

CASE 5435: MESA PET. CO. FOR A DUAL
COMPLETION, EDDY COUNTY, NEW MEXICO

CASE No.

5435

Application,
Transcripts,
Small Exhibits
ETC.

EXAMINER HEARING

IN THE MATTER OF:

Application of Mesa Petroleum Co. for
a dual completion, Eddy County, New
Mexico.

Case No.
5435

BEFORE: Richard L. Stamets, Examiner.

TRANSCRIPT OF HEARING

A P P E A R A N C E S

For the New Mexico Oil
Conservation Commission:

William Carr, Esq.
Legal Counsel for the
Commission
State Land Office Bldg.
Santa Fe, New Mexico

For the Applicant:

Clarence Hinkle, Esq.
HINKLE, BONDURANT, COX
& EATON
Hinkle Building
Roswell, New Mexico

Don Dent, Esq.
General Counsel for Mesa
Petroleum Company
Amarillo, Texas

I N D E X

PAGE

JAMES L. FARRELL

Direct Examination by Mr. Dent

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Cross Examination by Mr. Stamets

8

E X H I B I T S

Marked

Admitted

Mesa's Exhibits Nos. 1 through 4

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8

MR. STAMETS: Call the next case, 5435.

MR. CARR: Case 5435. Application of Mesa Petroleum Co. for a dual completion, Eddy County, New Mexico.

MR. HINKLE: Mr. Examiner, Clarence Hinkle, Hinkle Bondurant, Cox & Eaton, appearing on behalf of Mesa Petroleum Company. We would like for the record to show that Don Dent, the General Attorney for Mesa, from Amarillo, is associated with us and will put on the Case.

MR. DENT: Mr. Examiner, I'm an attorney for Mesa Petroleum from Amarillo. We have one witness we would like to offer.

MR. STAMETS: Will the Witness stand and be sworn, please.

(Witness sworn.)

JAMES L. FARRELL

called as a witness, having been first duly sworn, was examined and testified as follows:

DIRECT EXAMINATION

BY MR. DENT:

Q Would you please state your name for the record and by whom you are employed and in what capacity?

A James L. Farrell, employed with Mesa Petroleum Company as Operations Manager, Central and Permian Division.

Q Mr. Farrell, have you previously testified before the New Mexico Oil and Gas Conservation Commission?

A No, I have not.

Q For the Examiner and record would you state briefly your educational and professional qualifications?

A I'm a graduate from Texas Tech University in 1954 with a BS Degree in Industrial Engineering; First Lieutenant, Corps of Engineers, 1954 to '56; joined Diamond Shamrock as Production Foreman in 1956 to 1959; started employment with Petroleum Exploration Incorporated of Texas in 1959, which is now Mesa Petroleum, and have been in continuous service with Mesa as Drilling Production Superintendent since that time. I am a registered professional engineer in the State of Texas.

MR. DENT: Mr. Examiner, are Mr. Farrell's qualifications acceptable to the Commission.

MR. STAMETS: Yes, the Witness is considered qualified.

BY MR. DENT:

Q Mr. Farrell, are you familiar with the Application of Mesa for multiple completion of its Nash Unit Well No. 1 in Eddy County?

A Yes, I am.

Q In connection with this Application have you prepared or has there been prepared under your supervision certain exhibits?

A Yes.

Q Will you please refer to Exhibit No. 1 and point out the subject well and state briefly what Mesa's Application covers in this Hearing?

A This is a basic plat showing of Mesa's No. 1 Nash for which application is being presented for dual completion of the well out of the Strawn and Morrow reservoir. The plat indicates that there is no Morrow or Strawn production offsetting the well or the unit.

Q Is there within one mile of the Nash Unit Well an offset producer which was given notice of this Application?

A Yes. The Texaco Remunda Basin is a Wolfcamp well in Section 24, Township 23 South, Range 29 East; that is about a one-mile offset to the south.

Q You have testified that you propose to dual a Morrow gas and Strawn gas well. Refer please to Exhibit No. 2 and explain to the Commission what this Exhibit shows.

A This Exhibit is a porosity gamma ray strip log

showing a portion of the hole in which the Strawn carbonate exists and the proposed perforations.

Q Have you prepared a similar exhibit covering the Morrow section?

A Yes, sir.

Q Refer to what has been marked Exhibit No. 3 and again explain to the Commission what you have shown there.

A This is again an open-hole gamma ray porosity log in the Morrow portion of the Nash Unit No. 1 showing the existing Morrow perforations.

Q During the drilling operations of this well and the testing of these two zones did you determine or obtain some pressure data?

A Yes we did.

Q What kind of pressures are we talking about in this well?

A The bottomhole pressure in the Strawn Formation will approximate 7329 psig. The bottomhole pressure in the Morrow interval, taking those drill-stem tests, will approximate 5900 pounds.

Q Have you prepared an exhibit which shows the well-bore itself and the mechanical installation as proposed

for the Nash Unit Well?

A Yes, I have.

Q I believe this has been marked as Mesa's Exhibit 4 and would you refer to that Exhibit and explain to the Commission how Mesa proposes to dually complete this well?

A This is a schematic drawing showing the pipe, cementing program on the existing well; it indicates the Morrow perforations and the perforations from which the Strawn is to be produced. The primary objective of this schematic is to show the downhole packer arrangement that will completely isolate the Strawn and the Morrow perforations. The downhole assembly will be placed in the well in a manner that will allow the Morrow production to be produced in the annulus between the 2-7/8-inch tubing and the 7-5/8ths intermediate string. The Strawn perforations, by means of the cross-over, will be produced through the tubing string.

Q Is the proposed installation of the cross-over tool and the packers concept as proposed a generally accepted procedure in the industry today?

