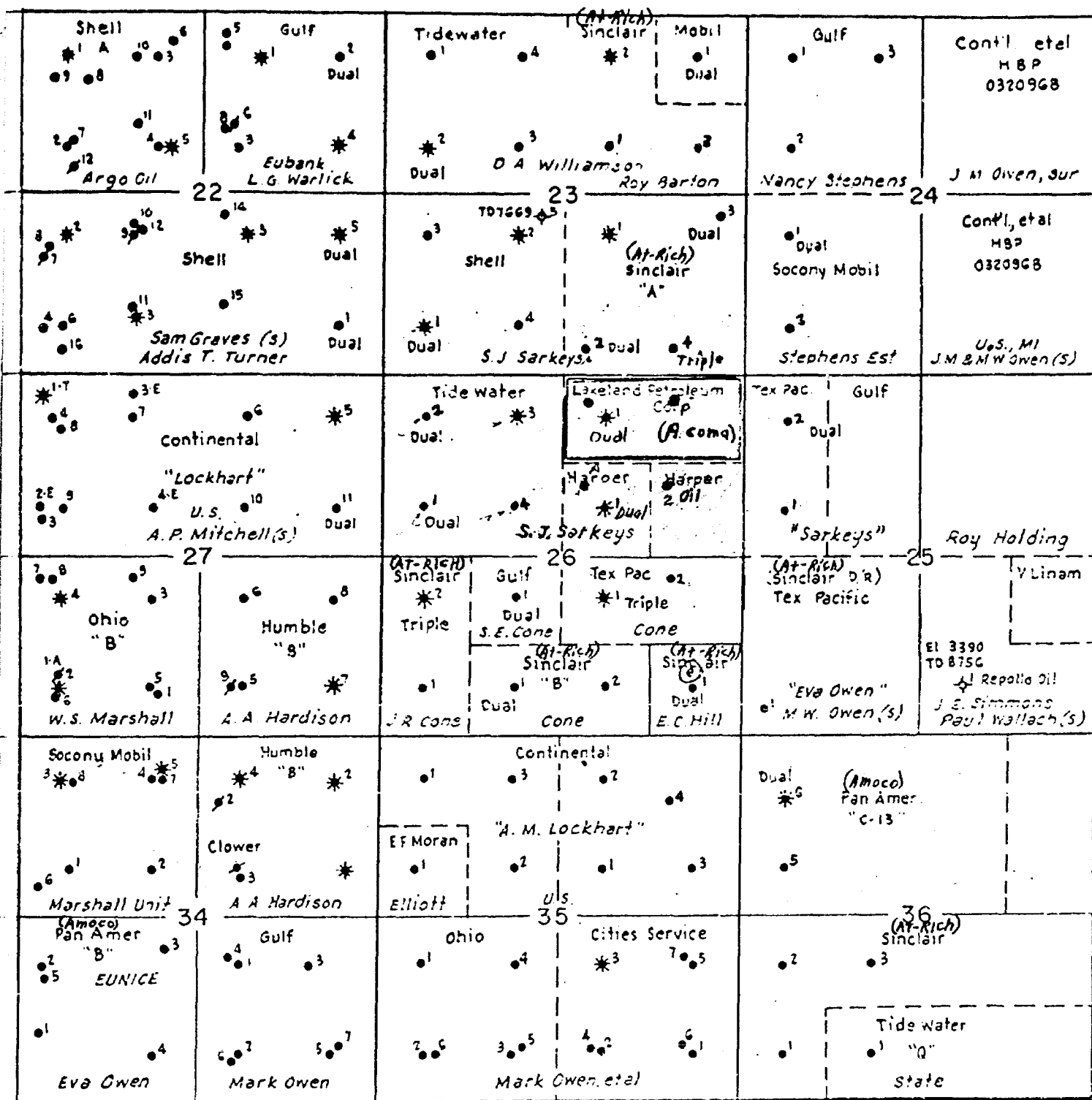
WANTZ ABO ZONE 6777 - 7213

7" casing set @ 7289

Total Depth = 7295'

