

CASE 7247: GETTY OIL COMPANY FOR A GAS
WELL CLASSIFICATION, LEA COUNTY, NEW
MEXICO

(3)

B

Case No.

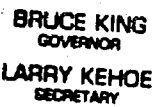
7247

Application

Transcripts

Small Exhibits

ETC



STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION

July 20, 1981

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

Mr. William F. Carr
Campbell, Byrd & Black
Attorneys at Law
Post Office Box 2208
Santa Fe, New Mexico 87501

Re: CASE NO. 7247
ORDER NO. R-6725

Applicant:

Getty Oil Company

Dear Sir:

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

Yours very truly,

Yours very truly,

JOE D. RAMEY
Director

JDR/fd

Copy of order also sent to:

Hobbs OCD _____ X
Artesia OCD _____ X
Aztec OCD _____

Other

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION

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

CASE NO. 7247
Order No. R-6725
NOMENCLATURE

APPLICATION OF GETTY OIL COMPANY
FOR A GAS WELL CLASSIFICATION,
LEA COUNTY, NEW MEXICO.

ORDER OF THE DIVISION

BY THE DIVISION:

This cause came on for hearing at 9 a.m. on May 6, 1981,
at Santa Fe, New Mexico, before Examiner Richard L. Stamets.

NOW, on this 16th day of July, 1981, 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, Getty Oil Company, seeks the
reclassification of its State 29-J Well No. 1, an oil well
located in Unit J of Section 29, Township 24 South, Range 33
East, as a retrograde gas condensate well with the S/2 of said
Section 29 to be dedicated to the well.

(3) That said State 29-J Well No. 1 was plugged back and
completed in the Wolfcamp formation on November 3, 1980.

(4) That based upon the completion gas-liquid ratio, the
Division classified said well as an oil well and created the
East Triste Draw-Wolfcamp Pool, therefor, by its Order No.
R-6623, effective April 1, 1981.

(5) That the evidence presented establishes that the
State 29-J Well No. 1 produces from a retrograde gas condensate
reservoir.

-2-

Case No. 7247

Order No. R-6725

(6) That said East Triste Draw-Wolfcamp Pool should be redesignated as a gas reservoir and extended to include the entire S/2 of said Section 29.

(7) That approval of the application and redesignation of said pool will not cause waste nor violate correlative rights.

IT IS THEREFORE ORDERED:

(1) That the East Triste Draw-Wolfcamp Pool as previously defined and described is hereby redesignated as a gas pool rather than an oil pool.

(2) That said East Triste Draw-Wolfcamp Pool is hereby extended to include therein the SW/4 of Section 29, Township 24 South, Range 33 East, NMPM, Lea County, New Mexico.

(3) That the effective date of this order and the redesignation and extension included therein shall be June 1, 1981.

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

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

STATE OF NEW MEXICO
OIL CONSERVATION DIVISION


JOE D. RAMEY
Director


S E A L

fd/

BEFORE EXAMINER STAMETS
OIL CONSERVATION DIVISION

GETTY EXHIBIT NO. 1

CASE NO. 7247

Submitted by TERRY

Hearing Date 5/6/81

YOAKUM

LEA

HOBBS

GAINES

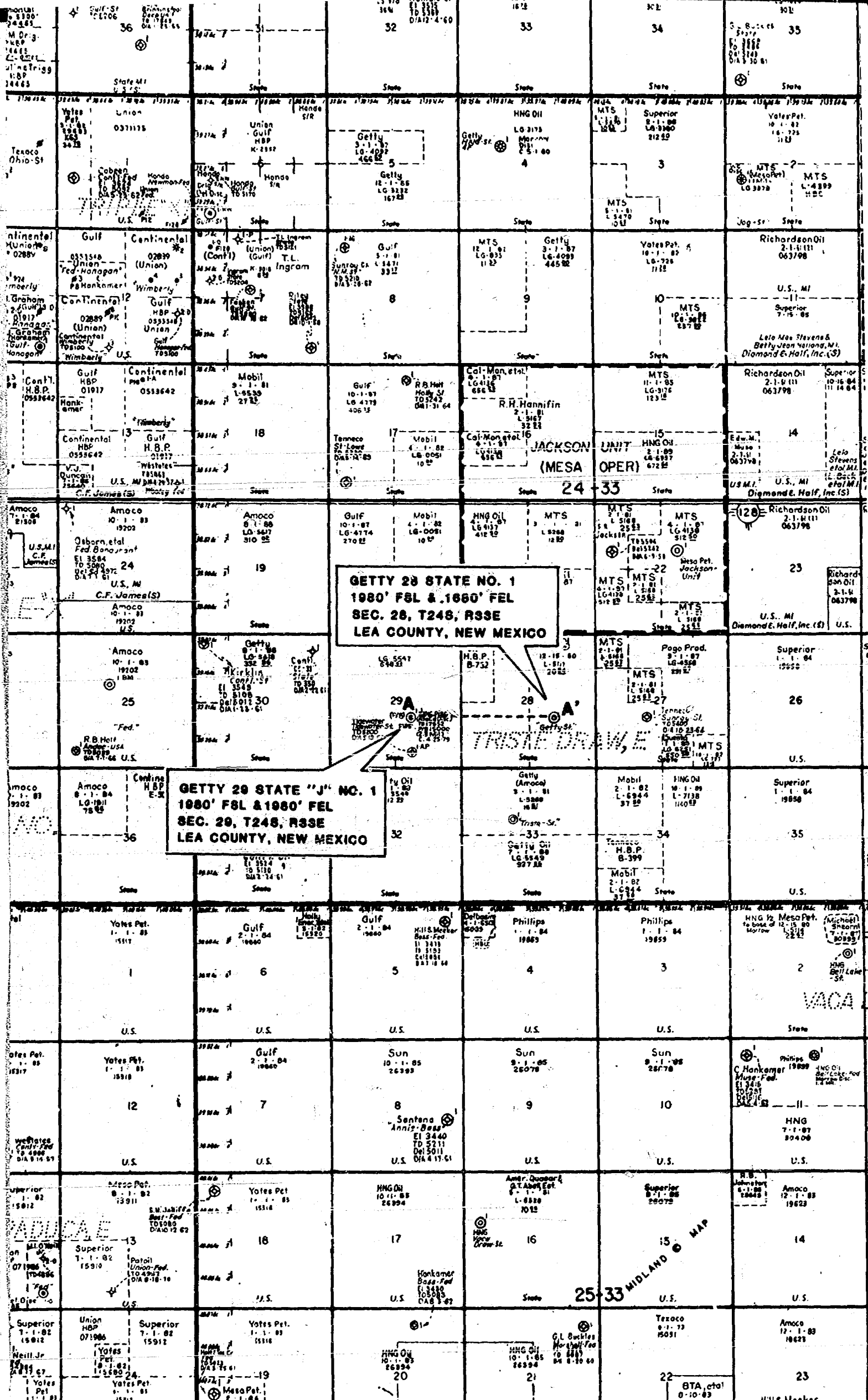
EUNICE

EAST TRISTE DRAW
(WOLFCAMP) FIELD

JAL

ANDREW

GETTY OIL COMPANY
MIDLAND DISTRICT
INDEX MAP



GETTY 28 STATE NO. 1
1980' FSL & 1660' FEL
SEC. 28, T24S, R33E
LEA COUNTY, NEW MEXICO

GETTY 29 STATE "J" NO. 1
1980' FSL & 1660' FEL
SEC. 29, T24S, R33E
LEA COUNTY, NEW MEXICO

TRISTE DRAW, E.

VACA

25-33 MIDLAND & MAP

BEFORE EXAMINER STAMETS
OIL CONSERVATION DIVISION
GETTY EXHIBIT NO. 2
CASE NO. 7247
Submitted by TERRY
Hearing Date 5/6/81



Getty Oil Company

Well Diagram: Getty State 29 "J" Well No. 1

Central Exploration and Production Division

Measurements taken from KB 23.5' above ground level.

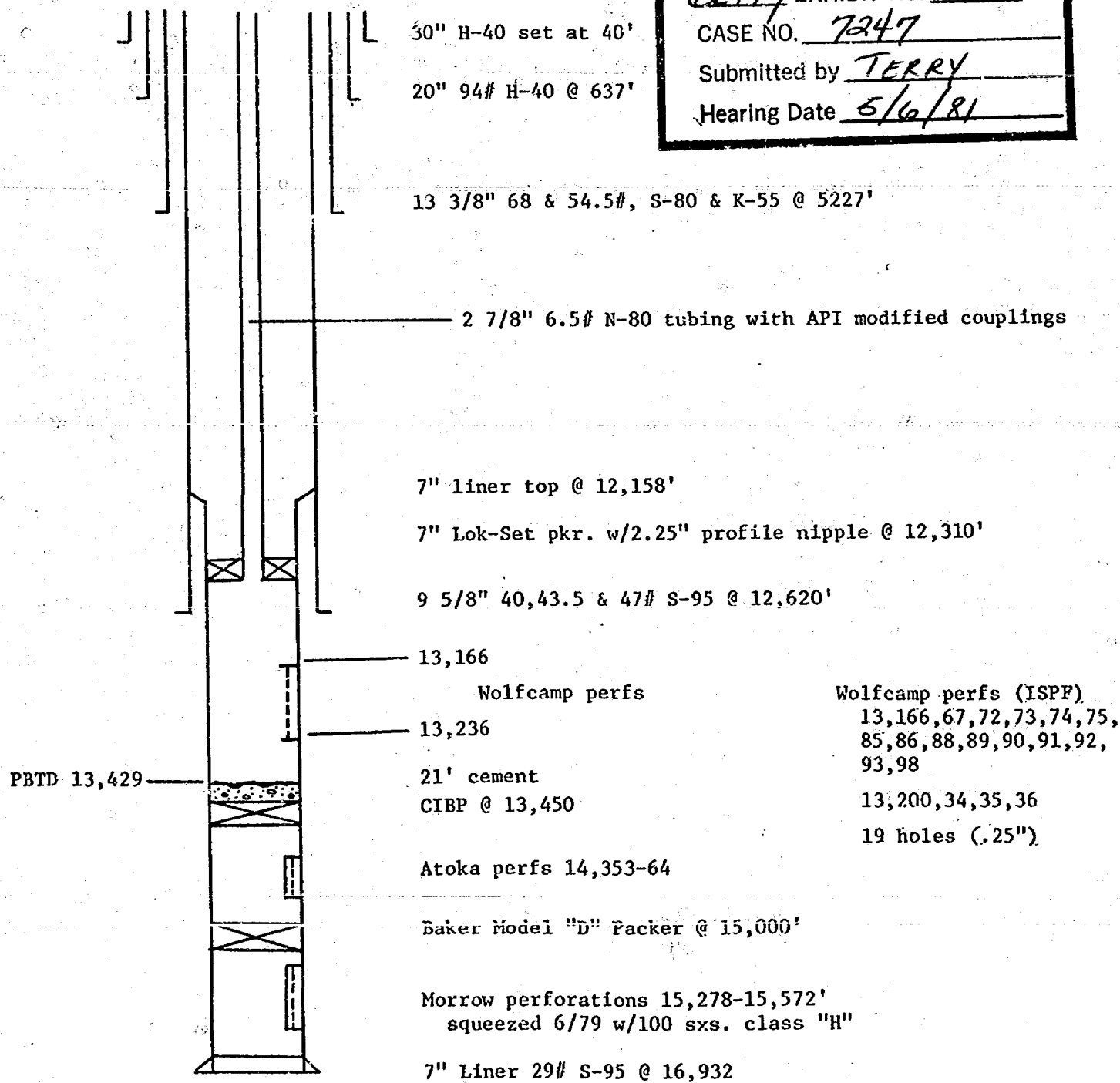
BEFORE EXAMINER STAMETS
OIL CONSERVATION DIVISION