A Yes, it is.

Q Mr. Farrell, will the proposed dual gas well completion permit the safe and efficient production of gas

from the Strawn and Morrow Formations without communication between those two zones?

A Yes.

Q After you have completed your dual completion do you intend to take an adequate packer leakage test?

A Yes.

Q If you are requested will you furnish the results of that test to the Commission?

A Yes.

MR. DENT: Mr. Examiner, we have no further direct evidence at this time. I would like to offer for the record Mesa's Exhibits 1, 2, 3, and 4.

MR. STAMETS: Exhibits 1 through 4 will be admitted.

(Whereupon, Mesa's Exhibits
Nos. 1, 2, 3, and 4 were admitted
into evidence.)

CROSS EXAMINATION

BY MR. STAMETS:

Q Mr. Farrell, does the Morrow Formation produce any liquids?

A It will be virtually a dry, productive string. We, during completion, didn't encounter an exhorbitant

FAKRELL-CROSS

amount of fluids. That is the main reason we selected to use that produced gas through the annulus.

Q Did you run a multi-point test on the Morrow Zone?

A Yes, we did.

Q How much gas and liquids did it produce during the test?

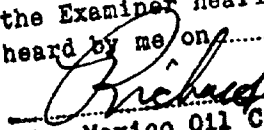
A The overflow potention was 3,909,000 -- I think if I could go to my brief I do have the 4-point test, I don't know about the liquids. The gas liquid ratio indicates on the multi-point and one-point back-pressure test, "too small to measure."

MR. STAMETS: Are there any other questions of the Witness? He may be excused. Anything further in this Case? We will take the Case under advisement.

STATE OF NEW MEXICO)
COUNTY OF SANTA FE) SS.

I, RICHARD L. NYE, Court Reporter, do hereby certify that the foregoing and attached Transcript of Hearing before the New Mexico Oil Conservation Commission was reported by me, and the same is a true and correct record of the said proceedings, to the best of my knowledge, skill and ability.


RICHARD L. NYE, Court Reporter

I do hereby certify that the foregoing is a complete record of the proceedings in the Examiner hearing of Case No. 5435 heard by me on 3-5-54, 1954.

Richard L. Nye, Examiner
New Mexico Oil Conservation Commission



OIL CONSERVATION COMMISSION

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

March 11, 1975

I. R. TRUJILLO
CHAIRMAN

LAND COMMISSIONER
PHIL R. LUCERO
MEMBER

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

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

Re: CASE NO. 5435
ORDER NO. R-4982

Applicant:
Mesa Petroleum 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.

A. L. PORTER, Jr.
Secretary-Director

ALP/ir

Copy of order also sent to:

Hobbs OCC X
Artesia OCC X
Aztec OCC

Other Mr. Don Dent, Mesa Petroleum Co., Amarillo, Texas

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. 5435
Order No. R-4982

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

ORDER OF THE COMMISSION

BY THE COMMISSION:

This cause came on for hearing at 9 o'clock a.m. on March 5, 1975, at Santa Fe, New Mexico, before Examiner Richard L. Stamets.

NOW, on this 11th day of March, 1975, 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, Mesa Petroleum Co., seeks authority to complete its Nash Unit Well No. 1, located in Unit H of Section 13, Township 23 South, Range 29 East, NMPM, Eddy County, New Mexico, as a dual completion (conventional) to produce gas from the Strawn formation through tubing and gas from the Morrow formation through the casing-tubing annulus by means of a cross-over assembly with separation of the zones by means of packers set at approximately 12,075 feet and 13,100 feet.

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

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

IT IS THEREFORE ORDERED:

(1) That the applicant, Mesa Petroleum Co., is hereby authorized to complete its Nash Unit Well No. 1, located in Unit H of Section 13, Township 23 South, Range 29 East, NMPM, Eddy County, New Mexico, as a dual completion (conventional) to produce gas from the Strawn formation through 2 7/8-inch

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Case No. 5435
Order No. R-4982

tubing and gas from the Morrow formation through the casing-tubing annulus by means of a cross-over assembly set at approximately 12,075 feet with separation of the zones by means of packers set at approximately 12,075 feet and 13,100 feet;

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

PROVIDED FURTHER, that the applicant shall take packer-leakage tests upon completion and annually thereafter during the Annual Gas Well Shut-In Pressure Test Period for gas pools in Southeastern New Mexico.

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

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

STATE OF NEW MEXICO
OIL CONSERVATION COMMISSION

I. R. TRUJILLO, Chairman



Phil R. Lucero

PHIL R. LUCERO, Member

A. L. Porter, Jr.

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

S E A L

dr/

Dockets Nos. 7-75 and 8-75 are tentatively set for hearing on March 19 and April 2, 1975. Applications for hearing must be filed at least 22 days in advance of hearing date.

DOCKET: EXAMINER HEARING - WEDNESDAY - MARCH 5, 1975

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

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

CASE 5425: (Continued and Readvertised)

Application of Continental Oil Company for an unorthodox location and simultaneous dedication, Lea County, New Mexico. Applicant, in the above-styled cause, seeks approval for the simultaneous dedication of a non-standard 480-acre gas proration unit, comprising the W/2 of Section 13 and the E/2 E/2 of Section 14, Township 21 South, Range 36 East, Eumont Gas Pool, Lea County, New Mexico, to its Lockhart B Wells Nos. 4 and 8, located at unorthodox locations in Units H and P, respectively, of Section 14, and to its Lockhart B Well No. 7, at an unorthodox location in Unit D of said Section 13.