HARPER OIL COMPANY
S.J. SARKEYS No. 2
NW SE NE T-21, R-37-E
LEA COUNTY, NEW MEXICO

*Triple control
approved
R-1705-
2-16-66*



HARPER OIL COMPANY

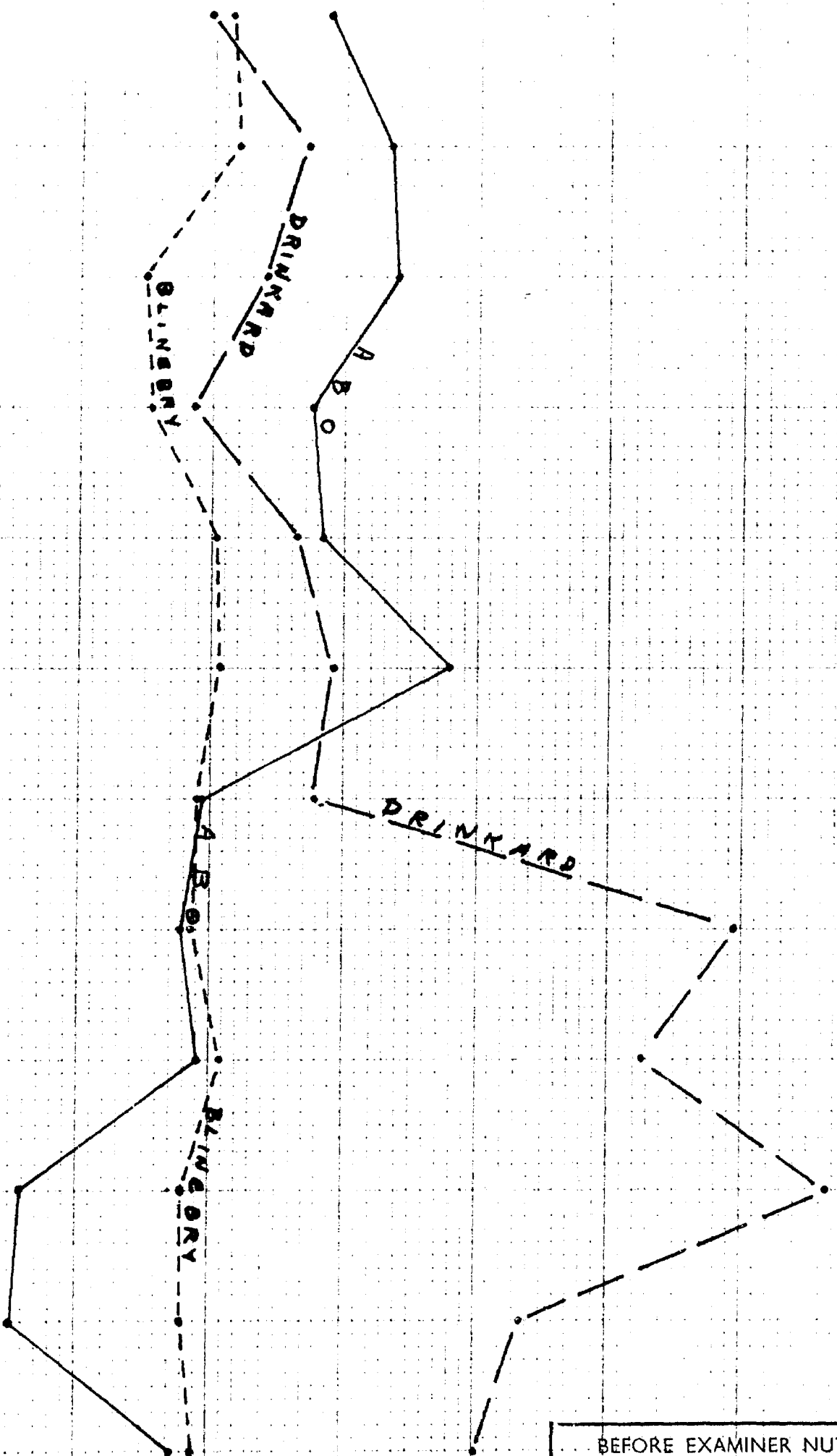
SARKEYS LEASE
T-21-S R-37-E
LEA COUNTY, NEW MEXICO
SCALE 1"=2000'

BEFORE EXAMINER NUTTER
OIL CONSERVATION COMMISSION
appheath EXHIBIT NO. 5
CASE NO. 4727
Jai Coleman
June 7, 1972