GETTY EXHIBIT NO. 3

CASE NO. 7247

Submitted by TERRY

Hearing Date 5/6/81





Getty Oil Company

Central Exploration and Production Division WEEKLY AVERAGE PRODUCTION

GETTY STATE 29 "J" No. 1

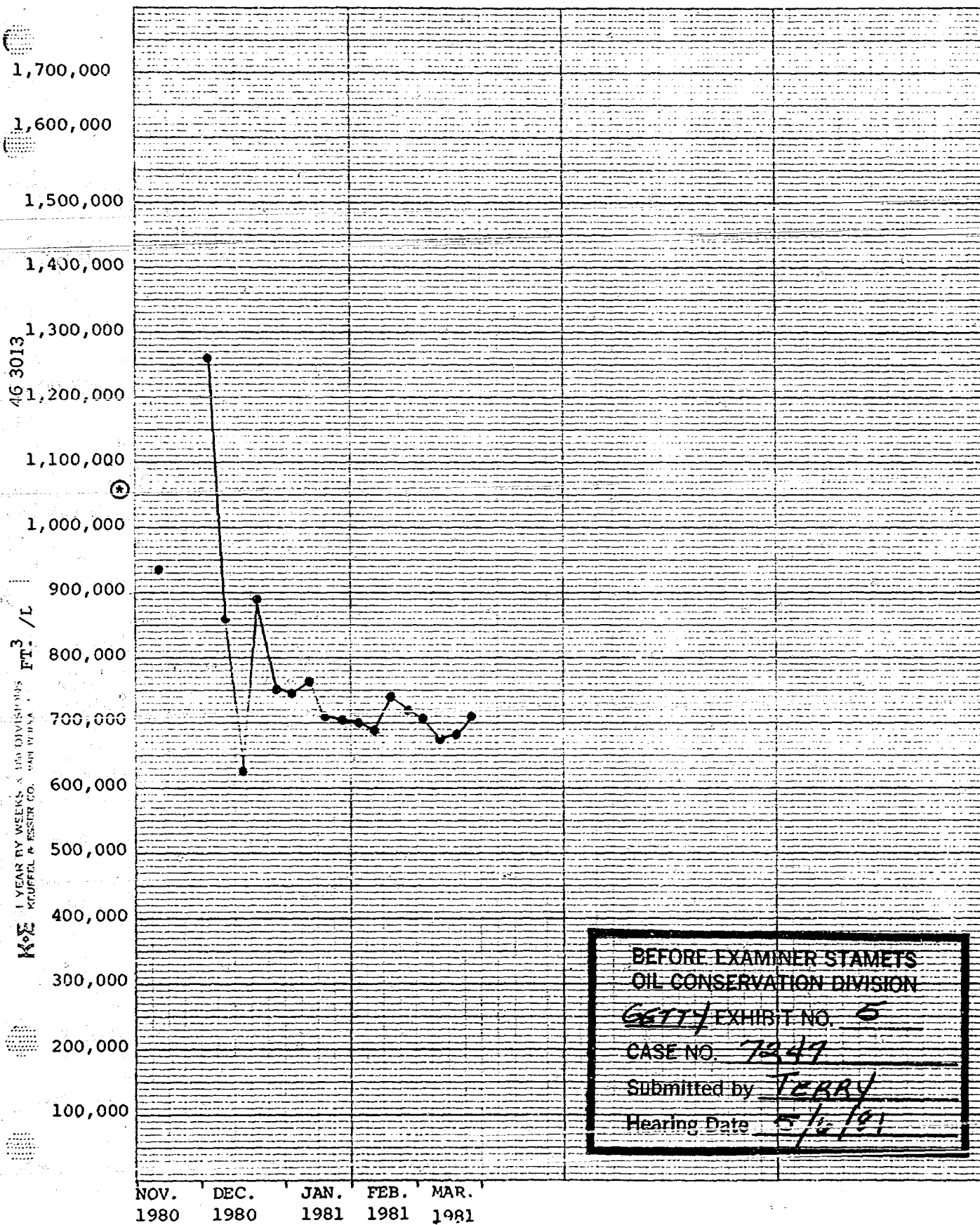
<u>DATE</u>	<u>CHOKE</u>	<u>FTP</u>	<u>OIL</u> ¹	<u>GAS</u> ¹	<u>WATER</u> ¹	<u>GOR</u>
11/3/80	Initial Clean-Up and Testing					
11/10/80	11/64	2270	113	936,083	1	8284
11/17/80	Shut-In*					
11/24/80	Shut-In**					
12/1/80	10/64	3260	117	1,263,600	3	10,800
12/8/80	11/64	2550	106	862,000	14	8132
12/15/80	10/64	2770	98	624,000	0	6367
12/22/80	11/64	2065	94	892,600	2.6	9496
12/29/80	11/64	1993	87	749,800	6	8618
1/5/81	11/64	1886	87	746,700	9.3	8583
1/12/81	11/64	1740	82	763,500	8.7	9311
1/19/81	11/64	1920	85	712,100	4.4	8378
1/26/81	11/64	1820	75	705,600	5	9408
2/2/81	11/64	1725	81	702,300	3.1	8670
2/9/81	11/64	1945	73	689,500	1	9445
2/16/81	11/64	1735	82	743,500	3	9067
2/23/81	11/64	1700	76	720,100	8.6	9475
3/2/81	11/64	1620	73	708,000	9.4	9699
3/9/81	11/64	2010	78	675,100	6	8655
3/16/81	11/64	1753	74	681,700	11	9212
3/23/81	11/64	1600	74	711,800	8.5	9619

* Shut-in 192 hours for pressure build-up maximum surface 5800 psi

** Shut-in 388 hours for pressure build-up maximum surface 6300 psi. BHP9123 psi

1 Daily Rates

GETTY STATE 29 "J" No. 1
WEEKLY AVERAGE GAS PRODUCTION (FT.³ PD)

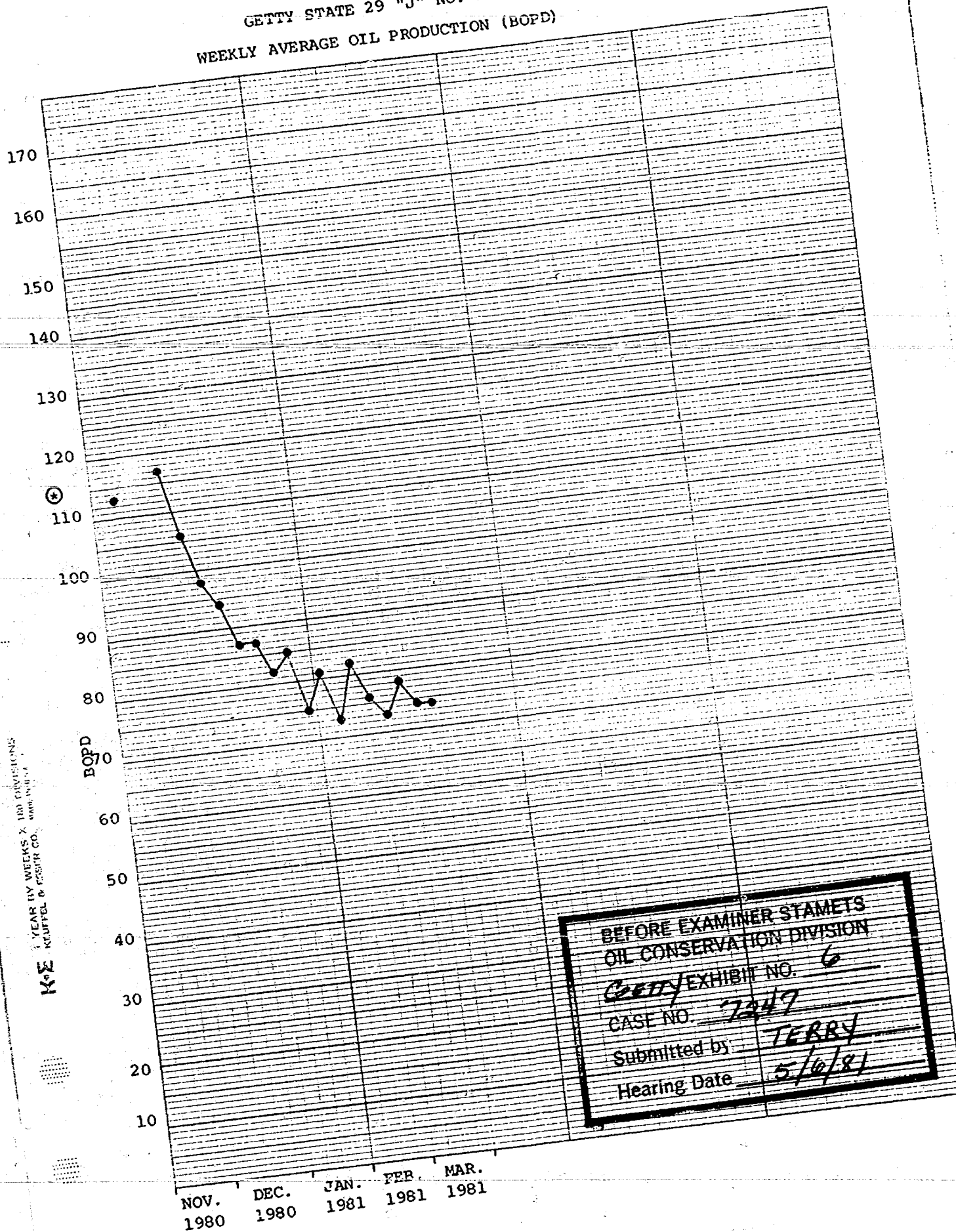


⊙ Shut-in for pressure build-up

GETTY STATE 29 "J" No. 1
WEEKLY AVERAGE OIL PRODUCTION (BOPD)

46 3013

1 YEAR BY WEEKS & 100 DIVISIONS
K-E KUFFEL & CO. INC. NEW YORK, N.Y.



(*) Shut-in for pressure build-up

BEFORE EXAMINER STAMETS
OIL CONSERVATION DIVISION

GETTY/EXHIBIT NO. 6

CASE NO. 7247

Submitted by TERRY

Hearing Date 5/6/81

CORE LABORATORIES, INC.
Petroleum Reservoir Engineering
DALLAS, TEXAS 75247

Reservoir Fluid Study

GETTY OIL COMPANY
State 29-"J" No. 1 Well
Lea County, New Mexico

RFL 80853

BEFORE EXAMINER STAMETS
OIL CONSERVATION DIVISION

~~GETTY~~ EXHIBIT NO. 7

CASE NO. 7347

Submitted by MCDELMET

Hearing Date 5/6/81

March 3, 1981

CORE LABORATORIES, INC.



Getty Oil Company
P. O. Box 730
Hobbs, NM 88240

P. L. Moses
Manager
Reservoir Fluid Analysis

Attention: Mr. Jim Micikas

Subject: Reservoir Fluid Study
State 29-"J" No. 1 Well
Lea County, New Mexico
RFL 80853

Gentlemen:

Separator gas and liquid samples were collected from the State 29-"J" No. 1 Well by our representative on November 14, 1980. The samples were delivered to our laboratory in Dallas, where a reservoir fluid study was performed. The results of the study are presented on the following pages.

Before being sampled, the well was flowed for three days and gas and liquid rates were constantly monitored. The average gas-liquid ratio during this three-day test was 7975 standard cubic feet of separator gas per barrel of stock tank liquid. In the laboratory, it was determined that this ratio was equivalent to 5921 standard cubic feet of gas per barrel of separator liquid at 84°F. The compositions of the separator products were measured, and the well stream composition was calculated on the basis of the producing gas-liquid ratio.

The separator gas and liquid were physically recombined in the producing ratio and the resulting mixture was examined in a visual cell at the reservoir temperature of 200°F. The fluid was found to be a rich gas condensate system which had a dew point pressure of 5763 psig. Comparison of this pressure to the reported reservoir pressure of 9950 psig shows that the reservoir gas is highly undersaturated. The pressure-volume relations of the reservoir fluid were measured over a wide pressure range, and are reported on page three. The deviation factor of the gas was calculated at the dew point pressure and at all pressures above the dew point.

The reservoir fluid was subjected to a constant volume depletion process, during which the volume of retrograde liquid was measured at each depletion pressure. The maximum volume of retrograde liquid observed was 17.1 percent of the hydrocarbon pore space at 2100 psig.

Getty Oil Company
State 29-"J" No. 1 Well

Page Two

The above information was sent to you in preliminary form on February 3, and we were instructed to hold the samples. Since the reservoir fluid is a rich gas condensate system with a large amount of retrograde liquid, it is recommended that a complete depletion study should be performed. This would provide you with the fluid data necessary to perform accurate reservoir engineering calculations. Please let us know if you want us to continue the study or if the samples should be discarded.

Very truly yours,

CORE LABORATORIES, INC.

James R. Fortner

James R. Fortner
Assistant Manager
Reservoir Fluid Analysis

JRF:JB:km
6cc: Addressee

CORE LABORATORIES, INC.
Petroleum Reservoir Engineering
 DALLAS, TEXAS 75247

Page 1 of 6

File RFL 80853

Company Getty Oil Company Date Sampled November 14, 1980
 Well State 29-"J" No. 1 County Lea
 Field Undesignated State New Mexico

FORMATION CHARACTERISTICS

Formation Name	<u>Wolfcamp</u>
Date First Well Completed	<u>October 27</u> , 1980
Original Reservoir Pressure	<u> </u> PSIG @ <u> </u> Ft.
Original Produced Gas-Liquid Ratio	<u> </u> SCF/Bbl
Production Rate	<u>135</u> Bbls/Day
Separator Pressure and Temperature	<u> </u> PSIG <u> </u> °F.
Liquid Gravity at 60°F.	<u>54</u> °API
Datum	<u> </u> Ft. Subsea

WELL CHARACTERISTICS

Elevation	<u>3520 GL</u>	Ft.
Total Depth	<u>PB13429</u>	Ft.
Producing Interval	<u>13166-13236</u>	Ft.
Tubing Size and Depth	<u>2-7/8</u> In. to <u>12310</u>	Ft.
Open Flow Potential	<u> </u> MMSCF/Day	
Last Reservoir Pressure	<u>9950</u> PSIG @ <u>13201</u>	Ft.
Date	<u>December 5</u> , 1980	
Reservoir Temperature	<u>200</u> °F. @ <u>13201</u>	Ft.
Status of Well	<u>Shut in</u>	
Pressure Gauge	<u>Amerada</u>	

SAMPLING CONDITIONS*

Flowing Tubing Pressure	<u>2200</u>	PSIG
Flowing Bottom Hole Pressure	<u> </u>	PSIG
Primary Separator Pressure	<u>790</u>	PSIG
Primary Separator Temperature	<u>84</u>	°F.
Secondary Separator Pressure	<u> </u>	PSIG
Secondary Separator Temperature	<u> </u>	°F.
Field Stock Tank Liquid Gravity	<u>54</u>	°API @ 60°F.
Primary Separator Gas Production Rate	<u>942.8</u>	MSCF/Day
Pressure Base	<u>15.025</u>	PSIA
Temperature Base	<u>60</u>	°F.
Compressibility Factor (F _{pv})	<u>1.0752</u>	
Gas Gravity (Laboratory)	<u>0.668</u>	
Gas Gravity Factor (F _g)	<u>1.2235</u>	
Stock Tank Liquid Production Rate @ 60°F.	<u>118.22</u>	Bbls/Day
Primary Separator Gas/Stock Tank Liquid Ratio	<u>7975</u>	SCF/Bbl
or	<u>125.39</u>	Bbls/MMSCF
Sampled by	<u>Tefteller, Inc.</u>	

REMARKS:

*3-day averages.