CASE 5408: (Continued from the February 5, 1975, Examiner Hearing)

In the matter of the hearing called by the Oil Conservation Commission on its own motion to permit W. E. Medlock and Reliance Insurance Company and all other interested parties to appear and show cause why the Queen Ridge No. 1 Well located in Unit M of Section 36, Township 10 South, Range 26 East, Chaves County, New Mexico, should not be plugged and abandoned in accordance with a Commission-approved plugging program.

CASE 5414: (Continued and Readvertised)

Application of Continental Oil Company for an unorthodox gas well location and simultaneous dedication, Lea County, New Mexico. Applicant, in the above-styled cause, seeks approval of a non-standard 360-acre gas proration unit comprising the SE/4 and E/2 SW/4 of Section 28 and the N/2 NE/4 and NE/4 NW/4 of Section 33, both in Township 20 South, Range 37 East, Eumont Gas Pool, Lea County, New Mexico, to be simultaneously dedicated to its Meyer B-28 A Com Acct. 2 Wells Nos. 2 and 3, located, respectively, in Unit O of said Section 28 and in Unit C of said Section 33.

CASE 5429: In the matter of the hearing called by the Oil Conservation Commission on its own motion to permit Charles M. Goad and United States Fidelity & Guaranty Company and all other interested parties to appear and show cause why the Charles M. Goad, State No. 1 Well located in Unit M of Section 28, Township 2 South, Range 26 East, De Baca County, New Mexico, should not be plugged and abandoned in accordance with a Commission-approved plugging program.

- CASE 5431: Application of David C. Collier for an unorthodox well location, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks approval for the unorthodox location of his Kersey Well No. 1-Y, to be drilled 1980 feet from the South line and 2330 feet from the West line of Section 33, Township 18 South, Range 28 East, Artesia Pool, Eddy County, New Mexico.
- CASE 5432: Application of American Quasar Petroleum Co. of New Mexico for a unit agreement, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks approval for the Robinia Draw Unit Area, comprising 4,739 acres, more or less, of State and Federal lands in Townships 22 and 23 South, Ranges 23 and 24 East, Eddy County, New Mexico.
- CASE 5433: Application of Southern Union Gas Company for suspension and amendment of certain provisions of Rules 14(A), 15(A), and 15(B), of the General Rules and Regulations for the prorated gas pools of Southeastern New Mexico as applied to the Indian Basin-Upper Pennsylvanian Gas Pool, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks suspension for a period of one year from April 1, 1975, of those provisions of Rules 14(A), 15(A), and 15(B), of the General Rules and Regulations for the prorated gas pools of Southeastern New Mexico promulgated by Order No. R-1670, as amended, that provide for the cancellation of underproduction and the shutting-in of overproduced wells as applied to the Indian Basin-Upper Pennsylvanian Gas Pool, Eddy County, New Mexico.
- CASE 5434: Application of Amoco Production Company for a pilot pressure maintenance project, San Juan County, New Mexico. Applicant, in the above-styled cause, seeks authority to institute a pilot pressure maintenance project by the injection of gas through its Navajo Tribal "U" Wells Nos. 3 and/or 8, located, respectively, in Units M and F of Section 16, Township 26 North, Range 18 West, Tocito Dome-Pennsylvanian "D" Oil Pool, San Juan County, New Mexico.
- CASE 5435: Application of Mesa Petroleum Co. for a dual completion, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks approval for the dual completion (conventional) of its Nash Unit Well No. 1, located in Unit H of Section 13, Township 23 South, Range 29 East, Eddy County, New Mexico, in such a manner as to produce gas from the Strawn formation through tubing and gas from the Morrow formation through the casing-tubing annulus by means of a cross-over assembly.
- CASE 5436: Application of William G. Ross for compulsory pooling and an unorthodox gas well location, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks an order pooling all mineral interests in formations of Pennsylvanian age or older underlying the E/2 of Section 3, Township 18 South, Range 26 East, Atoka-Pennsylvanian Gas Pool, Eddy County, New Mexico, to be dedicated to a well to be drilled at an unorthodox location 660 feet from the South and East lines, or in the alternative 990 feet from the South line and 660 feet from the East line of said Section 3. Also to be considered will be the cost of drilling and completing said well and the allocation of such costs as well as actual operating costs and charges for supervision. Also to be considered is the designation of the applicant as the operator of the well and a charge for the risk involved in drilling said well.

CASE 5437: Application of Atlantic Richfield Company for two unorthodox locations and simultaneous dedication, Lea County, New Mexico. Applicant, in the above-styled cause, seeks approval for the simultaneous dedication of a standard 640-acre gas proration unit comprising all of Section 14, Township 22 South, Range 36 East, Jalmat Gas Pool, Lea County, New Mexico, to its McDonald State WN Wells Nos. 11 and 27, located, respectively, in Units D and O of said Section 14.

CASE 5430: Southeastern New Mexico nomenclature case calling for the creation, abolishment, extension and contraction of certain pools in Eddy, Lea and Roosevelt Counties, New Mexico:

(a) CREATE A new pool in Eddy County, New Mexico, classified as a gas pool for Atoka production and designated as the Avalon-Atoka Gas Pool. The discovery well is the Atlantic Richfield Company State BR Well No. 1, located in Unit K of Section 16, Township 21 South, Range 26 East, NMPM. Said pool would comprise:

TOWNSHIP 21 SOUTH, RANGE 26 EAST, NMPM
SECTION 16: S/2

(b) CREATE A new pool in Lea County, New Mexico, classified as an oil pool for Wolfcamp production and designated as the Southeast Bagley-Wolfcamp Pool. The discovery well is the Anderson Oil & Gas Company, Inc. Hess State Well No. 1 located in Unit L of Section 34, Township 11 South, Range 33 East, NMPM. Said pool would comprise:

TOWNSHIP 11 SOUTH, RANGE 33 EAST, NMPM
SECTION 34: SW/4

(c) CREATE A new pool in Lea County, New Mexico, classified as a gas pool for Atoka production and designated as the South Flying "M"-Atoka Gas Pool. The discovery well is the Phillips Petroleum Company Marg "A" Com Well No. 1 located in Unit K of Section 25, Township 9 South, Range 32 East, NMPM. Said pool would comprise:

TOWNSHIP 9 SOUTH, RANGE 32 EAST, NMPM
SECTION 25: S/2

(d) CREATE A new pool in Lea County, New Mexico, classified as a gas pool for Morrow production and designated as the North Pearl-Morrow Gas Pool. The discovery well is the Dorchester Exploration, Inc. Henry Record Well No. 1, located in Unit I of Section 26, Township 19 South, Range 35 East, NMPM. Said pool would comprise:

TOWNSHIP 19 SOUTH, RANGE 35 EAST, NMPM
SECTION 26: S/2

(e) ABOLISH the Arrowhead-Drinkard Pool in Lea County, New Mexico, described as:

TOWNSHIP 21 SOUTH, RANGE 36 EAST, NMPM
SECTION 36: SW/4

(f) EXTEND the Drinkard Pool in Lea County, New Mexico, to include therein:

TOWNSHIP 21 SOUTH, RANGE 36 EAST, NMPM
SECTION 36: SE/4

TOWNSHIP 21 SOUTH, RANGE 37 EAST, NMPM
SECTION 31: SW/4

(g) CONTRACT the vertical limits of the South Flying "M"-Pennsylvanian Pool in Lea County, New Mexico, to include only the Bough formations and redesignate said South Flying "M"-Pennsylvanian Pool as the South Flying "M"-Bough Pool.

(h) EXTEND the Atoka-Pennsylvanian Gas Pool in Eddy County, New Mexico, to include therein:

TOWNSHIP 18 SOUTH, RANGE 26 EAST, NMPM
SECTION 1: E/2
SECTION 12: E/2

(i) EXTEND the Blinebry Oil and Gas Pool in Lea County, New Mexico, to include therein:

TOWNSHIP 21 SOUTH, RANGE 36 EAST, NMPM
SECTION 36: SE/4

(j) EXTEND the Bluitt-Wolfcamp Gas Pool in Roosevelt County, New Mexico, to include therein:

TOWNSHIP 7 SOUTH, RANGE 37 EAST, NMPM
SECTION 34: SW/4

TOWNSHIP 8 SOUTH, RANGE 37 EAST, NMPM
SECTION 3: W/2
SECTION 10: NW/4

(k) EXTEND the Burton Flat-Morrow Gas Pool in Eddy County, New Mexico, to include therein:

TOWNSHIP 20 SOUTH, RANGE 28 EAST, NMPM
SECTION 15: All
SECTION 28: All

(l) EXTEND the Cemetary-Morrow Gas Pool in Eddy County, New Mexico, to include therein:

TOWNSHIP 20 SOUTH, RANGE 25 EAST, NMPM
SECTION 7: E/2
SECTION 21: W/2

(m) EXTEND the South Empire-Morrow Gas Pool in Eddy County, New Mexico, to include therein:

TOWNSHIP 17 SOUTH, RANGE 29 EAST, NMPM
SECTION 31: N/2

(n) EXTEND the Forty Niner Ridge-Morrow Gas Pool in Eddy County, New Mexico, to include therein:

TOWNSHIP 23 SOUTH, RANGE 30 EAST, NMPM
SECTION 21: N/2

(o) EXTEND the Kennedy Farms-Morrow Gas Pool in Eddy County, New Mexico, to include therein:

TOWNSHIP 17 SOUTH, RANGE 26 EAST, NMPM
SECTION 27: N/2

(p) EXTEND the La Rica-Morrow Gas Pool in Lea County, New Mexico, to include therein:

TOWNSHIP 18 SOUTH, RANGE 34 EAST, NMPM
SECTION 33: All

(q) EXTEND the Red Lake-Pennsylvanian Gas Pool in Eddy County, New Mexico, to include therein:

TOWNSHIP 18 SOUTH, RANGE 27 EAST, NMPM
SECTION 18: S/2

(r) EXTEND the Todd Wolfcamp Pool in Roosevelt County, New Mexico, to include therein:

TOWNSHIP 7 SOUTH, RANGE 35 EAST, NMPM
SECTION 27: NE/4

(s) EXTEND the Tubb Gas Pool in Lea County, New Mexico, to include therein:

TOWNSHIP 21 SOUTH, RANGE 37 EAST, NMPM
SECTION 2: SE/4

CARL ULVOG

Dan: I presume this
will have to go for a
hearing, although there is
a job of straw-marrow
deals in Eddy Co.

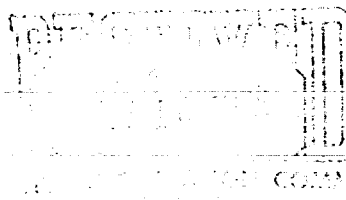
There just aren't any in
vicinity of this wildcat.

February 6, 1975

APPLICATION OF MESA PETROLEUM CO.
TO MULTIPLE COMPLETE THE NASH UNIT
WELL NUMBER 1, LOCATED IN UNIT LETTER
H, 1980' FNL & 660' FEL OF SECTION 13, TOWN-
SHIP 23S, RANGE 29E OF EDDY COUNTY, NEW
MEXICO IN ACCORDANCE WITH RULE 112-A.