EXHIBIT NO. 6

MAY JUN 9 JUL 7 AUG 1 SEP OCT NOV DEC JAN 9 FEB 9 MAR 7 APR

SARKEYS NO. 2 - PRODUCTION DECLINE



BEFORE EXAMINER NUTTER
OIL CONSERVATION COMMISSION
apparent EXHIBIT NO. 6
CASE NO. 4727
Submitted by Joe Coleman
Hearing Date June 7, 1972

Sarkeys No. 2

OIL PRODUCTION BY MONTHS

	<u>Abo</u>	<u>Blinebry</u>	<u>Drinkard</u>
		<u>B A R R E L S</u>	
May, 1971	289	213	199
June, 1971	323	220	271
July, 1971	340	150	241
Aug, 1971	275	154	187
Sep, 1971	284	204	264
Oct, 1971	379	208	293
Nov, 1971	194	190	279
Dec, 1971	179	187	594
Jan, 1972	191	209	526
Feb, 1972	58	180	665
Mar, 1972	51	180	435
Apr, 1972	172	189	401

RESERVOIR PRESSURE REPORT

dress 905 Hightower Bldg.
Oklahoma City, Oklahoma

Sarky

BEFORE EXAMINER NUTTER
OIL CONSERVATION COMMISSION
apparently EXHIBIT NO. 7
SEN. NO. 4727
Witnessed by for value
Filing Date Feb 7 1912

All depths plus or minus *see level*; all pressures psi; Bomb shall be calibrated frequently enough against a dead weight tester to ensure an accuracy of one per cent; gas gravity shall be determined by analysis; liquid level shall be feet above datum plane. *SEE RULE 302.*

I hereby certify that the above information is true and complete to the best of my knowledge and belief.

COLLEMAN PETROLEUM ENGINEERING COMPANY

(Signature)

AGENT

(Title)

5-31-72
(Date)

(Date)



COLEMAN PETROLEUM ENGINEERING COMPANY

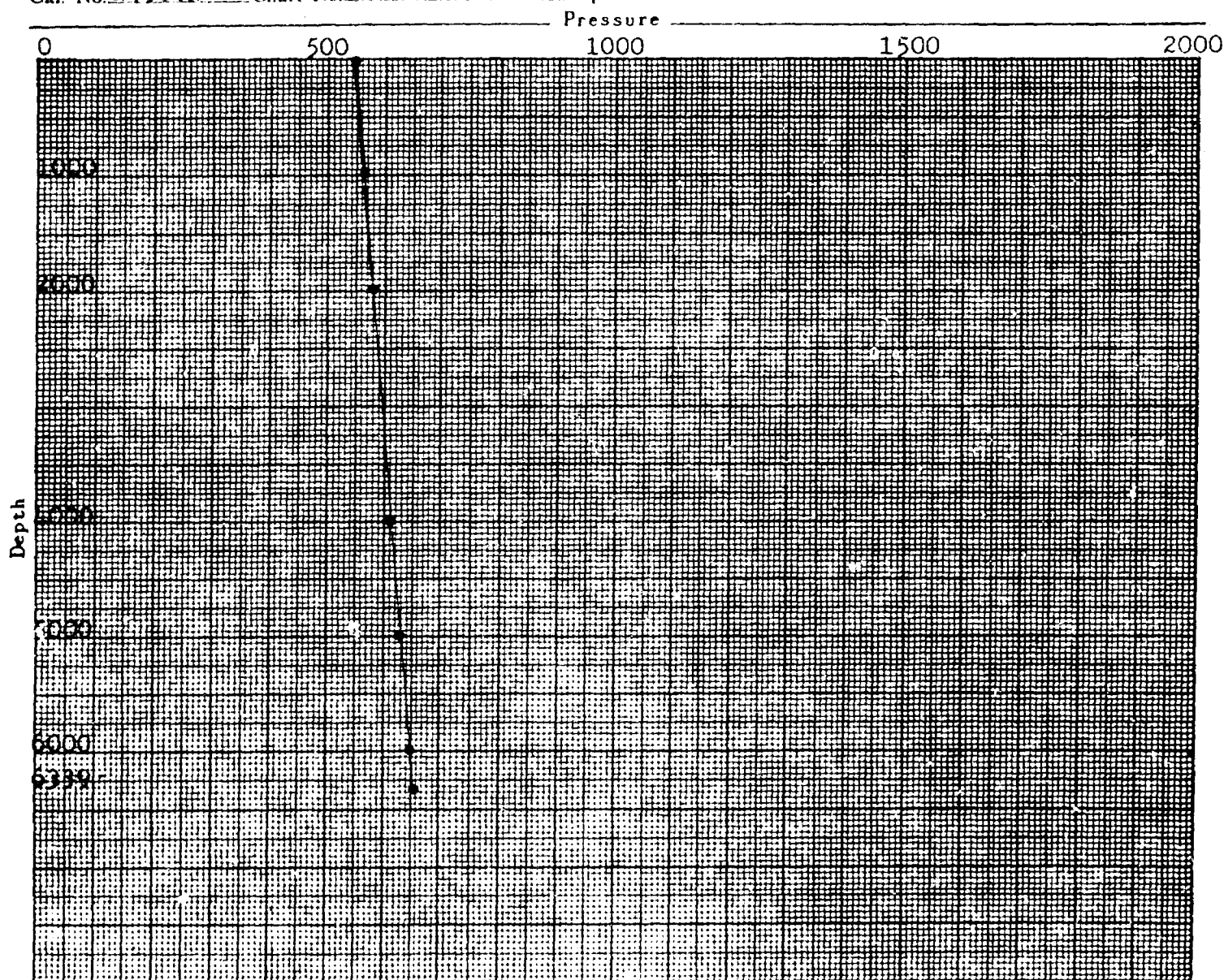
PHONE EXPRESS 3-3813
611 GRIMES
P O BOX 1829
HOBBS, NEW MEXICO