These analyses, opinions or interpretations are based on observations and material supplied by the client to whom, and for whose exclusive and confidential use, this report is made. The interpretations or opinions expressed represent the best judgement of Core Laboratories, Inc. (all errors and omissions excepted); but Core Laboratories, Inc. and its officers and employees, assume no responsibility and make no warranty or representations as to the productivity, proper operation, or profitability of any oil, gas or other mineral well or sand in connection with which such report is used or relied upon.

CORE LABORATORIES, INC.
Petroleum Reservoir Engineering
 DALLAS, TEXAS 75247

Page 2 of 6

File RFL 80853

Well State 29-"J" No. 1

HYDROCARBON ANALYSES OF SEPARATOR PRODUCTS AND CALCULATED WELL STREAM

Component	Separator Liquid, Mol Percent	Separator Gas		Well Stream	
		Mol Percent	GPM	Mol Percent	GPM
	0.00	0.00		0.00	
Hydrogen Sulfide	0.08	0.15		0.14	
Carbon Dioxide	0.05	0.77		0.67	
Nitrogen	19.27	84.32		75.19	
Methane	9.77	9.60	2.618	9.62	2.623
Ethane	9.03	3.26	0.915	4.07	1.142
Propane	2.58	0.47	0.157	0.77	0.257
iso-Butane	6.22	0.85	0.273	1.60	0.514
n-Butane	2.37	0.19	0.071	0.50	0.187
iso-Pentane	3.80	0.20	0.074	0.70	0.259
n-Pentane	6.14	0.11	0.046	0.96	0.403
Hexanes	40.69	0.08	0.037	5.78	3.708
Heptanes plus	100.00	100.00	4.191	100.00	9.093

Properties of Heptanes plus

API gravity @ 60°F. 46.7
 Density, Gm/Cc @ 60°F. 0.7931
 Molecular weight 161

103

0.793

161

Calculated separator gas gravity (air=1.000) = 0.668
 Calculated gross heating value for separator gas = 1198 BTU.
 per cubic foot of dry gas @ 15.025 psia and 60°F.

Primary separator gas collected @ 790 psig and 84 °F.
 Primary separator liquid collected @ 790 psig and 84 °F.

Primary separator gas/separator liquid ratio 5921 SCF/Bbl @ 84°F.
 Primary separator liquid/stock tank liquid ratio 1.347 Bbls @ 84°F./Bbl
 Primary separator gas/well stream ratio 859.73 MSCF/MMSCF

These analyses, opinions or interpretations are based on observations and material supplied by the client to whom, and for whose exclusive and confidential use, this report is made. The interpretations or opinions expressed represent the best judgment of Core Laboratories, Inc. (all errors and omissions excepted); but Core Laboratories, Inc. and its officers and employees, assume no responsibility and make no warranty or representations as to the productivity, proper operation, or profitability of any oil, gas or other mineral well or sand in connection with which such report is used or relied upon.

CORE LABORATORIES, INC.
Petroleum Reservoir Engineering
 DALLAS, TEXAS 75247

Page 3 of 6

File RFL 80853

Well State 29-"J" No. 1

PRESSURE-VOLUME RELATIONS AT 200°F.
(Constant Composition Expansion)

<u>Pressure,</u> <u>PSIG</u>	<u>Relative</u> <u>Volume</u>	<u>Deviation Factor,</u> <u>Z</u>
10000	0.8453	1.421
9500	0.8557	1.367
9000	0.8711	1.318
8500	0.8844	1.264
8000	0.8974	1.207
7500	0.9169	1.157
7000	0.9365	1.103
6600	0.9540	1.060
6200	0.9740	1.016
6000	0.9852	0.995
5800	0.9977	0.974
5763 Dew Point Pressure	1.0000	0.970*
5600	1.0110	
5400	1.0261	
5000	1.0605	
4700	1.0935	
4200	1.1618	
3700	1.2576	
3200	1.3995	
2700	1.6180	
2200	1.9656	
1700	2.5596	
1363	3.2373	
1142	3.9071	
992	4.5357	

*Gas formation volume factor = 1.754 MSCF/Bbl.

CORE LABORATORIES, INC.
Petroleum Reservoir Engineering
DALLAS, TEXAS 75247

Page 4 of 6

File RFL 80853

Well State 29-"J" No. 1

RETROGRADE CONDENSATION DURING GAS DEPLETION AT 200°F.

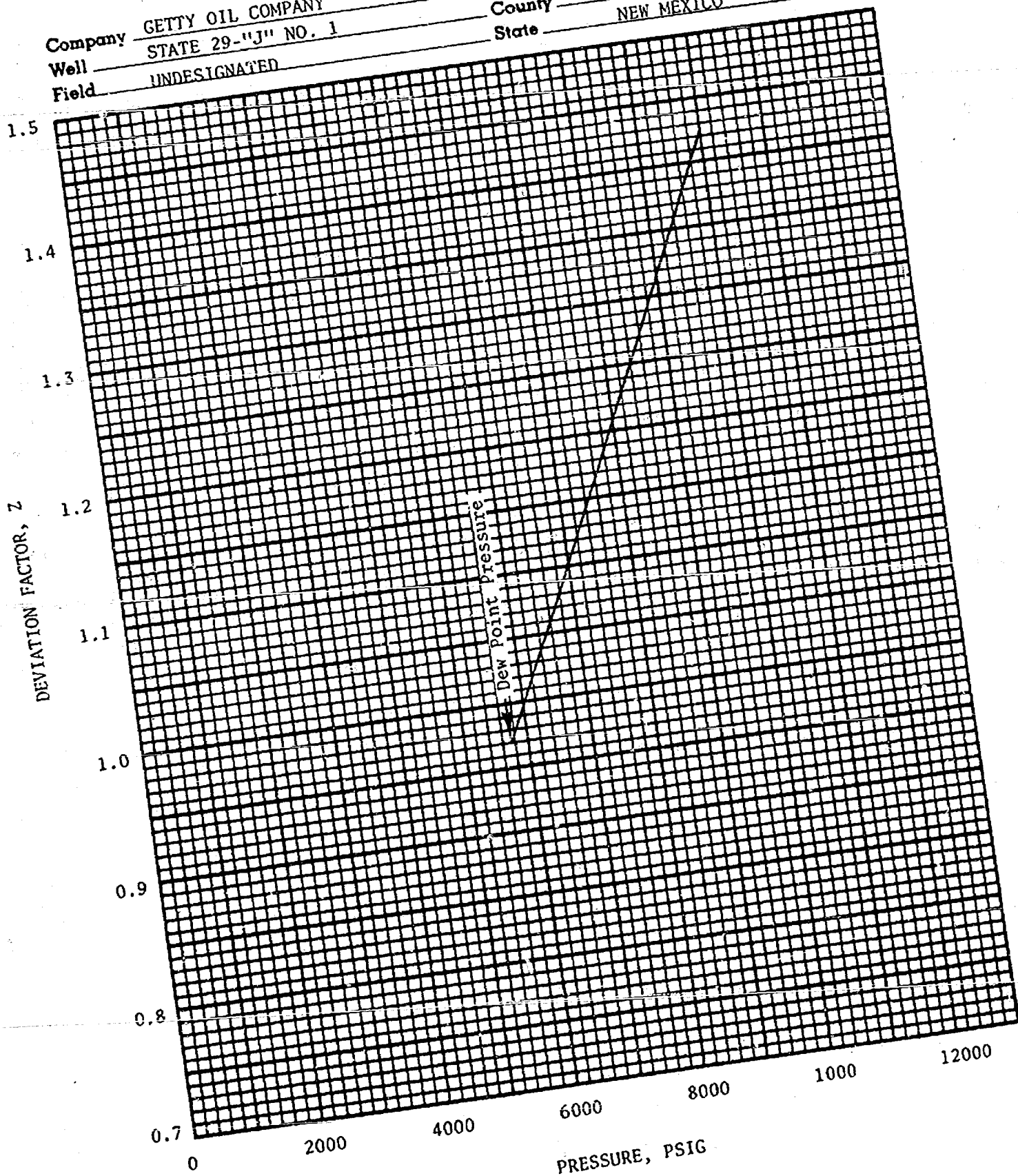
<u>Pressure,</u> <u>PSIG</u>	<u>Retrograde Liquid Volume,</u> <u>Percent of Hydrocarbon Pore Space</u>
5763 Dew Point Pressure	0.0
5600	0.5
5400	1.3
5000	4.0
4800 First Depletion Level	6.2
3900	13.5
3000	16.6
2100	17.1
1300	16.1
700	14.9
0	12.9

CORE LABORATORIES, INC.
Petroleum Reservoir Engineering
DALLAS, TEXAS

Page 5 of 6
File RFL 80853

DEVIATION FACTOR, Z

Company	GETTY OIL COMPANY	Formation	WOLFCAMP
Well	STATE 29-"J" NO. 1	County	LEA
Field	UNDESIGNATED	State	NEW MEXICO

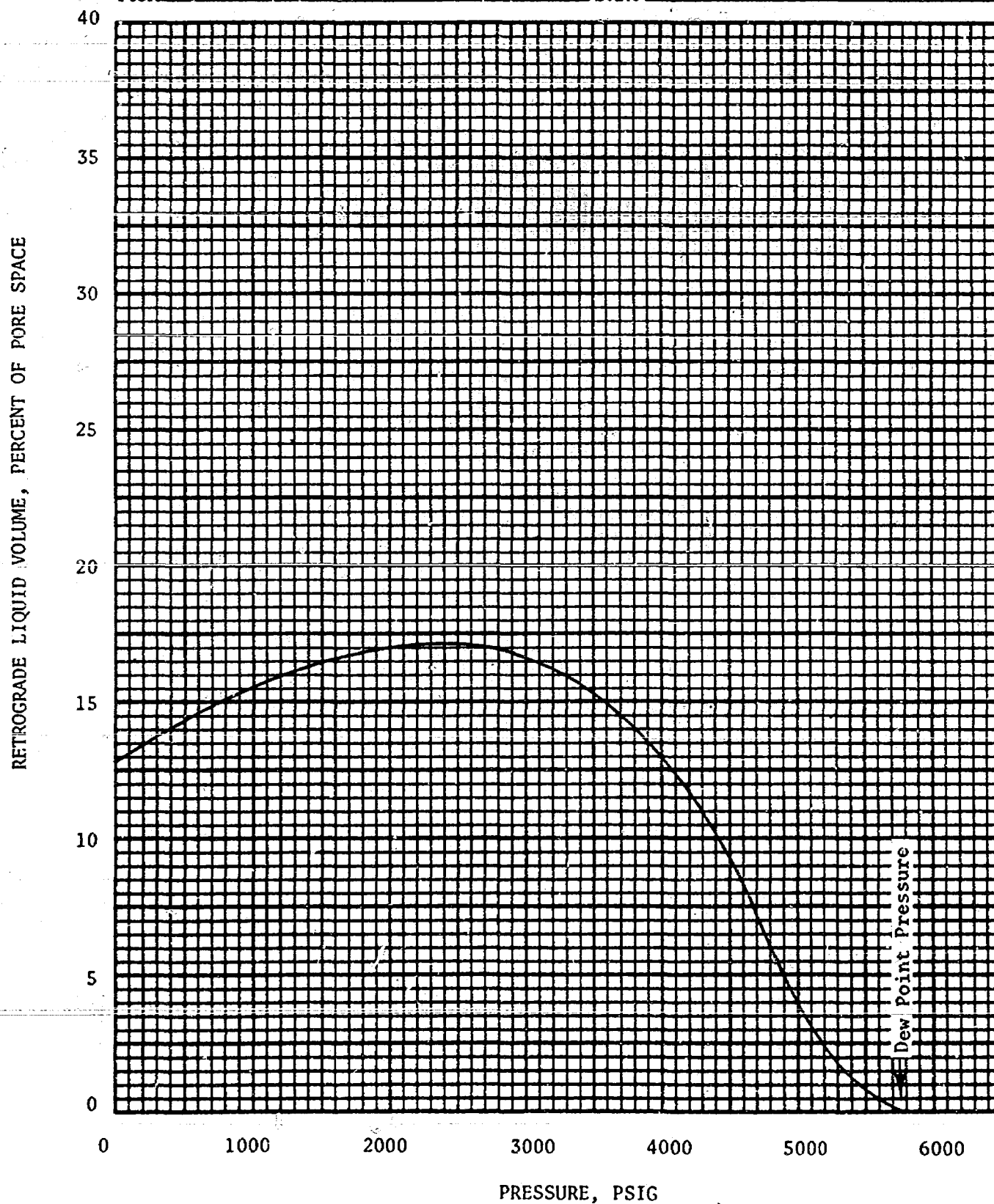


CORE LABORATORIES, INC.
Petroleum Reservoir Engineering
DALLAS, TEXAS

Page 6 of 6
 File RFL 80853

RETROGRADE LIQUID VOLUME

Company	<u>GETTY OIL COMPANY</u>	Formation	<u>WOLFCAMP</u>
Well	<u>STATE 29-"J" NO. 1</u>	County	<u>LEA</u>
Field	<u>UNDESIGNATED</u>	State	<u>NEW MEXICO</u>





Getty Oil Company

Central Exploration and Production Division
P.O. Box 730
Hobbs, NM 88240

May 8, 1981

OIL CONSERVATION DIVISION

MAY 10 1981

RECEIVED

Mr. Richard L. Stamets
Technical Support Chief
Oil Conservation Division
New Mexico Department of
Energy and Minerals
P.O. Box 2088
Santa FE, NM 87501

Re: State 29 J Well No. 1, Lea County, New Mexico

Dear Mr. Stamets:

There was some confusion concerning Getty Oil Company's recommendation of the maximum efficient rate of production from the above-referenced well as presented in our testimony at the examiner hearing on May 6, 1981. We would like to offer some additional comments which may clear up some of the confusion.