Det for hearing

Case 5435



Mesa Petroleum Co. hereby makes application for multiple completion of the Nash Unit Well No. 1-H-13-23S-29E in Eddy County, New Mexico in accordance by provisions of Rule 112-A. Completion zones are the Morrow and Strawn with tops at 13,175' and 12,138', respectively.

Form C-107, Application for Multiple Completion, is attached, together with a diagrammatic sketch of downhole mechanics. The plat depicts the well and the unit boundary. Texaco is the offset operator to the south.

Prior to the multiple completion of the Strawn and Morrow zones, the casing will again be pressure tested to determine that no leaks exist. A packer leakage test will be run after completion to verify that commingling of hydrocarbons does not take place.

Two portions of a strip log are included. As indicated on the diagrammatic sketch, the Morrow zone (lower) will be crossed over into the annulus while the Strawn zone (upper) with anticipated larger quantity of liquid hydrocarbons, will be produced up the tubing.

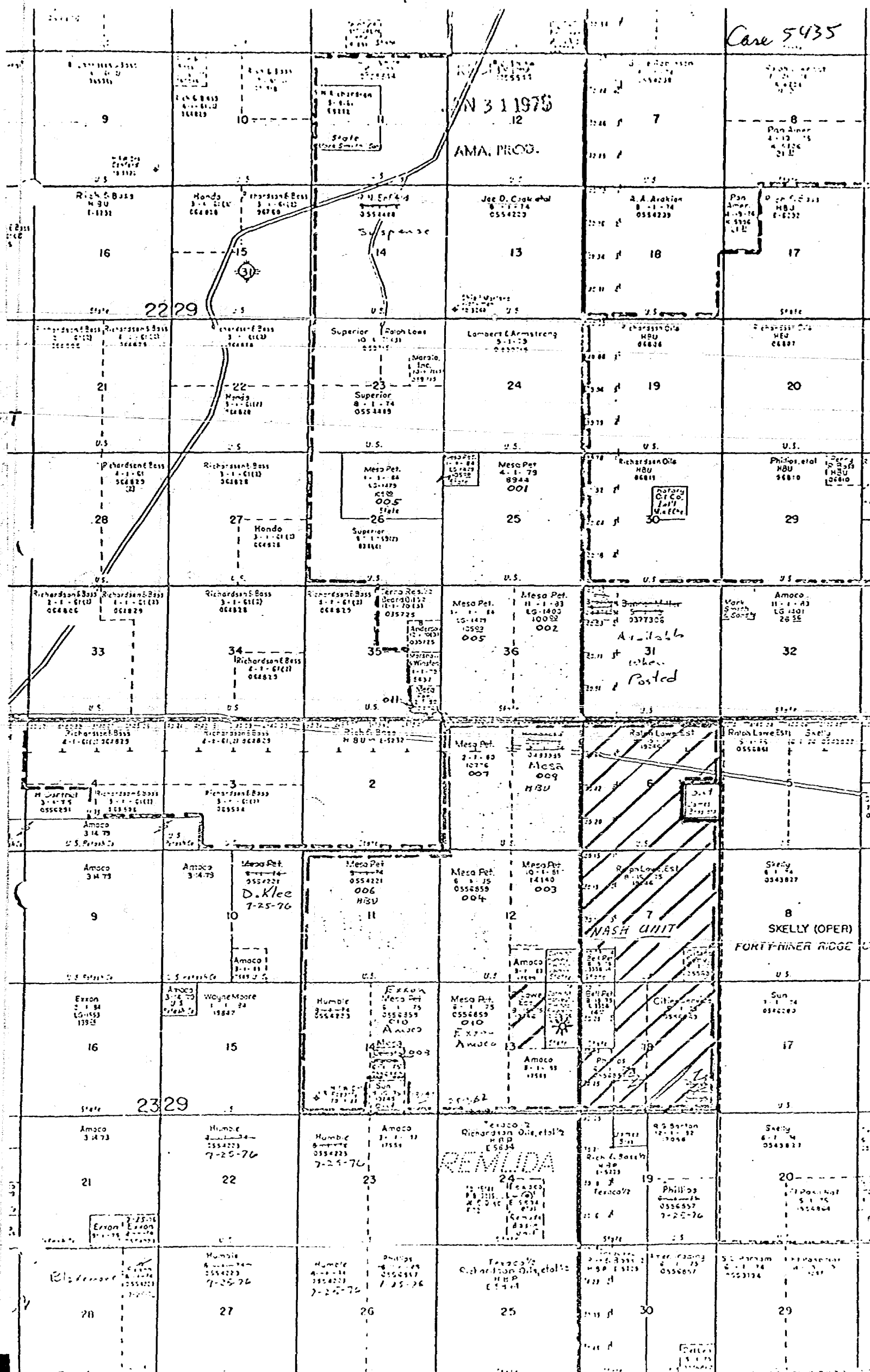
Michael P. Houston

Michael P. Houston

*XC: 3-NMOCC
1-Texaco
1-Midland*

DOCKET MAILED

Date 2-20-75



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

Care 5435
Form C-107
5-1-61

Operator Mesa Petroleum Co.		County Eddy	Date 2-6-75
Address P. O. Box 2009, Amarillo, TX 79105		Lease Nash Unit	Well No. 1
Location of Well H	Unit 13	Township 23S	Range 29E

1. Has the New Mexico Oil Conservation Commission heretofore authorized the multiple completion of a well in these same pools or in the same zones within one mile of the subject well? YES _____ NO X
2. If answer is yes, identify one such instance: Order No. _____ ; Operator Lease, and Well No.: _____