BOTTOM HOLE PRESSURE RECORD

OPERATOR Harper Oil Company
FIELD Drinkard FORMATION Drinkard Oil
LEASE Sarkey WELL No. 2
COUNTY Lea STATE New Mexico
DATE 5-30-72 TIME 9:30 Am
Status Shut In Test depth 6339'
Time S. 148.0 Last test date 12-2-71
Tub Pres. 547 BHP last test 499
Gas. Pres. Triple BHP change 158# Gain
Elev. 3389' KB-11' Fluid top. NONE
Datum (-3050') Water top. NONE
Temp. @ 106°F Run by Weaver
Cal. No. A4586N Chart No. 1

Depth	Pressure	Gradient
0	547	-
1000	561	.014
2000	576	.015
4000	606	.015
5000	624	.018
6000	647	.023
6339	655	.024
6439(-3050)	657*	(.024)

* Extrapolated pressure



TYPE OF REPORT - (X)	
Initial Completion	<input type="checkbox"/>
Special	<input checked="" type="checkbox"/>
General Survey	<input type="checkbox"/>

NEW MEXICO OIL CONSERVATION COMMISSION

Form C-124
Revised 1-1-65

RESERVOIR PRESSURE REPORT

EXHIBIT NO. 7

Operator		Pool		Producing Formation		Oil Gradient		Water Gradient		Gas Gravity		Datum Plane		Date							
HARPER OIL COMPANY		Blaineby Oil		Blaineby Oil		.326		-		.029		5-30-72		5-30-72							
Address 905 Hightower Bldg. Oklahoma City, Oklahoma		Blaineby Oil		.326		psl/ft.		-		psl/ft.		.029		(=-2400')							
LEASE	WELL NO.	LOCATION			ELEV.	GIL OR GAS (4)	DATE TESTED	SHUT-IN TSG. PRESS.	BOMB TEST DATA			SONIC INSTRUMENT TEST DATA*			PRESS. AT DATUM						
		U	S	T					R	TEST DEPTH	S.H. TEMP. °F	OB-SERVED PRESS.	PROD. TEST (BBLG./DAY)	L. LIQUID LEVEL		L. LIQUID GRAD-IENT PSI/FT.	WT. OF LIQUID COL. PSI	WT. OF GAS COL. PSI	CSC. PRESS.		
Sarkey	2	H	26	21	37	3389	0	5-30-72	48	837	5639	100	1271	-	-	-	-	-	-	Triple	1320

All depths plus or minus sea level; all pressures psi; Bomb shall be calibrated frequently enough against a dead weight tester to ensure an accuracy of one per cent; gas gravity shall be determined by analysis; liquid level shall be feet above datum plane. see RULE 302.