As you will recall, in response to one of your questions it was stated that production from the well had not been restricted due to regulatory constraints and that presently a daily allowable of approximately 750 MCF of gas per day would be sufficient. In further testimony it was recommended that no limit be set for daily production from the well based upon our belief that ultimate recoverable reserves from the reservoir is not rate sensitive. We feel that we submitted exhibits at the hearing which supports this conclusion.

While we would have no objection to a maximum allowable of 750 MCF per day at this time, we feel that this could be unduly restrictive in the future. Although, at present we are only producing approximately 750 MCF per day, in the future we may need to produce the well at a higher rate to prevent the well bore from loading up with liquid. Also, as was pointed out in response to one of your questions, there may be other wells in the pool in the future with higher deliverability than that of the State 29 J Well No. 1. In fact, the State 29 J was produced at a rate in excess of 1,250 MCF per day for a period of time, which was in excess of the well's casing head gas allowable at the time.


We would continue to recommend that no limit be set for daily production from the State 29 J Well no. 1 and future wells in the pool. However, if the Oil Conservation Division should see fit to impose a limit then we would recommend that

Mr. Richard L. Stamets
May 8, 1981
Page 2

this limit be no less than 1,250 MCF per day and that a provision for administrative approval for increasing the limit be included as a part of the order.

Yours very truly,

GETTY OIL COMPANY



Herman W. Terry
Area Engineer

HWT/lwm

cc: Mr. J. E. Eakin-Midland
Mr. W. F. Carr-Campbell, Byrd, & Black

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION
STATE LAND OFFICE BLDG.
SANTA FE, NEW MEXICO
6 May 1981

EXAMINER HEARING

IN THE MATTER OF:

Application of Getty Oil Company for
a gas well classification, Lea
County, New Mexico.

CASE
7247

BEFORE: Richard L. Stamets

TRANSCRIPT OF HEARING

A P P E A R A N C E S

For the Oil Conservation
Division:

Ernest L. Padilla, Esq.
Legal Counsel to the Division
State Land Office Bldg.
Santa Fe, New Mexico 87501

For the Applicant:

William F. Carr, Esq.
CAMPBELL, BYRD, & BLACK
Jefferson Place
Santa Fe, New Mexico 87501

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Direct Examination by Mr. Carr	3
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Cross Examination by Mr. Stamets	14

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Applicant Exhibit Four, Tabulation	7
Applicant Exhibit Five, Graph	7
Applicant Exhibit Six, Graph	7
Applicant Exhibit Seven, Reservoir Study	11
Applicant Exhibit Eight, Cross Section	12

MR. STAMETS: Call next Case 7247.

MR. PADILLA: Application of Getty Oil
Company for a gas well classification, Lea County, New Mexico.

MR. CARR: May it please the Examiner,
my name is William F. Carr, with the law firm, Campbell,
Byrd, and Black, Santa Fe, appearing on behalf of the applicant.

We have two witnesses who need to be
sworn.

(Witnesses sworn.)

HERMAN W. TERRY
being called as a witness and being duly sworn upon his oath,
testified as follows, to-wit:

DIRECT EXAMINATION

BY MR. CARR:

Q Will you please state your full name
and place of residence?

A. Herman W. Terry. I reside in Hobbs,
New Mexico.

Q Mr. Terry, by whom are you employed
and in what capacity?

A. I'm employed by Getty Oil Company as

1

2 Area Engineer for the Hobbs area.

3

4 Q Have you previously testified before
5 this Commission and had your qualifications as a petroleum
6 engineer made a matter of record?

7

A Yes, I have.

8

9 Q Are you familiar with the application
10 filed in this case?

11

A Yes, sir, I am.

12

Q Are you familiar with the subject well?

13

A Yes, sir, I am.

14

15 MR. CARR: Are the witness' qualifications
16 acceptable?

17

MR. STAMETS: They are.

18

19 Q Will you please state what Getty seeks
20 with this application?

21

22 A We are seeking to have the State 29-J
23 Well No. 1 reclassified from an oil well to a gas well, the
24 well being located in Unit J of Section 29, Township 24 South,
25 Range 33 East.

26

27 Q Will you please provide the Examiner
28 with a brief history of the subject well?

29

30 A Yes, sir. The well was drilled to a
31 TD of 17652 feet, completed in the Morrow.

32

The well was later recompleted to the

Atoka and neither of these completions produced gas in commercial quantities.

The well was then recompleted to the Wolfcamp on October 27, 1980, through perforations 13166 to 13236.

Q. What is the present status of this well?

A. The present -- presently the well is classified as a Wolfcamp oil well. It's been placed in the East Christy Draw Wolfcamp Oil Pool.

Q. And it's being operated under the statewide rules for oil wells, is that correct?

A. Yes, sir, that's correct.

Q. Have you prepared or had prepared under your direction and supervision certain exhibits for introduction in this case?

A. Yes, sir, I have.

Q. Will you please refer to what's been marked for identification as Getty Exhibit Number One and explain to Mr. Stamets what this shows?

A. Exhibit Number One is an index map showing the location of the subject well in Lea County, New Mexico. The well is located approximately 29 miles to the northwest of Jal, New Mexico.

Q. Will you now refer to Exhibit Number

1
2 Two and review this for Mr. Stamets?

3 A Exhibit Number Two is a land plat
4 showing the location of the subject well, the Getty 29-J
5 State No. 1, located 1980 from the south line and 1980 from
6 the east line, Section 29, Township 24 South, Range 33 East,
7 Lea County, New Mexico.

8 We also show an offset well that has
9 recently been drilled and completed, the Getty 28 State No. 1
10 in the adjoining section.

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18 Q Will you now refer to Getty Exhibit
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20 A Exhibit Number Three is a diagrammatic
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23 forations at 13166 to 13236.

24 Q This also shows the previous attempts
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6 a weekly average production from the State 29-J Well No. 1.
7 It shows the rates, these are average daily rates, showing
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10 Q. I now direct your attention to Exhibits,
11 Getty Exhibits Five and Six and ask that you explain these to
12 the Examiner.

13 A. Exhibits Five and Six is the information
14 from the tabulation put into graphical form. We plotted
15 weekly average gas production, cubic feet per day versus
16 time.

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18 oil production, barrels of oil per day, plotted versus time.

19 Q. Mr. Terry, what conclusions can you
20 draw from this data?

21 A. Well, from this we can see that there
22 has been no drastic reduction in the producing capacity of
23 the well. Also the producing GOR, the gravity, the liquid
24 is consistent with -- with what would be expected from a
25 gas condensate reservoir rather than an oil pool.

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2 Q What is the cumulative production from
3 the well?

4 A Cumulative production as of April 1st,
5 1981, 10885 barrels of oil, 97,216 Mcf gas, 732 barrels of
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7 Q Does Getty intend to call another wit-
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14 One through Six.

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16 admitted.

17 MR. CARR: And I have nothing further
18 of Mr. Terry, on direct.

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22 Q Mr. Terry, Exhibit Number Four shows
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25 A This is the capacity of the well, which

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6 A Yes, sir, that's correct.

7 Q And you feel that that's an appropriate
8 rate for this well?

9 A Yes, sir, we do.

10 Q Okay.

11 MR. STAMETS: Any other questions of
12 this witness? He may be excused.

13 MR. CARR: At this time I would call
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16 JOHN MCDERMOTT
17 being called as a witness and being duly sworn upon his oath,
18 testified as follows, to-wit:

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21 BY MR. CARR:

22 Q Mr. McDermott, will you state your full
23 name and place of residence?

24 A John C. McDermott, Midland, Texas.

25 Q By whom are you employed and in what

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2 capacity?

3 A I'm with Getty Oil Company. I'm on the
4 reservoir staff in Midland.

5 Q Have you previously testified before
6 this Commission?

7 A No, I have not.

8 Q Would you review for the Examiner your
9 educational background and your work experience?

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11 with a Bachelor's degree in petroleum engineering, and since
12 that time I've been with Getty in various engineering capacities,
13 drilling, production, and reservoir.

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17 Q Are you familiar with the application
18 filed in this case?

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The separator gas and liquid were recombined to the producing GOR and placed in a visual cell at the reservoir temperature of 200 degrees Fahrenheit. The fluid exhibited a dew point pressure of 5763 psig. Comparing this with the original reservoir pressure of 9950 psig indicates that the fluid is highly undersaturated and existed originally as a single phase gas in the reservoir.

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18 Getty Exhibit Number Eight and explain to the Examiner what
19 this is and what it shows?

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21 section, A-A', referenced back to that Exhibit Two which
22 showed the section line.

23 This exhibit was prepared and correlated
24 by our geological staff in Midland.

25 The well log on the left is that of the

State 29-J and the State 28 well log is on the right.

And the purpose of presenting this exhibit is to show that the porous interval that's perforated in the 29-J is not present in the 28.

Q Is this evidence that you're dealing with a small reservoir?

A Yes, it is.

Q Do you have any other control in the immediate area from which you could conclude the limits of the reservoir?

A No, we don't at this time.

Q Do you have sufficient data to clearly identify -- establish reservoir size?

A No, we don't at this time.

Q In your opinion would the reservoir be rate sensitive?

A No, and I base that opinion on the current calculated flowing bottom hole pressure of 3500 psig, approximately, which is well below the dew point pressure of 5763, and production history to date shows no drastic decline in gas deliverability.

Q Do you have a recommendation to make to the Examiner concerning the maximum rates of withdrawal from this reservoir?

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2 A. We recommend that no limit be placed on
3 a maximum rate.

4 Q. In your opinion will granting this
5 application be in the best interest of conservation, the
6 prevention of waste, and protection of correlative rights?

7 A. Yes, sir.

8 Q. Have you reviewed Exhibits Seven and
9 Eight and can you testify as to their accuracy?

10 A. Yes, sir.

11 MR. CARR: At this time, Mr. Stamets,
12 we would offer Getty Exhibits Seven and Eight.

13 MR. STAMETS: These exhibits will be
14 admitted.

15 MR. CARR: I have nothing further of
16 Mr. McDermott on direct.

17
18 CROSS EXAMINATION

19 BY MR. STAMETS:

20 Q. Mr. McDermott, in cross examining Mr.
21 Terry I felt that Getty was of the opinion that 750,000 a
22 day was an appropriate producing limit for this particular
23 well, and then you indicated there should be no producing
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to be a dichotomy of answers.

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Up to the rate we're producing at we're

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So if you had 750 limit and an option

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Oh, for this well it would be. Other

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wells in the same field, assuming we get some, might have

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MR. STAMETS: Any other questions of

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this witness? He may be excused.

14

Anything further in this case?

15

MR. CARR: Nothing further.

16

MR. STAMETS: The case will be taken

17

under advisement.

18

19

(Hearing concluded.)

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C E R T I F I C A T E

I, SALLY W. BOYD, C.S.R., DO HEREBY CERTIFY that
the foregoing Transcript of Hearing before the Oil Conserva-
tion Division was reported by me; that the said transcript
is a full, true, and correct record of the hearing, prepared
by me to the best of my ability.

Sally W. Boyd CSR

SALLY W. BOYD, C.S.R.

Rt. 1 Box 193-B
Santa Fe, New Mexico 87501
Phone (505) 455-7409

I do hereby certify that the foregoing is
a complete record of the proceedings in
the Examiner hearing of Case No. 7247
heard by me on 5-6-81.

Richard L. Stamet, Examiner
Oil Conservation Division

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION
STATE LAND OFFICE BLDG.
SANTA FE, NEW MEXICO
6 May 1981

EXAMINER HEARING

IN THE MATTER OF:

Application of Getty Oil Company for
a gas well classification, Lea
County, New Mexico.

CASE
7247

BEFORE: Richard L. Stamets

TRANSCRIPT OF HEARING

A P P E A R A N C E S

For the Oil Conservation
Division:

Ernest L. Padilla, Esq.
Legal Counsel to the Division
State Land Office Bldg.
Santa Fe, New Mexico 87501

For the Applicant:

William F. Carr, Esq.
CAMPBELL, BYRD, & BLACK
Jefferson Place
Santa Fe, New Mexico 87501

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I N D E X

HERMAN W. TERRY

Direct Examination by Mr. Carr

Cross Examination by Mr. Stamets

JOHN C. McDERMOTT

Direct Examination by Mr. Carr

Cross Examination by Mr. Stamets

E X H I B I T S

Applicant Exhibit One, Map
Applicant Exhibit Two, Plat
Applicant Exhibit Three, Diagrammatic Sketch
Applicant Exhibit Four, Tabulation
Applicant Exhibit Five, Graph
Applicant Exhibit Six, Graph
Applicant Exhibit Seven, Reservoir Study
Applicant Exhibit Eight, Cross Section

MR. STAMETS: Call next Case 7247.

MR. PADILLA: Application of Getty Oil
Company for a gas well classification, Lea County, New Mexico.

MR. CARR: May it please the Examiner,
my name is William F. Carr, with the law firm, Campbell,
Byrd, and Black, Santa Fe, appearing on behalf of the applicant.

We have two witnesses who need to be
sworn.

(Witnesses sworn.)

HERMAN W. TERRY

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

DIRECT EXAMINATION

BY MR. CARR:

Q Will you please state your full name
and place of residence?