3. The following facts are submitted:	Upper Zone	Intermediate Zone	Lower Zone
a. Name of Pool and Formation	Strawn		Morrow
b. Top and Bottom of Pay Section (Perforations)	12,138' - 12,150'		13,175' - 13,609'
c. Type of production (Oil or Gas)	GAS		GAS
d. Method of Production (Flowing or Artificial Lift)	Flowing		Flowing

4. The following are attached. (Please check YES or NO)

- | | | |
|-------------------------------------|--------------------------|---|
| Yes | No | |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | a. Diagrammatic Sketch of the Multiple Completion, showing all casing strings, including diameters and setting depths, centralizers and/or turbolizers and location thereof, quantities used and top of cement, perforated intervals, tubing strings, including diameters and setting depth, location and type of packers and side door chokes, and such other information as may be pertinent. |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | b. Plat showing the location of all wells on applicant's lease, all offset wells on offset leases, and the names and addresses of operators of all leases offsetting applicant's lease. |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | c. Waivers consenting to such multiple completion from each offset operator, or in lieu thereof, evidence that said offset operators have been furnished copies of the application. |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | d. Electrical log of the well or other acceptable log with tops and bottoms of producing zones and intervals of perforation indicated thereon. (If such log is not available at the time application is filed it shall be submitted as provided by Rule 112-A.) |

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

Texaco, Inc. Box 3109, Midland, Texas 79701

6. Were all operators listed in Item 5 above notified and furnished a copy of this application? YES X NO _____. If answer is yes, give date of such notification **February 6, 1975**.

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

Michael P. Houston
Signature

*Should waivers from all offset operators not accompany an application for administrative approval, the New Mexico Oil Conservation Commission will hold the application for a period of twenty (20) days from date of receipt by the Commission's Santa Fe office. If, after said twenty-day period, no protest nor request for hearing is received by the Santa Fe office, the application will then be processed.

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

Nash Unit #1
1980' FNL & 660' FEL
Sec. 13, T23S, R29E
Eddy Co., New Mexico

10 3/4" cmt. w/1113 sx cmt,
2% lo dense w/5# gilsonite +
1/4# celloflakes followed by
200 sx Class "C". Centralizers
on 1st, 3rd, & 5th collars.
Cemt did not circ. Dumped 14
yards of cmt and filled to
surface.

7 5/8". Installed centralizers
at mid-shoe jt. & on top of jt.
#1, 3, 5, & 7. Installed DV tool @
6866' w/2 cmt baskets above.
Cmt 1st stage w/600 sx HLW +
0.6% Halad 22 + 3# salt + 1/4#
flocele followed by 200 sx Class
H + 3# salt + 1/4# flocele + 0.8%
Halad 22. Opened DV tool &
cmt w/550 sx HLW + 0.6% Halad
22 + 3# gilsonite + 3# salt + 1/4#
flocele, followed by 100 sx Class
H + 3# salt + 1/4# flocele + 0.8%
Halad 22. Ran temperature
survey, top of cmt @ 3920'.

OTIS MCH PACKER 12,075'

STRAWN PERFS. 12,138'-150'

OTIS "PERMA LACH PACKER 13,100'

MORROW PERFS. 13,175'-184'-
13,334'-339' 13,341'-352'
13,434'-442' 13,607'-609'

OTIS "WS" PACKER AT 13,695

MORROW PERFS. 13,751'-61'
13,764'-68' 13,770'-76'

FLOAT COLLAR AT 13,800'

16" 65# N-40 ST&C AT 300'
w/225 sx TLW + 5# gilsonite +
1/4# celloflakes then tailed in w/
100 sx Class C w/2% cc. Topped out
with 50 sx Class C w/2% cc. Cnt.
fell back 8' below ground level.
Topped out with pea gravel.

10 3/4" 40.5# K-55 ST&C
AT 3325'

7 5/8" 26.4# -39.0# N-80
LT&C AT 10,908'