* Well shall be produced at least 24 hours prior to shutting in for sonic test.

I hereby certify that the above information is true and complete to the best of my knowledge and belief.

COLEMAN PETROLEUM ENGINEERING COMPANY

AGENT

(Signature)

(Title)

5-31-72

(Date)



COLEMAN PETROLEUM ENGINEERING COMPANY

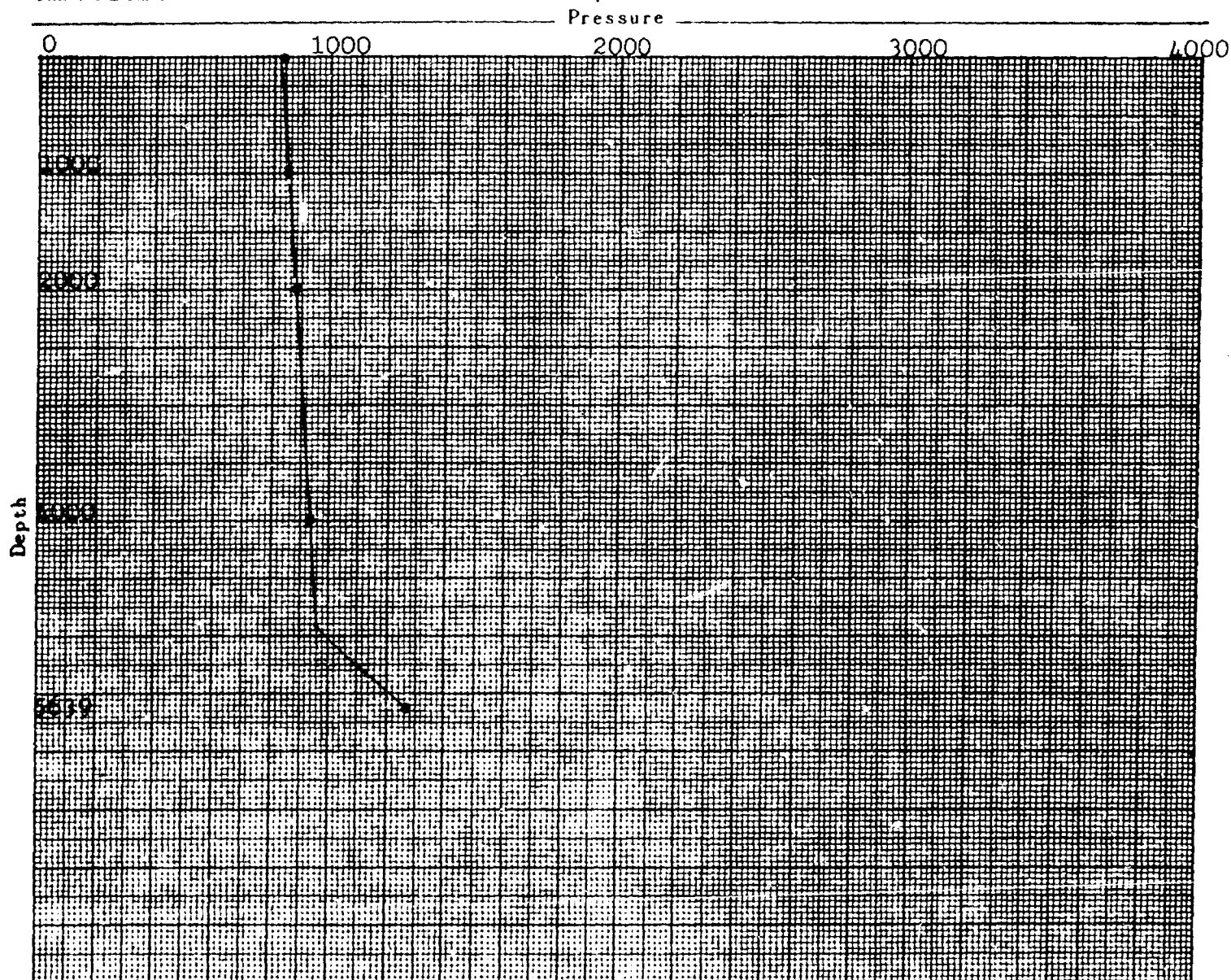
PHONE EXPRESS 3-3813
611 GRIMES
P. O. BOX 1829
HOBBS, NEW MEXICO