A Herman W. Terry. I reside in Hobbs,
New Mexico.

Q Mr. Terry, by whom are you employed
and in what capacity?

A I'm employed by Getty Oil Company as

1
2 Area Engineer for the Hobbs area.

3 Q Have you previously testified before
4 this Commission and had your qualifications as a petroleum
5 engineer made a matter of record?

6 A Yes, I have.

7 Q Are you familiar with the application
8 filed in this case?

9 A Yes, sir, I am.

10 Q Are you familiar with the subject well?

11 A Yes, sir, I am.

12 MR. CARR: Are the witness' qualifications
13 acceptable?

14 MR. STAMETS: They are.

15 Q Will you please state what Getty seeks
16 with this application?

17 A We are seeking to have the State 29-J
18 Well No. 1 reclassified from an oil well to a gas well, the
19 well being located in Unit J of Section 29, Township 24 South,
20 Range 33 East.

21 Q Will you please provide the Examiner
22 with a brief history of the subject well?

23 A Yes, sir. The well was drilled to a
24 TD of 17652 feet, completed in the Morrow.

25 The well was later recompleted to the

Atoka and neither of these completions produced gas in commercial quantities.

The well was then recompleted to the Wolfcamp on October 27, 1980, through perforations 13166 to 13236.

Q What is the present status of this well?

A The present -- presently the well is classified as a Wolfcamp oil well. It's been placed in the East Christy Draw Wolfcamp Oil Pool.

Q And it's being operated under the statewide rules for oil wells, is that correct?

A Yes, sir, that's correct.

Q Have you prepared or had prepared under your direction and supervision certain exhibits for introduction in this case?

A Yes, sir, I have.

Q Will you please refer to what's been marked for identification as Getty Exhibit Number One and explain to Mr. Stamets what this shows?

A Exhibit Number One is an index map showing the location of the subject well in Lea County, New Mexico. The well is located approximately 29 miles to the northwest of Jal, New Mexico.

Q Will you now refer to Exhibit Number

1
2 Two and review this for Mr. Stamets?

3 A Exhibit Number Two is a land plat
4 showing the location of the subject well, the Getty 29-5
5 State No. 1, located 1980 from the south line and 1980 from
6 the east line, Section 29, Township 24 South, Range 33 East,
7 Lea County, New Mexico.

8 We also show an offset well that has
9 recently been drilled and completed, the Getty 28 State No. 1
10 in the adjoining section.

11 The A-A' refers to a cross section
12 which will be submitted later.

13 Q Are these the only two wells that are
14 drilled into the Wolfcamp Pool which is the subject for this
15 hearing?

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17 wells in the near vicinity.

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25 The well log on the left is that of the

State 29-J and the State 28 well log is on the right.

And the purpose of presenting this exhibit is to show that the porous interval that's perforated in the 29-J is not present in the 28.

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5 affect.

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13 this witness? He may be excused.

14 Anything further in this case?

15 MR. CARR: Nothing further.

16 MR. STAMETS: The case will be taken
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19 (Hearing concluded.)
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C E R T I F I C A T E

I, SALLY W. BOYD, C.S.R., DO HEREBY CERTIFY that
the foregoing Transcript of Hearing before the Oil Conserva-
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is a full, true, and correct record of the hearing, prepared
by me to the best of my ability.

Sally W. Boyd CSR

I do hereby certify that the foregoing is
a complete record of the proceedings in
the Examiner hearing of Case No. _____
heard by me on _____ 19____.

_____, Examiner
Oil Conservation Division

SALLY W. BOYD, C.S.R.

Rt. 1 Box 193-B
Santa Fe, New Mexico 87501
Phone (505) 455-7409

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BEFORE EXAMINER STAMETS
OIL CONSERVATION DIVISION

GETTY EXHIBIT NO. 1

CASE NO. 7247

Submitted by TERRY

Hearing Date 5/16/81

YOKUM

LEA

HOBBS

GAINES

EUNICE

EAST TRISTE DRAW
(WOLFCAMP) FIELD

JAL

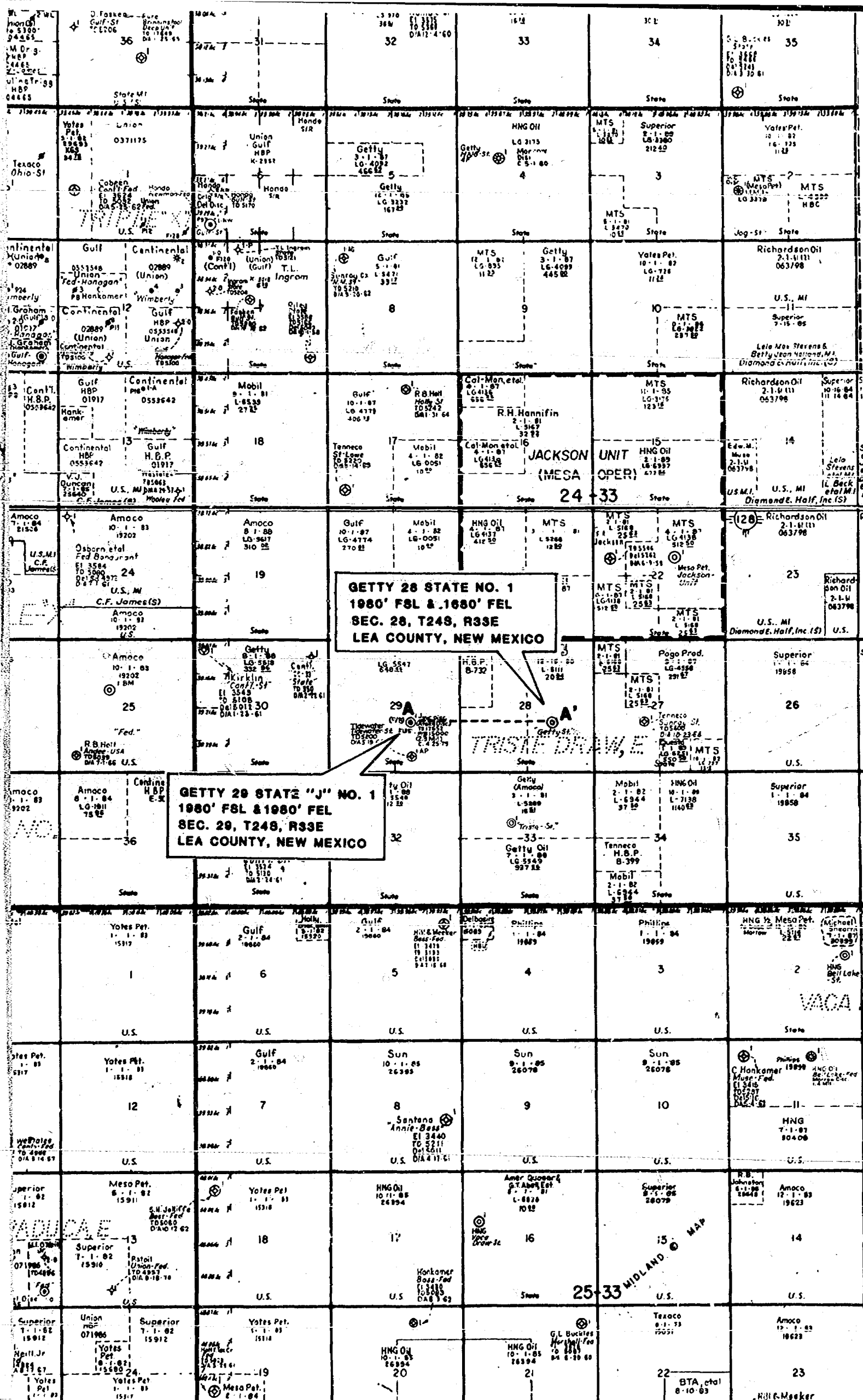
ANDREW

MEXICO

TEXAS

LOVING

GETTY OIL COMPANY
MIDLAND DISTRICT
INDEX MAP





Getty Oil Company

Well Diagram: Getty State 29 "J" Well No. 1

Central Exploration and Production Division

Measurements taken from KB 23.5' above ground level.

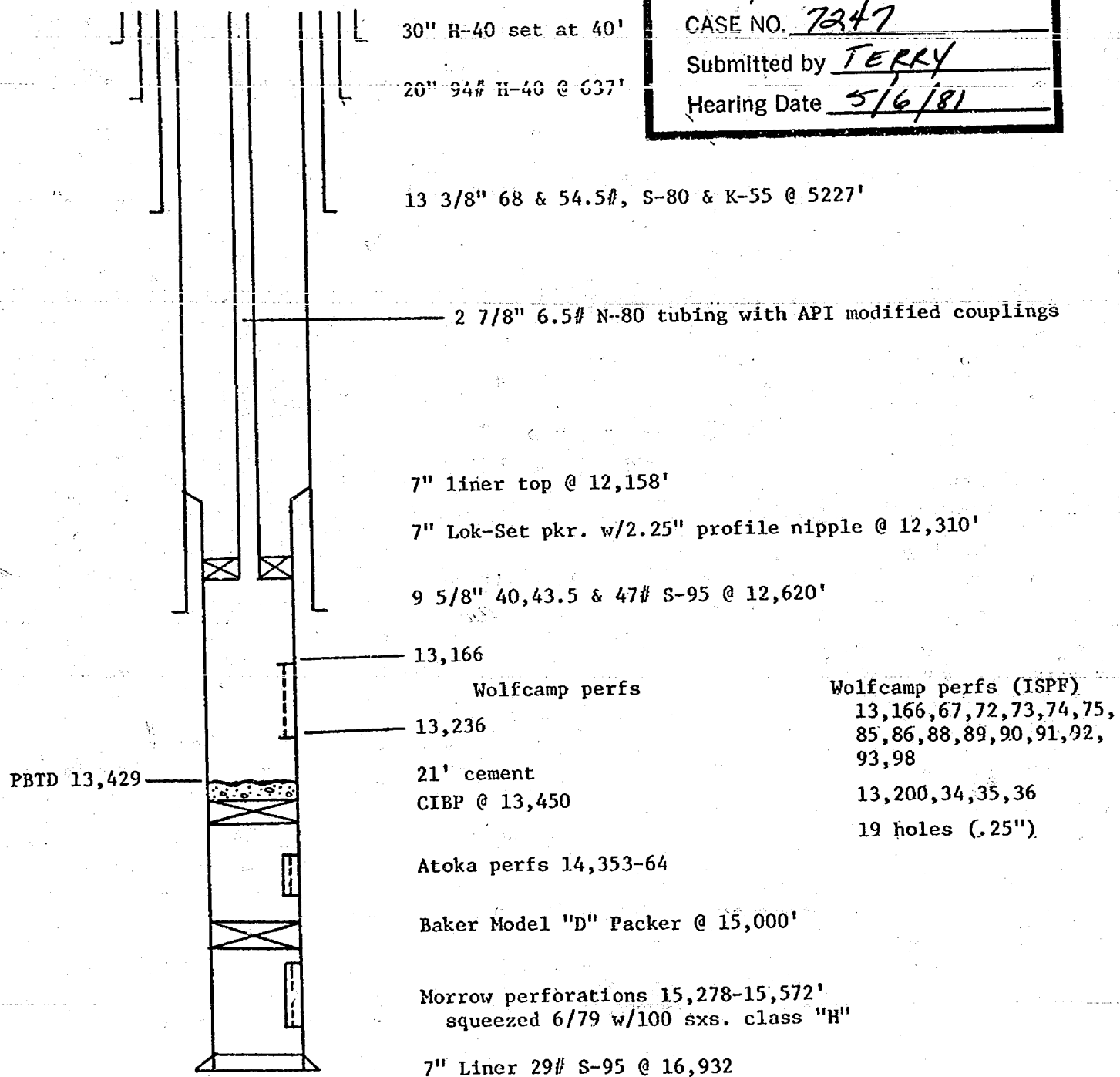
BEFORE EXAMINER STAMETS
OIL CONSERVATION DIVISION

GETTY EXHIBIT NO. 3

CASE NO. 7247

Submitted by TERRY

Hearing Date 5/6/81





Getty Oil Company

Central Exploration and Production Division
WEEKLY AVERAGE PRODUCTION
GETTY STATE 29 "J" No. 1