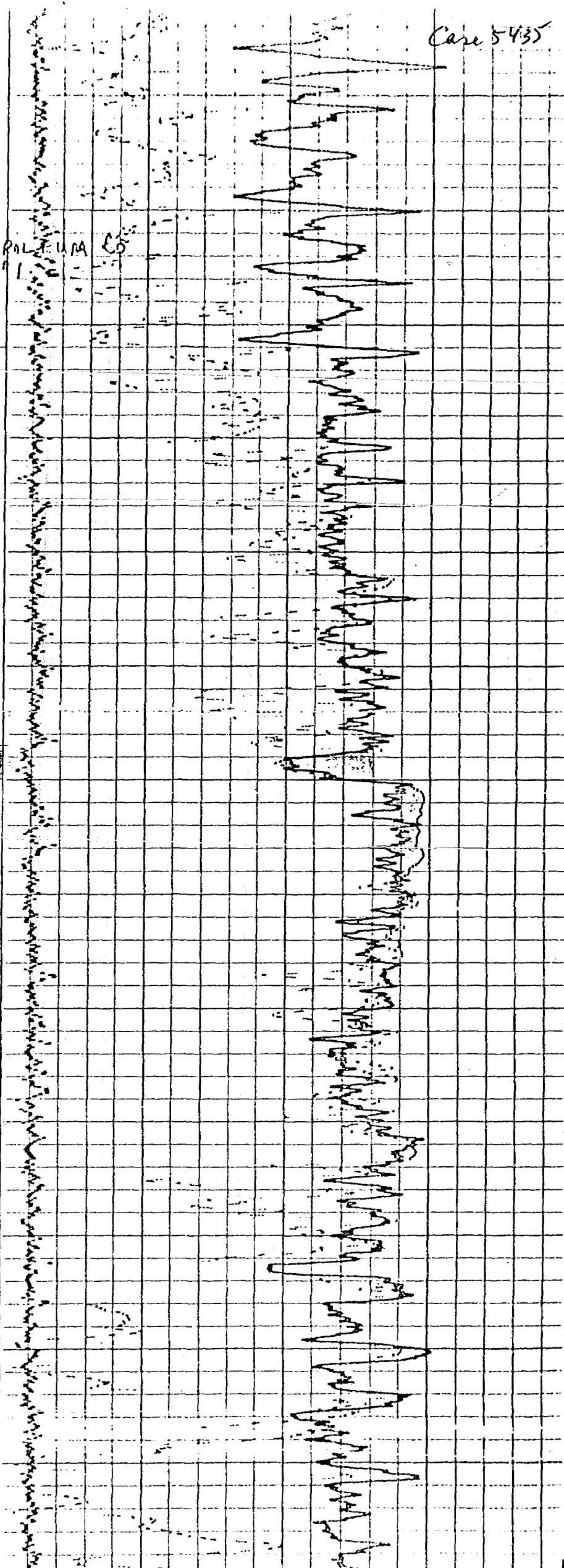
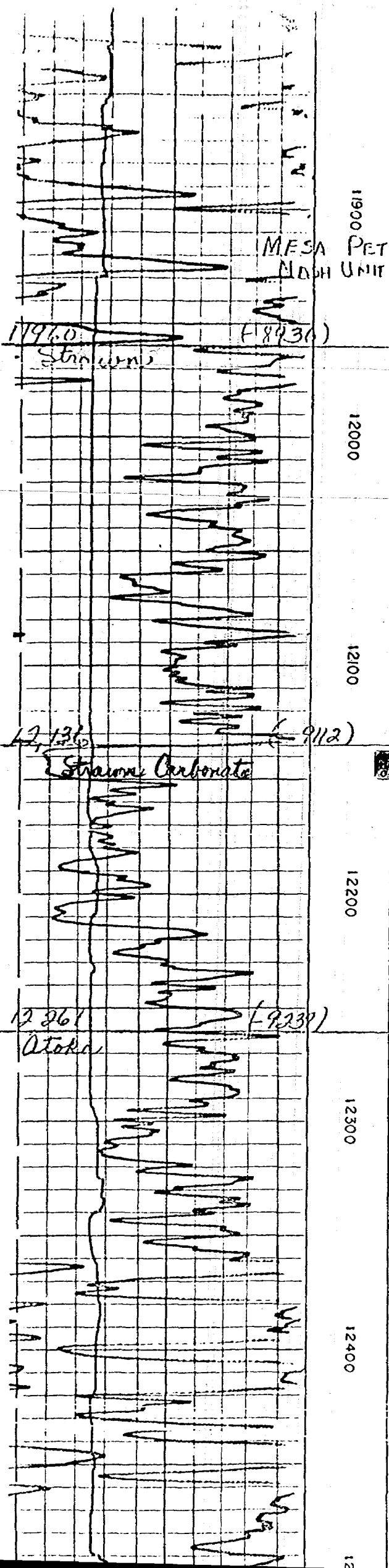
27/8" 7.9# C-75 HYDRIL
PH-6 TBG.

5" 23.20# C-75 HYDRIL SFJP
liner @ 13,845' w/650 sx Class H w/
0.8% Halad 22 + 3# KCL sx. Cmt circ.
above top of liner. Drilled cmt from
10,086' to top of liner @ 10,551'.

TOP OF CEMENT 13,675'

T.D. 13,950'

Case 5435



Core 5435

13054.5

(10030)

Thomson

MESA PETROLEUM CO.
NASH UNIT #1

13000

13100

13200

13300

13326

(10300)