BOTTOM HOLE PRESSURE RECORD

OPERATOR Harper Oil Company
FIELD BlinebryFORMATION BlinebryOil
LEASE Sarkey WELL No. 2
COUNTY Lea STATE New Mexico
DATE 5-30-72 TIME 10:30 Am
Status Shut In Test depth 5639'
Time S. 148.0 Hrs Last test date 2-14-72
Tub Pres. 837 BHP last test 1199
Cas. Pres. Triple BHP change 121# Gain
Elev. 3389' KB-11' Fluid top
Datum (-2400') Water top
Temp. @ 100°F Run by Weaver
Cal. No. A4586N Chart No. 2

Depth	Pressure	Gradient
0	837	-
1000	862	.025
2000	889	.027
4000	947	.029
5639	1271	.198
5789(-2400)	1320*	(.326)

* Extrapolated pressure



TYPE OF REPORT - (X)	Initial Completion

Form C-124
Revised 1-1-65

Special
General Survey

All depths plus or minus sea level; all pressures psi; Bomb shall be calibrated frequently enough against a dead weight tester to ensure an accuracy of one per cent; gas gravity shall be determined by analysis; liquid level shall be feet above datum plane. *SEE RULE 302.*

COLLINS PETROLEUM ENGINEERING COMPANY

5-31-73
(Date)



COLEMAN PETROLEUM ENGINEERING COMPANY

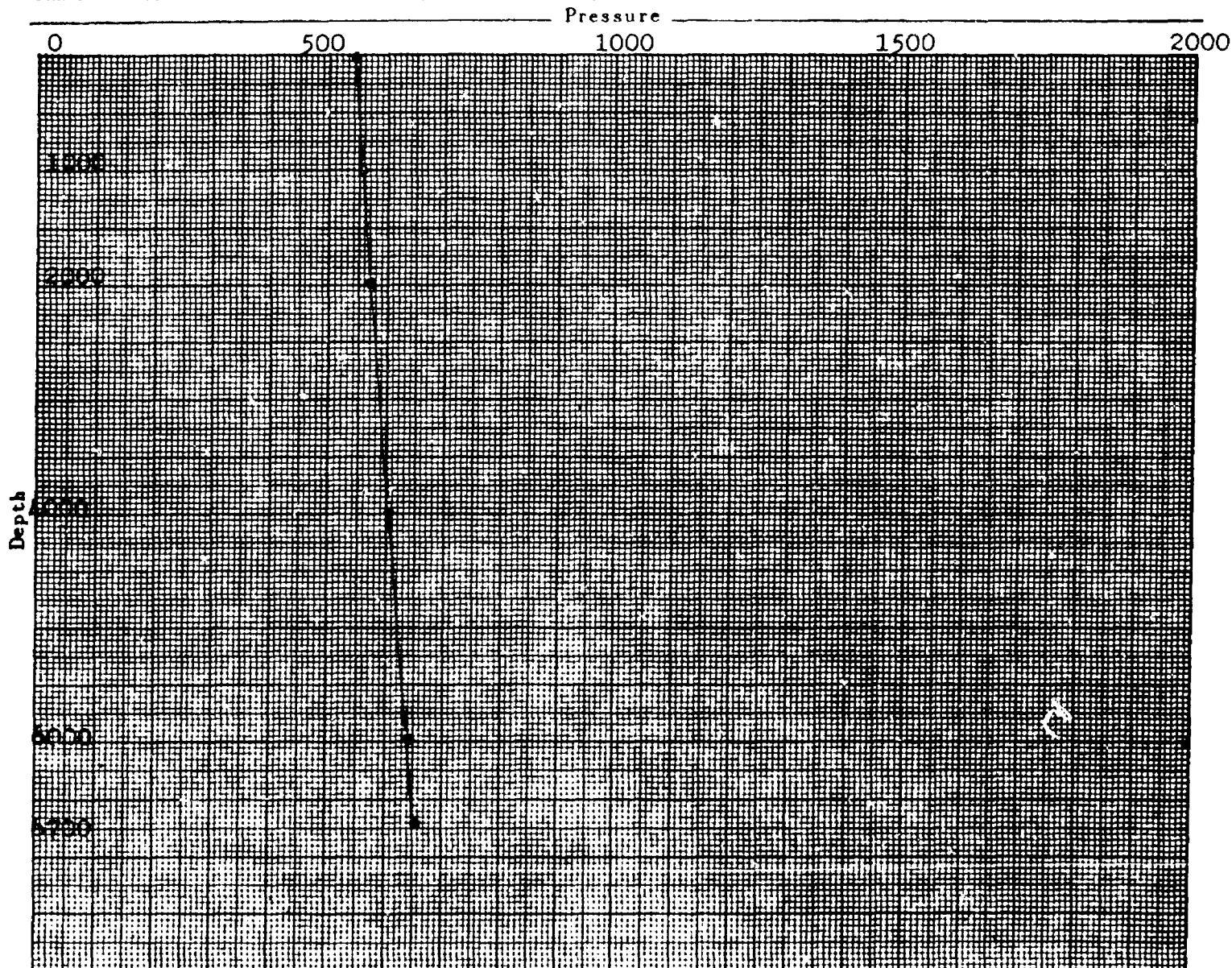
PHONE EXPRESS 3-3813
611 GRIMES
P O BOX 1029
HOBBS, NEW MEXICO