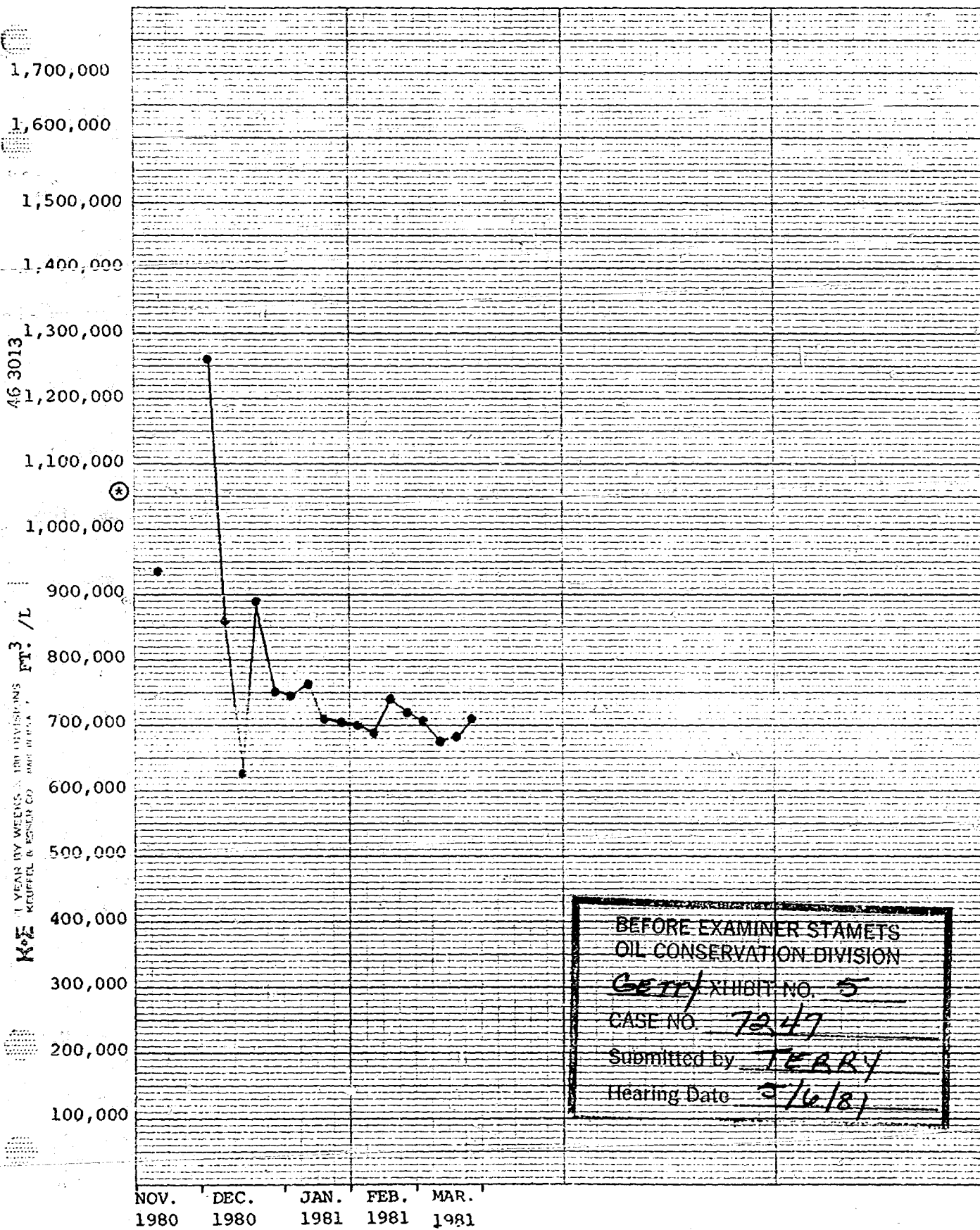
<u>DATE</u>	<u>CHOKE</u>	<u>FTP</u>	<u>OIL</u> ¹	<u>GAS</u> ¹	<u>WATER</u> ¹	<u>GOR</u>
11/3/80	Initial Clean-Up and Testing					
11/10/80	11/64	2270	113	936,083	1	8284
11/17/80	Shut-In*					
11/24/80	Shut-In**					
12/1/80	10/64	3260	117	1,263,600	3	10,800
12/8/80	11/64	2550	106	862,000	14	8132
12/15/80	10/64	2770	98	624,000	0	6367
12/22/80	11/64	2065	94	892,600	2.6	9496
12/29/80	11/64	1993	87	749,800	6	8618
1/5/81	11/64	1886	87	746,700	9.3	8583
1/12/81	11/64	1740	82	763,500	8.7	9311
1/19/81	11/64	1920	85	712,100	4.4	8378
1/26/81	11/64	1820	75	705,600	5	9408
2/2/81	11/64	1725	81	702,300	3.1	8670
2/9/81	11/64	1945	73	689,500	1	9445
2/16/81	11/64	1735	82	743,500	3	9067
2/23/81	11/64	1700	76	720,100	8.6	9475
3/2/81	11/64	1620	73	708,000	9.4	9699
3/9/81	11/64	2010	78	675,100	6	8655
3/16/81	11/64	1753	74	681,700	11	9212
3/23/81	11/64	1600	74	711,800	8.5	9619

* Shut-in 192 hours for pressure build-up maximum surface 5800 psi

** Shut-in 388 hours for pressure build-up maximum surface 6300 psi. BHP9123 psi

1 Daily Rates

GETTY STATE 29 "J" No. 1
WEEKLY AVERAGE GAS PRODUCTION (FT.³ PD)

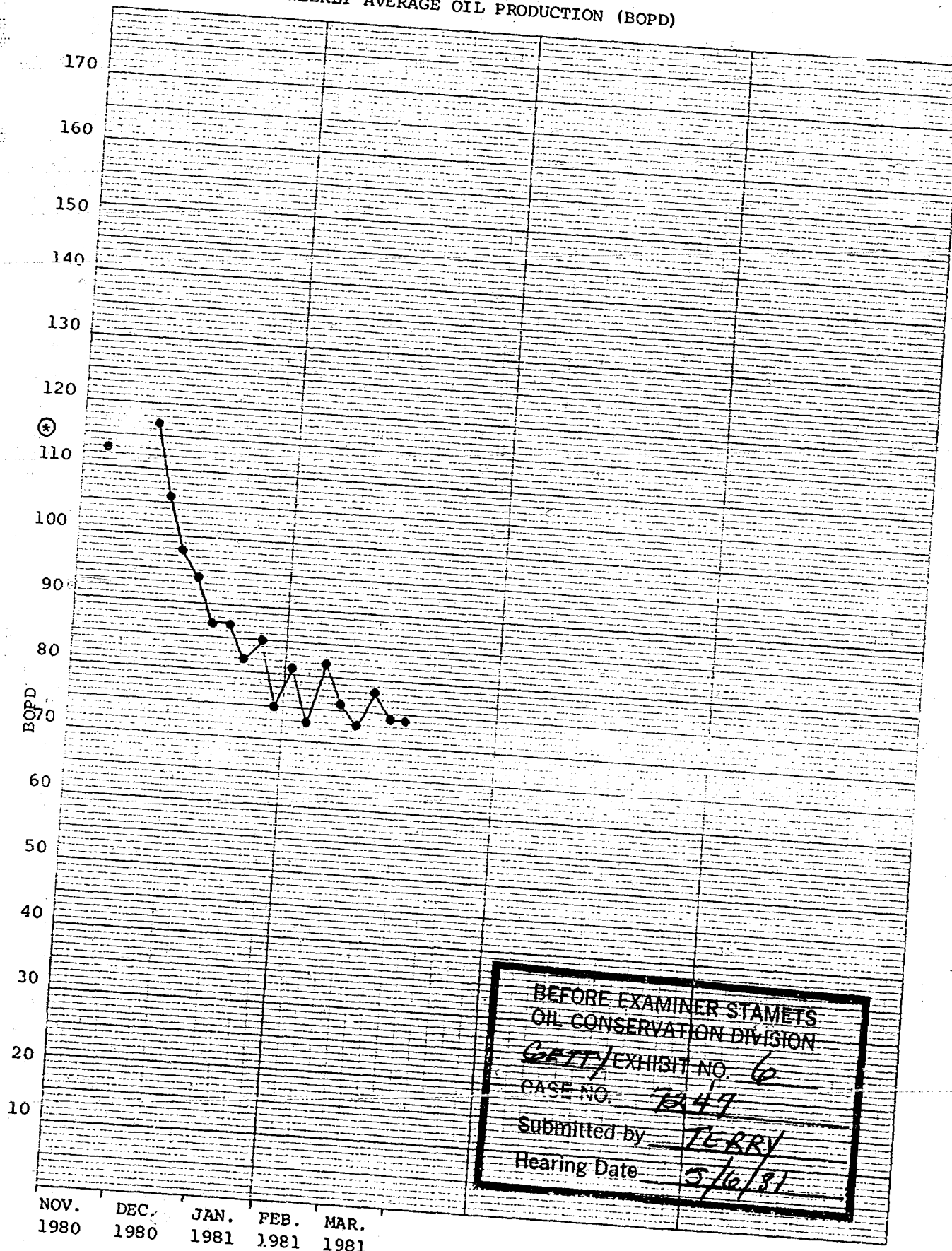


(*) Shut-in for pressure build-up

GETTY STATE 29 "J" No. 1
WEEKLY AVERAGE OIL PRODUCTION (BOPD)

46 3013

1 YEAR BY WEEKS - 100 DIVISIONS
KUTTEL & SONS CO. NEW YORK, N.Y.



BEFORE EXAMINER STAMETS
OIL CONSERVATION DIVISION
GETTY/EXHIBIT NO. 6
CASE NO. 7247
Submitted by TERRY
Hearing Date 5/6/81

* Shut-in for pressure build-up

CORE LABORATORIES, INC.
Petroleum Reservoir Engineering
DALLAS, TEXAS 75247

Reservoir Fluid Study
GETTY OIL COMPANY
State 29-"J" No. 1 Well
Lea County, New Mexico
RFL 80853

BEFORE EXAMINER STAMETS
OIL CONSERVATION DIVISION

GETTY EXHIBIT NO. 7

CASE NO. 7247

Submitted by McDERMOTT

Hearing Date 5/6/81

March 3, 1981

CORE LABORATORIES, INC.



Getty Oil Company
P. O. Box 730
Hobbs, NM 88240

P. L. Moses
Manager
Reservoir Fluid Analysis

Attention: Mr. Jim Micikas

Subject: Reservoir Fluid Study
State 29-"J" No. 1 Well
Lea County, New Mexico
RFL 80853

Gentlemen:

Separator gas and liquid samples were collected from the State 29-"J" No. 1 Well by our representative on November 14, 1980. The samples were delivered to our laboratory in Dallas, where a reservoir fluid study was performed. The results of the study are presented on the following pages.

Before being sampled, the well was flowed for three days and gas and liquid rates were constantly monitored. The average gas-liquid ratio during this three-day test was 7975 standard cubic feet of separator gas per barrel of stock tank liquid. In the laboratory, it was determined that this ratio was equivalent to 5921 standard cubic feet of gas per barrel of separator liquid at 84°F. The compositions of the separator products were measured, and the well stream composition was calculated on the basis of the producing gas-liquid ratio.

The separator gas and liquid were physically recombined in the producing ratio and the resulting mixture was examined in a visual cell at the reservoir temperature of 200°F. The fluid was found to be a rich gas condensate system which had a dew point pressure of 5763 psig. Comparison of this pressure to the reported reservoir pressure of 9950 psig shows that the reservoir gas is highly undersaturated. The pressure-volume relations of the reservoir fluid were measured over a wide pressure range, and are reported on page three. The deviation factor of the gas was calculated at the dew point pressure and at all pressures above the dew point.

The reservoir fluid was subjected to a constant volume depletion process, during which the volume of retrograde liquid was measured at each depletion pressure. The maximum volume of retrograde liquid observed was 17.1 percent of the hydrocarbon pore space at 2100 psig.

Getty Oil Company
State 29-"J" No. 1 Well

Page Two

The above information was sent to you in preliminary form on February 3, and we were instructed to hold the samples. Since the reservoir fluid is a rich gas condensate system with a large amount of retrograde liquid, it is recommended that a complete depletion study should be performed. This would provide you with the fluid data necessary to perform accurate reservoir engineering calculations. Please let us know if you want us to continue the study or if the samples should be discarded.

Very truly yours,

CORE LABORATORIES, INC.

James R. Fortner

James R. Fortner
Assistant Manager
Reservoir Fluid Analysis

JRF:JB:km
6cc: Addressee

CORE LABORATORIES, INC.
Petroleum Reservoir Engineering
 DALLAS, TEXAS 75247

Page 1 of 6

File RFL 80853

Company Getty Oil Company Date Sampled November 14, 1980

Well State 29-"J" No. 1 County Lea

Field Undesignated State New Mexico

FORMATION CHARACTERISTICS

Formation Name	Wolfcamp
Date First Well Completed	October 27, 1980
Original Reservoir Pressure	PSIG @ _____ Ft.
Original Produced Gas-Liquid Ratio	SCF/Bbl
Production Rate	135 Bbls/Day
Separator Pressure and Temperature	PSIG _____ °F.
Liquid Gravity at 60°F.	54 °API
Datum	_____ Ft. Subsea

WELL CHARACTERISTICS

Elevation	3520 GL	Ft.
Total Depth	PB13429	Ft.
Producing Interval	13166-13236	Ft.
Tubing Size and Depth	2-7/8 In. to 12310	Ft.
Open Flow Potential	_____ MMSCF/Day	
Last Reservoir Pressure	9950 PSIG @ 13201	Ft.
Date	December 5, 1980	
Reservoir Temperature	200 °F. @ 13201	Ft.
Status of Well	Shut in	
Pressure Gauge	Amerada	

SAMPLING CONDITIONS*

Flowing Tubing Pressure	2200	PSIG
Flowing Bottom Hole Pressure	_____	PSIG
Primary Separator Pressure	790	PSIG
Primary Separator Temperature	84	°F.
Secondary Separator Pressure	_____	PSIG
Secondary Separator Temperature	_____	°F.
Field Stock Tank Liquid Gravity	54	°API @ 60°F.
Primary Separator Gas Production Rate	942.8	MSCF/Day
Pressure Base	15.025	PSIA
Temperature Base	60	°F.
Compressibility Factor (F_{pv})	1.0752	
Gas Gravity (Laboratory)	0.668	
Gas Gravity Factor (F_g)	1.2235	
Stock Tank Liquid Production Rate @ 60°F.	118.22	Bbls/Day
Primary Separator Gas/Stock Tank Liquid Ratio	7975	SCF/Bbl
or	125.39	Bbls/MMSCF
Sampled by	Teffteller, Inc.	

REMARKS:

*3-day averages.