Thomson

B-2

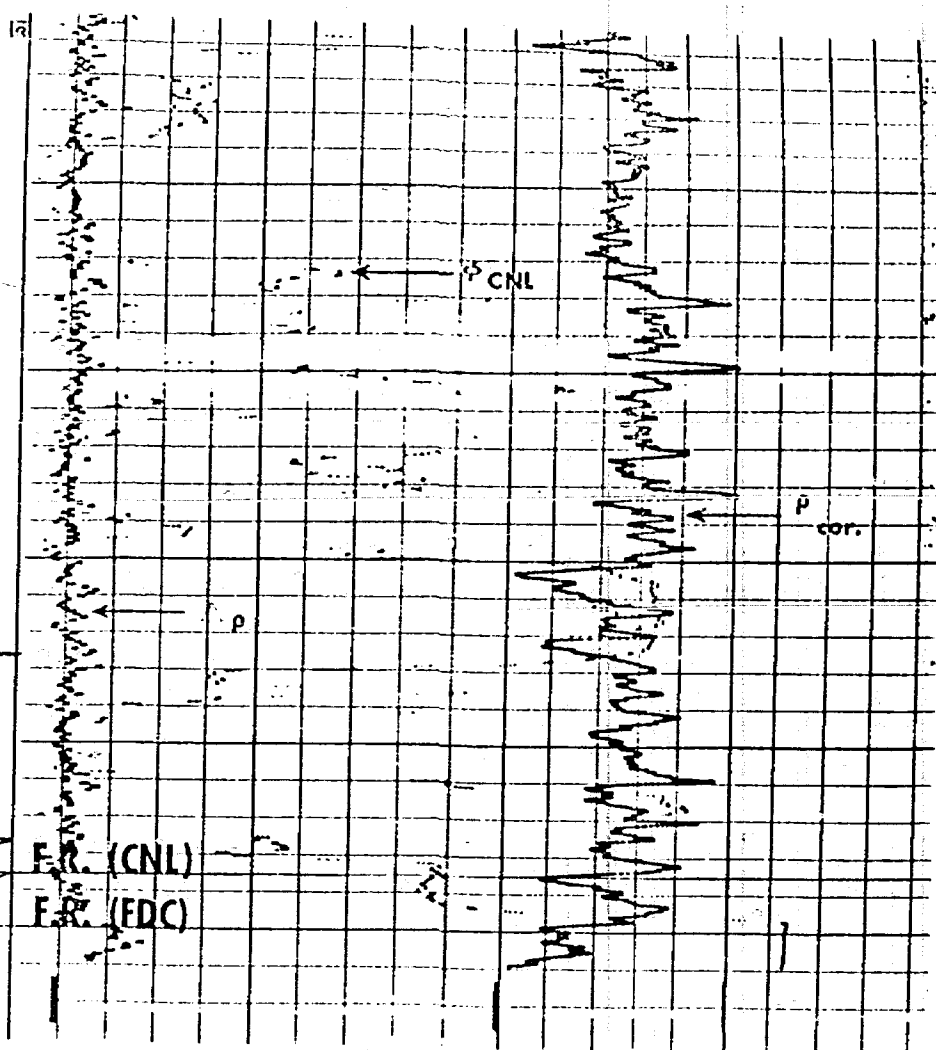
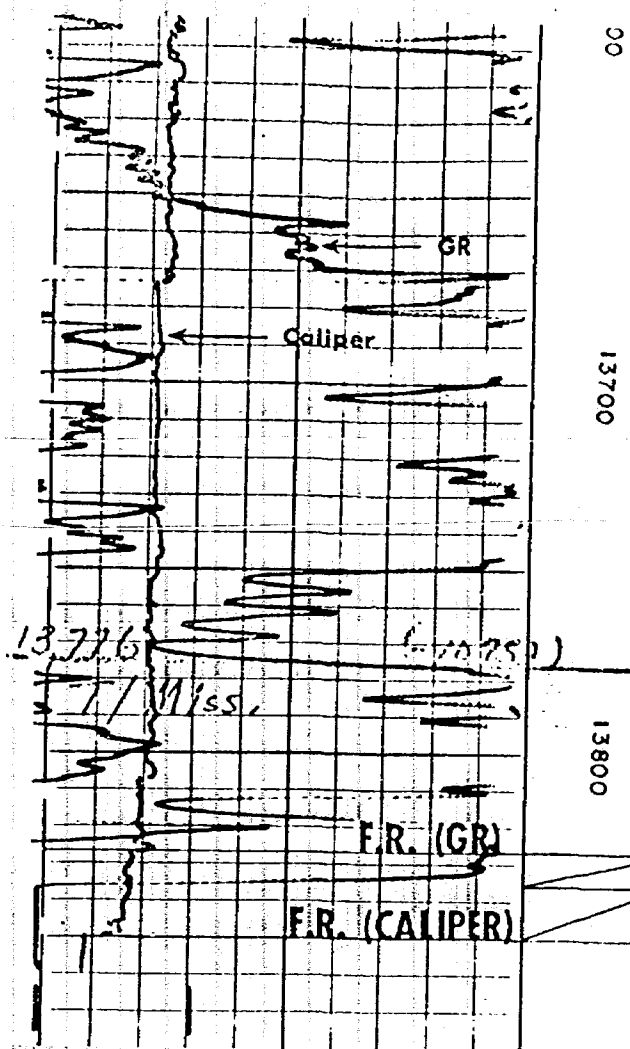
DST #6 13324-1185

13400

13500

136

Thomson B-2 SS



DRAFT

dr/

BEFORE THE OIL CONSERVATION COMMISSION
OF THE STATE OF NEW MEXICO

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

CASE No. 5435

Order No. R- 4982

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

ORDER OF THE COMMISSION

BY THE COMMISSION:

This cause came on for hearing at 9 o'clock a.m. on
March 5, 1965, at Santa Fe, New Mexico, before Examiner
Richard L. Stamets.

NOW, on this day of March, 1965, 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, Mesa Petroleum Co.,
seeks authority to complete its Nash Unit Well No. 1
~~XXXXXX~~, located in Unit H of Section 13, Township
23 ~~XXXX~~ South, Range 29 ~~XXXX~~ East, NMPM, Eddy County, New
Mexico, as a dual completion ~~(conventional)~~ (conventional) to produce gas
~~XXXXXX~~
from the Strawn formation ~~XXXX~~ through tubing
and gas from the Morrow formation through the casing-tubing annulus by
means of a cross-over assembly with separation of the

zones by means of a packer set at
approximately 12,075 feet and 12,100
feet.

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

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

IT IS THEREFORE ORDERED:

(1) That the applicant, Mesa Petroleum Co. is hereby authorized to complete its Nash Unit Well No. 1 ~~Well No. 1~~, located in Unit H of Section 13, Township 23 ~~South~~ ^{North}, Range 29 ~~East~~ ^{West}, NMPM, Eddy County, New Mexico, as a dual completion ^(conventional) ~~(combination)~~ to produce gas ~~(oil)~~ from the Strawn formation ~~from the Morrow formation~~ through ^{2 7/8 inch} ~~8 1/2 inch~~ tubing and gas from the Morrow formation through the casing-tubing annulus by means of a cross-over assembly set at approximately 12,075 feet with separation of the zones by means of packers set at approximately 12,075 feet and 13,100 feet.

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

PROVIDED FURTHER, that the applicant shall take packer-leakage ^{zone segregation} tests upon completion and annually thereafter during the Annual Gas Well Shut-In Pressure ^{gas pools in} Gas-Oil Ratio Test Period for the Southeastern New Mexico pool. Deliverability

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

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