BOTTOM HOLE PRESSURE RECORD

OPERATOR Harper Oil Company
FIELD Wantz FORMATION ABO
LEASE Sarkey WELL No. 2
COUNTY Lea STATE New Mexico
DATE 5-30-72 TIME 11:30 Am
Status Shut In Test depth 6700'
Time S. 148.0 Hrs Last test date 5-8-69
Tub Pres. 541 BHP last test 642
Cas. Pres. Triple BHP change 22# Gain
Elev. 3389' KB-11' Fluid top NONE
Datum (-3750') Water top NONE
Temp. @ 109°F Run by Weaver
Cal. No. A4586N Chart No. 3

Depth	Pressure	Gradient
0	541	-
1000	555	.014
2000	570	.015
4000	603	.017
6000	641	.019
6700	655	.020
7139(-3750)	664*	(.020)

* Extrapolated pressure





COLEMAN PETROLEUM ENGINEERING COMPANY

PHONE 393-3813

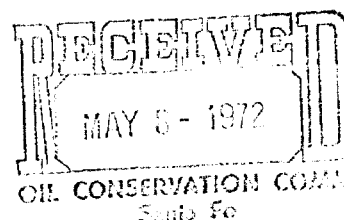
3713 W. MARLAND ST.

P. O. BOX 1829

HOBBS, NEW MEXICO 88240

May 4, 1972

Mr. A. L. Porter, Secretary-Director
Oil Conservation Commission
P. O. Box 2088
Santa Fe, New Mexico 87501



Dear Mr. Porter,

I respectfully request a hearing, at the earliest date, on an application for Harper Oil Company to commingle downhole the production from all zones in S.J. Sarkey, Well No. 2, which is a triple completion located in Lea County, New Mexico. The well, located in Unit H, Sec. 26, 21s, 37e, is producing from the Blinebry Oil, Drinkard Oil, and Wantz ABO Oil pools.

It is further requested, as an alternative, to the original application, that the Drinkard Oil and Wantz ABO Oil be commingled downhole.

Very Truly Yours

Joe A. Coleman, Agent

Harper Oil Company
905 Hightower Bldg.
Oklahoma City, Okla.

cc: Harper Oil Company
905 Hightower Bldg.
Oklahoma City, Okla.
Acoma Oil Corporation
812 Continental Life Bldg.
Ft. Worth, Texas
Texas Pacific Oil Company
P.O. Box 4067
Midland, Texas 79701
Atlantic Richfield Company
P.O. Box 1610
Midland, Texas 79701

DOCKET MARKED

Date 5-24-72

DRAFT

GMH/dr

BEFORE THE OIL CONSERVATION COMMISSION
OF THE STATE OF NEW MEXICO

IN THE MATTER OF THE HEARING
CALLED BY THE OIL CONSERVATION
COMMISSION OF NEW MEXICO FOR
THE PURPOSE OF CONSIDERING:

CASE No. 4727

Order No. R- 4323

APPLICATION OF HARPER OIL
COMPANY FOR DOWNHOLE COM-
MINGLING, LEA COUNTY, NEW
MEXICO.