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CORE LABORATORIES, INC.
Petroleum Reservoir Engineering
DALLAS, TEXAS 75247

Page 1 of 6

File RI 80853

Company Getty Oil Company Date Sampled November 14, 1980

Well State 29-"J" No. 1 County Lea

Field Undesignated State New Mexico

FORMATION CHARACTERISTICS

Formation Name	<u>Wolfcamp</u>
Date First Well Completed	<u>October 27</u> , 1980
Original Reservoir Pressure	<u> </u> PSIG @ <u> </u> Ft.
Original Produced Gas-Liquid Ratio	<u> </u> SCF/Bbl
Production Rate	<u>135</u> Bbls/Day
Separator Pressure and Temperature	<u> </u> PSIG <u> </u> °F.
Liquid Gravity at 60°F.	<u>54</u> °API
Datum	<u> </u> Ft. Subsea

WELL CHARACTERISTICS

Elevation	<u>3520 GL</u>	Ft.
Total Depth	<u>PB13429</u>	Ft.
Producing Interval	<u>13166-13236</u>	Ft.
Tubing Size and Depth	<u>2-7/8</u> In. to <u>12310</u>	Ft.
Open Flow Potential	<u> </u> MMSCF/Day	
Last Reservoir Pressure	<u>9950</u> PSIG @ <u>13201</u>	Ft.
Date	<u>December 5</u> , 1980	
Reservoir Temperature	<u>200</u> °F. @ <u>13201</u>	Ft.
Status of Well	<u>Shut in</u>	
Pressure Gauge	<u>Amerada</u>	

SAMPLING CONDITIONS*

Flowing Tubing Pressure	<u>2200</u>	PSIG
Flowing Bottom Hole Pressure	<u> </u>	PSIG
Primary Separator Pressure	<u>790</u>	PSIG
Primary Separator Temperature	<u>84</u>	°F.
Secondary Separator Pressure	<u> </u>	PSIG
Secondary Separator Temperature	<u> </u>	°F.
Field Stock Tank Liquid Gravity	<u>54</u>	°API @ 60°F.
Primary Separator Gas Production Rate	<u>942.8</u>	MSCF/Day
Pressure Base	<u>15.025</u>	PSIA
Temperature Base	<u>60</u>	°F.
Compressibility Factor (F _{pv})	<u>1.0752</u>	
Gas Gravity (Laboratory)	<u>0.668</u>	
Gas Gravity Factor (F _g)	<u>1.2235</u>	
Stock Tank Liquid Production Rate @ 60°F.	<u>118.22</u>	Bbls/Day
Primary Separator Gas/Stock Tank Liquid Ratio	<u>7975</u>	SCF/Bbl
or	<u>125.39</u>	Bbls/MMSCF
Sampled by	<u>Tefteller, Inc.</u>	

REMARKS:

*3-day averages.

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CORE LABORATORIES, INC.
Petroleum Reservoir Engineering
DALLAS, TEXAS 75247

Page 2 of 6

File RFL 80853

Well State 29-"J" No. 1

HYDROCARBON ANALYSES OF SEPARATOR PRODUCTS AND CALCULATED WELL STREAM

Component	Separator Liquid,	Separator Gas		Well Stream	
	Mol Percent	Mol Percent	GPM	Mol Percent	GPM
Hydrogen Sulfide	0.00	0.00		0.00	
Carbon Dioxide	0.08	0.15		0.14	
Nitrogen	0.05	0.77		0.67	
Methane	19.27	84.32		75.19	
Ethane	9.77	9.60	2.618	9.62	2.623
Propane	9.03	3.26	0.915	4.07	1.142
iso-Butane	2.58	0.47	0.157	0.77	0.257
n-Butane	6.22	0.85	0.273	1.60	0.514
iso-Pentane	2.37	0.19	0.071	0.50	0.187
n-Pentane	3.80	0.20	0.074	0.70	0.259
Hexanes	6.14	0.11	0.046	0.96	0.403
Heptanes plus	40.69	0.08	0.037	5.78	3.708
	<u>100.00</u>	<u>100.00</u>	<u>4.191</u>	<u>100.00</u>	<u>9.093</u>

Properties of Heptanes plus

API gravity @ 60°F.	<u>46.7</u>	
Density, Gm/Cc @ 60°F.	<u>0.7931</u>	<u>0.793</u>
Molecular weight	<u>161</u>	<u>161</u>

Calculated separator gas gravity (air=1.000) = 0.668
Calculated gross heating value for separator gas = 1198 BTU
per cubic foot of dry gas @ 15.025 psia and 60°F.

Primary separator gas collected @ 790 psig and 84 °F.
Primary separator liquid collected @ 790 psig and 84 °F.

Primary separator gas/separator liquid ratio 5921 SCF/Bbl @ 84°F.
Primary separator liquid/stock tank liquid ratio 1.347 Bbls @ 84°F./Bbl
Primary separator gas/well stream ratio 859.73 MSCF/MMSCF

CORE LABORATORIES, INC.
Petroleum Reservoir Engineering
 DALLAS, TEXAS 75247

Page 3 of 6

File RFL 80853

Well State 29-"J" No. 1

PRESSURE-VOLUME RELATIONS AT 200°F.
(Constant Composition Expansion)

Pressure, PSIG	Relative Volume	Deviation Factor, Z
10000	0.8453	1.421
9500	0.8557	1.367
9000	0.8711	1.318
8500	0.8844	1.264
8000	0.8974	1.207
7500	0.9169	1.157
7000	0.9365	1.103
6600	0.9540	1.060
6200	0.9740	1.016
6000	0.9852	0.995
5800	0.9977	0.974
5763 Dew Point Pressure	1.0000	0.970*
5600	1.0110	
5400	1.0261	
5000	1.0605	
4700	1.0935	
4200	1.1618	
3700	1.2576	
3200	1.3995	
2700	1.6180	
2200	1.9656	
1700	2.5596	
1363	3.2373	
1142	3.9071	
992	4.5357	

*Gas formation volume factor = 1.754 MSCF/Bbl.

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CORE LABORATORIES, INC.
Petroleum Reservoir Engineering
 DALLAS, TEXAS 75247

Page 4 of 6

File RFL 80853

Well State 29-"J" No. 1

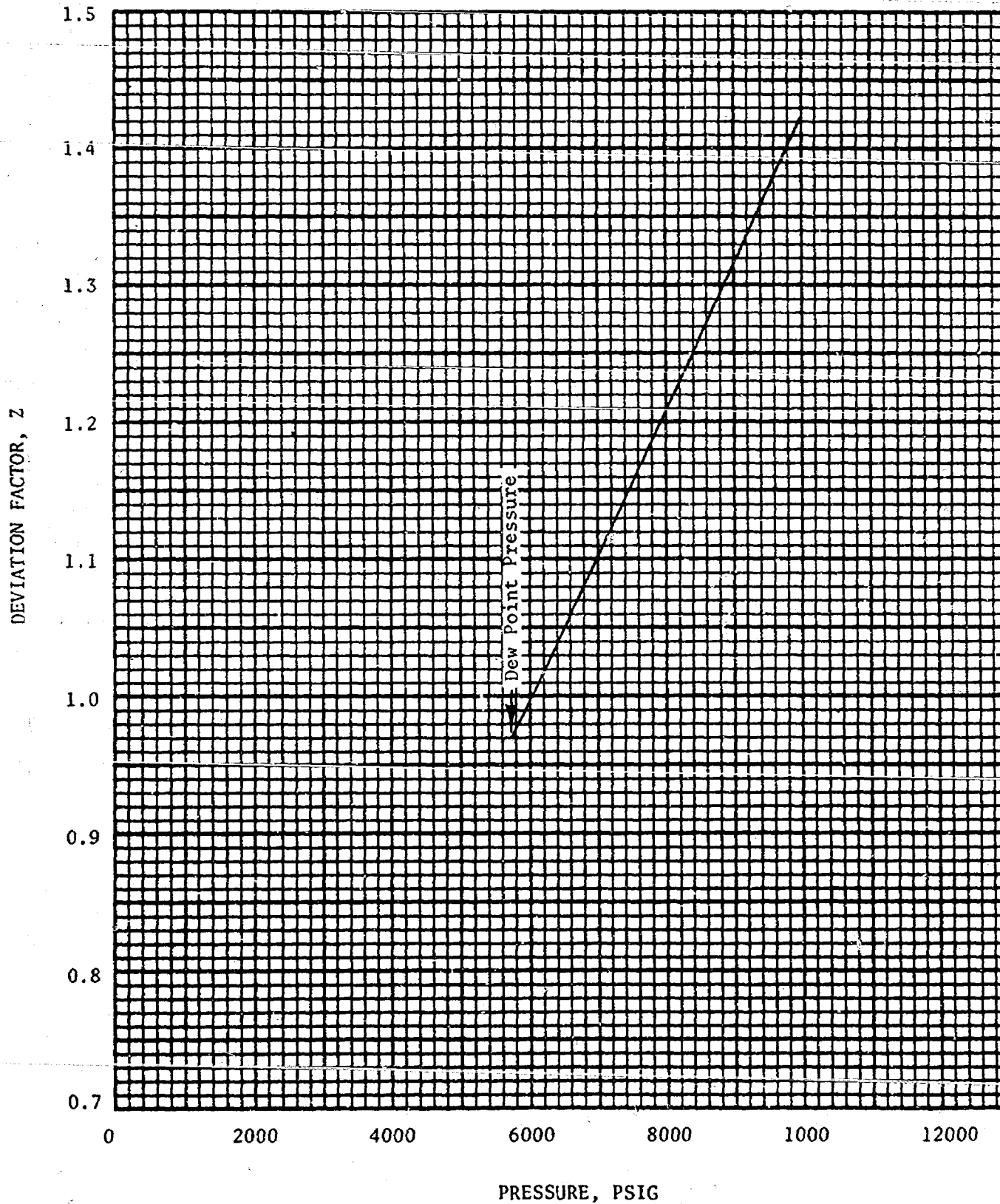
RETROGRADE CONDENSATION DURING GAS DEPLETION AT 200°F.

<u>Pressure,</u> <u>PSIG</u>	<u>Retrograde Liquid Volume,</u> <u>Percent of Hydrocarbon Pore Space</u>
5763 Dew Point Pressure	0.0
5600	0.5
5400	1.3
5000	4.0
4800 First Depletion Level	6.2
3900	13.5
3000	16.6
2100	17.1
1300	16.1
700	14.9
0	12.9

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DEVIATION FACTOR, Z

Company	GETTY OIL COMPANY	Formation	WOLFCAMP
Well	STATE 29-"J" NO. 1	County	LEA
Field	UNDESIGNATED	State	NEW MEXICO