ORDER OF THE COMMISSION

BY THE COMMISSION:

This cause came on for hearing at 9 a.m. on June 7, 1972,
at Santa Fe, New Mexico, before Examiner Daniel S. Nutter.

NOW, on this July day of June, 1972, the Commission, a
quorum being present, having considered the testimony, the record,
and the recommendations of the Examiner, and being fully advised
in the premises,

FINDS:

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

(2) That the applicant, Harper Oil Company, is the owner and
operator of the S. J. Sarkey Well No. 2, located in Unit H of
Section 26, Township 21 South, Range 37 East, NMPM, Lea County,
New Mexico.

(3) That pursuant to authority granted by Administrative Order MC-1705 said Well No. 2 was completed by the applicant as a triple completion ^(Conventional) ~~(tubingless)~~ to produce oil from the Blinebry, Drinkard, and Wantz-Abo Pools.

(4) That the each of the three and _____ zones in the subject well ^{is} ~~are~~ capable of only low marginal production.

(5) (6) That the applicant now proposes to complete said well No. 2 in such a manner as to produce oil from the Blinebry Pool through one string of 2 1/8 inch ~~2 7/8 inch~~

tubing ~~casing~~ and to produce the low marginal production from the

Drinkard and Wantz-Abo Pools through ^{or string of tubing} ~~a single~~ parallel string of ~~2 7/8 inch casing~~ commingling in the well-bore the production from the ~~Blinebry~~ Drinkard and Wantz-Abo zones.

(7) (6) That the proposed commingling in the subject well of the Drinkard and abo _____ zones may substantially extend the productive lives of said zones in the subject well.

(8) (7) That the reservoir characteristics of the Drinkard and abo _____ zones in the subject well are such that underground waste would not be caused by the proposed commingling in the well-bore.

(9) (8) That the proposed commingling may result in the recovery of additional oil from each of the commingled zones in the subject well, thereby preventing waste, and will not violate correlative rights.

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

(5) That Communication has developed between the Drinkard and Abo zones in the subject well through a block in the packer separating the two zones.

(11) (10) That in order to allocate the commingled production to each of the commingled zones in the subject well, approximately 60% of the future ^{oil} allowable and production should be attributed to the Drinkard zone, and 40% to the Wantz-Abo zone; and that approximately 33% of the future casinghead gas production shall be attributed to the Drinkard zone.

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

(13) (12) That Administrative Order MC-1705 should be superseded.

IT IS THEREFORE ORDERED:

(1) That the applicant, Harper Oil Company, is hereby authorized to complete its S. J. Sarkey Well No. 2, located in Unit H of Section 26, Township 21 South, Range 37 East, NMPM, Lea County, New Mexico, in such a manner as to produce oil from the Blanchard Pool through one string of 2 7/8-inch ^{tubing} casing and to produce oil from the Drinkard and Wantz-Abo Pools through a ^{string of tubing} ~~single parallel string of 2 7/8 inch casing~~ commingling in the well-bore the production from the Drinkard and Wantz-Abo Pools.

(2) That the applicant shall complete, operate, and produce said well in accordance with the provisions of Rule 112-A of the Commission Rules and Regulations insofar as said rule is not inconsistent with this order.

(3) That approximately 60% of the future ^{oil} allowable and production shall be attributed to the Drinkard zone and approximately 40% to the Wantz-Abo zone of the subject well until further order of the Commission;

(4) That the commingling in the well-bore authorized by this order shall continue only so long as the commingled production of the two zones does not exceed 80 barrels of oil per day nor 160 barrels of water per day.

that approximately 33% of the future casinghead gas production shall be attributed to the Drinkard zone and approximately 67% to the Wantz-Abo zone of the subject well until further order of the Commission.

have not approved issuance of MC-1705 to the Wantz-Abo zone.

-4-

CASE NO. 4727
Order No. R-

(5) That the maximum amount of gas which may be produced daily from the commingled zones in the subject well shall be determined by multiplying 2,000 by the top unit allowable for the Warty - Abo Pool.

(6) That Administrative Order MC-1705 is hereby superseded.

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

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

CASE 4728: Application of TEXACO
FOR SPECIAL POOL RULES FOR EAST
WEIR-TUBB POOL, LEA COUNTY.

Cont. to page 1