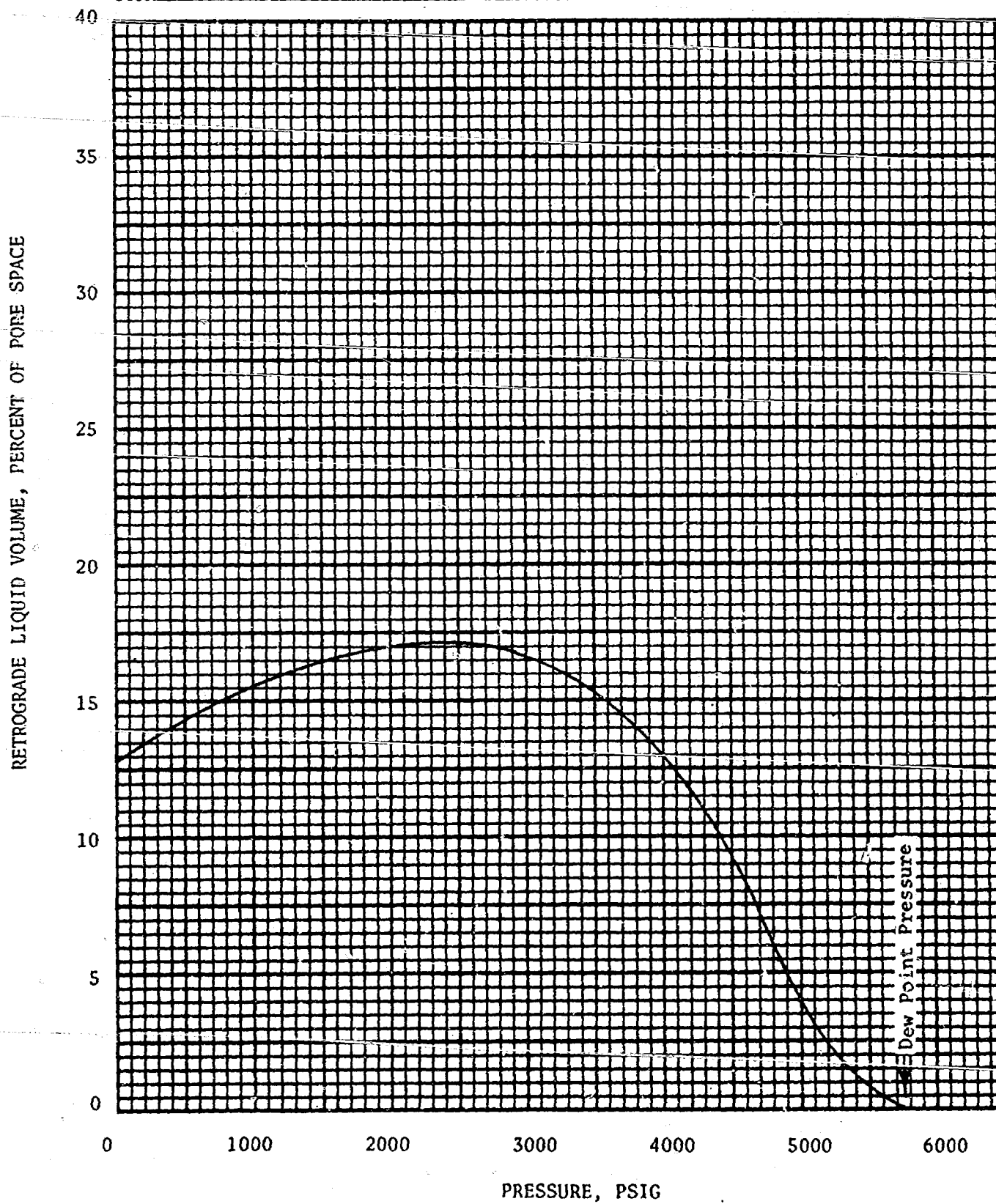


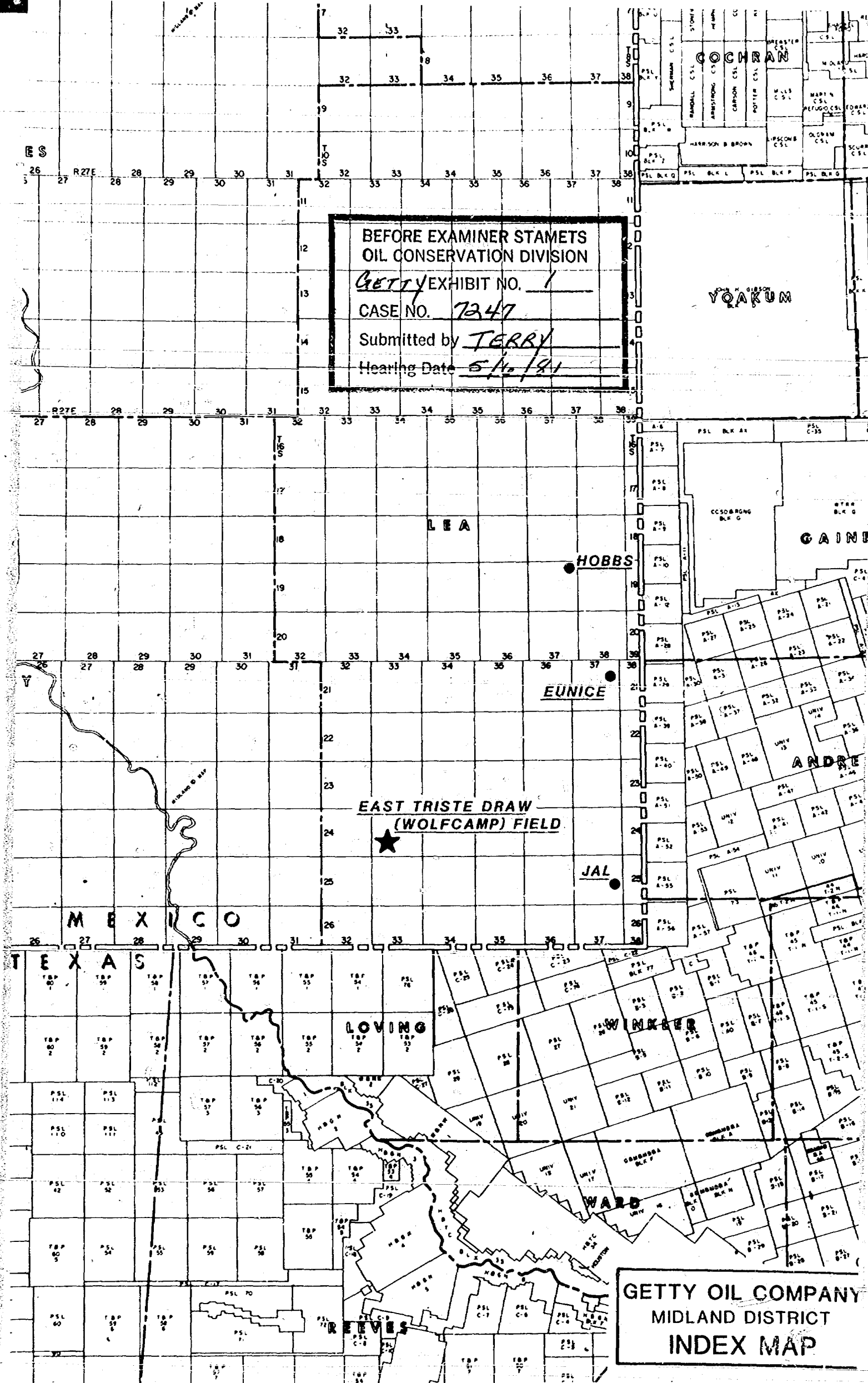
CORE LABORATORIES, INC.
Petroleum Reservoir Engineering
DALLAS, TEXAS

Page 6 of 6
File RFL 80853

RETROGRADE LIQUID VOLUME

Company	GETTY OIL COMPANY	Formation	WOLFCAMP
Well	STATE 29-"J" NO. 1	County	LEA
Field	UNDESIGNATED	State	NEW MEXICO





BEFORE EXAMINER STAMETS
OIL CONSERVATION DIVISION

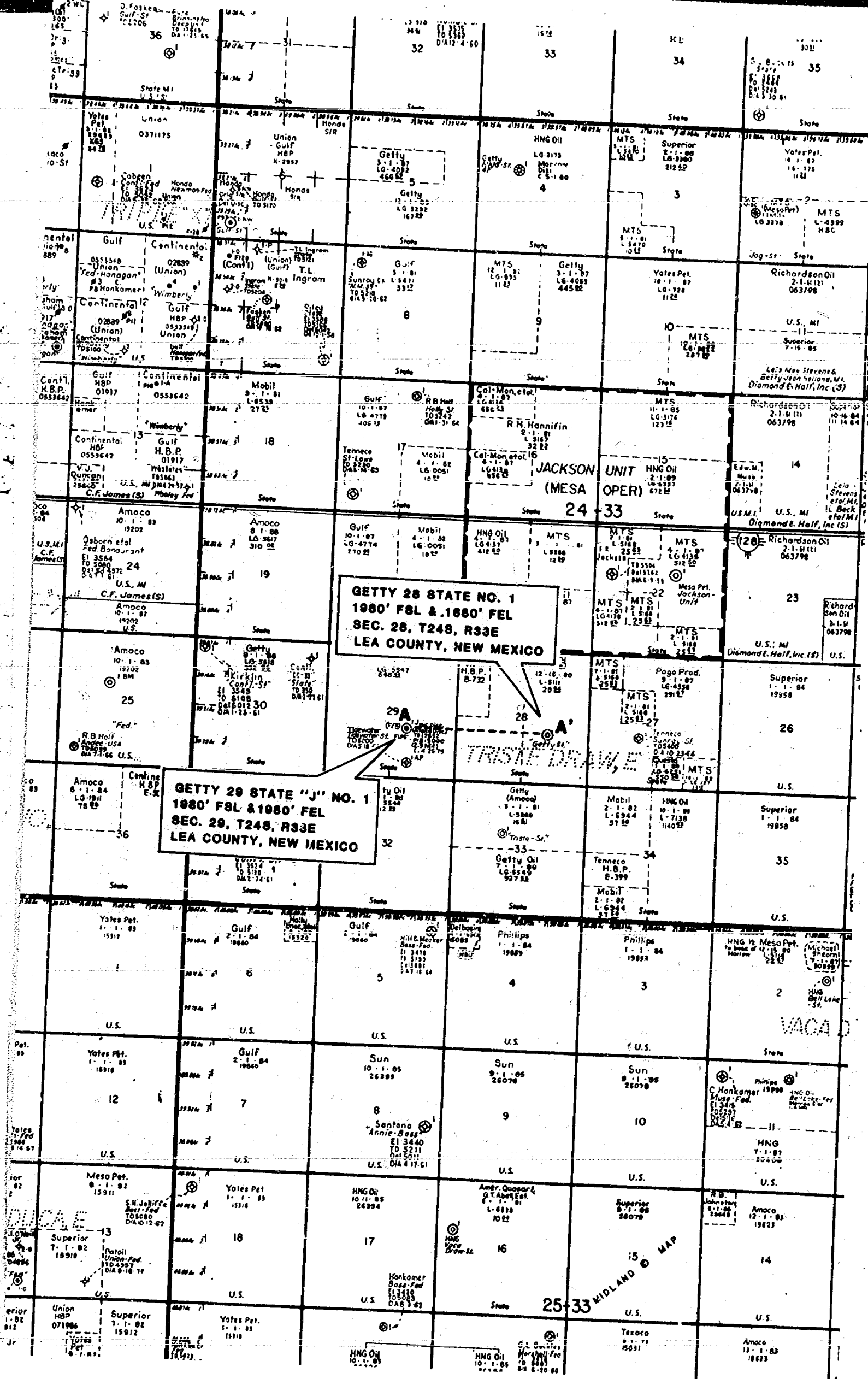
GETTY EXHIBIT NO. 1

CASE NO. 7347

Submitted by TERRY

Hearing Date 5/10/81

GETTY OIL COMPANY
MIDLAND DISTRICT
INDEX MAP





Getty Oil Company

Well Diagram: Getty State 29 "J" Well No. 1

Central Exploration and Production Division

Measurements taken from KB 23.5' above ground level.

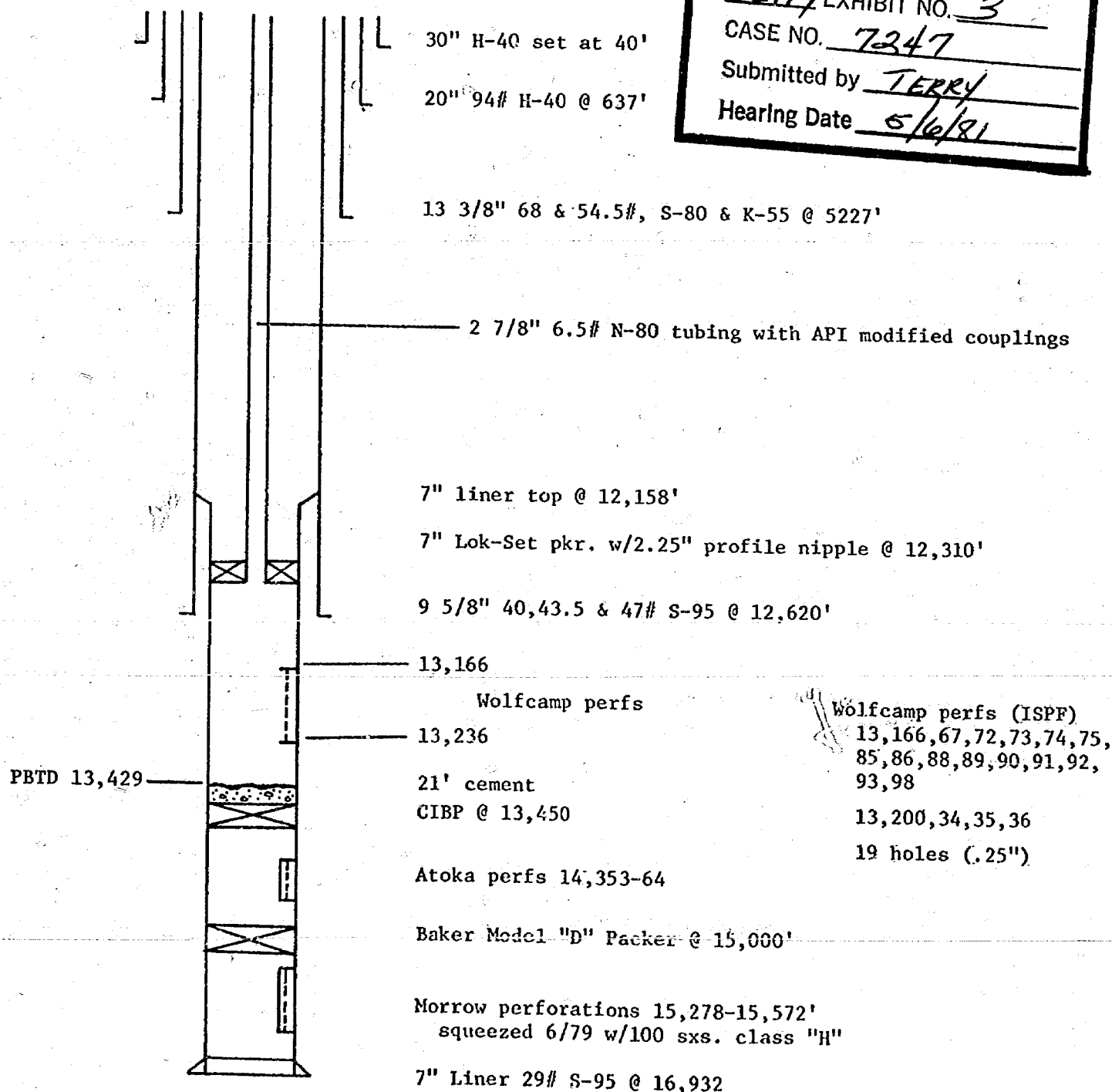
BEFORE EXAMINER STAMETS
OIL CONSERVATION DIVISION

GETTY/EXHIBIT NO. 3

CASE NO. 7247

Submitted by TERRY

Hearing Date 5/6/81



GETTY STATE 29 "J" No. 1
WEEKLY AVERAGE GAS PRODUCTION (FT.³ PD)

1,700,000
1,600,000
1,500,000
1,400,000
1,300,000
1,200,000
1,100,000
1,000,000
900,000
800,000
700,000
600,000
500,000
400,000
300,000
200,000
100,000

AG 3013

FT.³ / L

1 YEAR BY WEEKS
MONTHLY AVERAGE

NOV. 1980 DEC. 1980 JAN. 1981 FEB. 1981 MAR. 1981

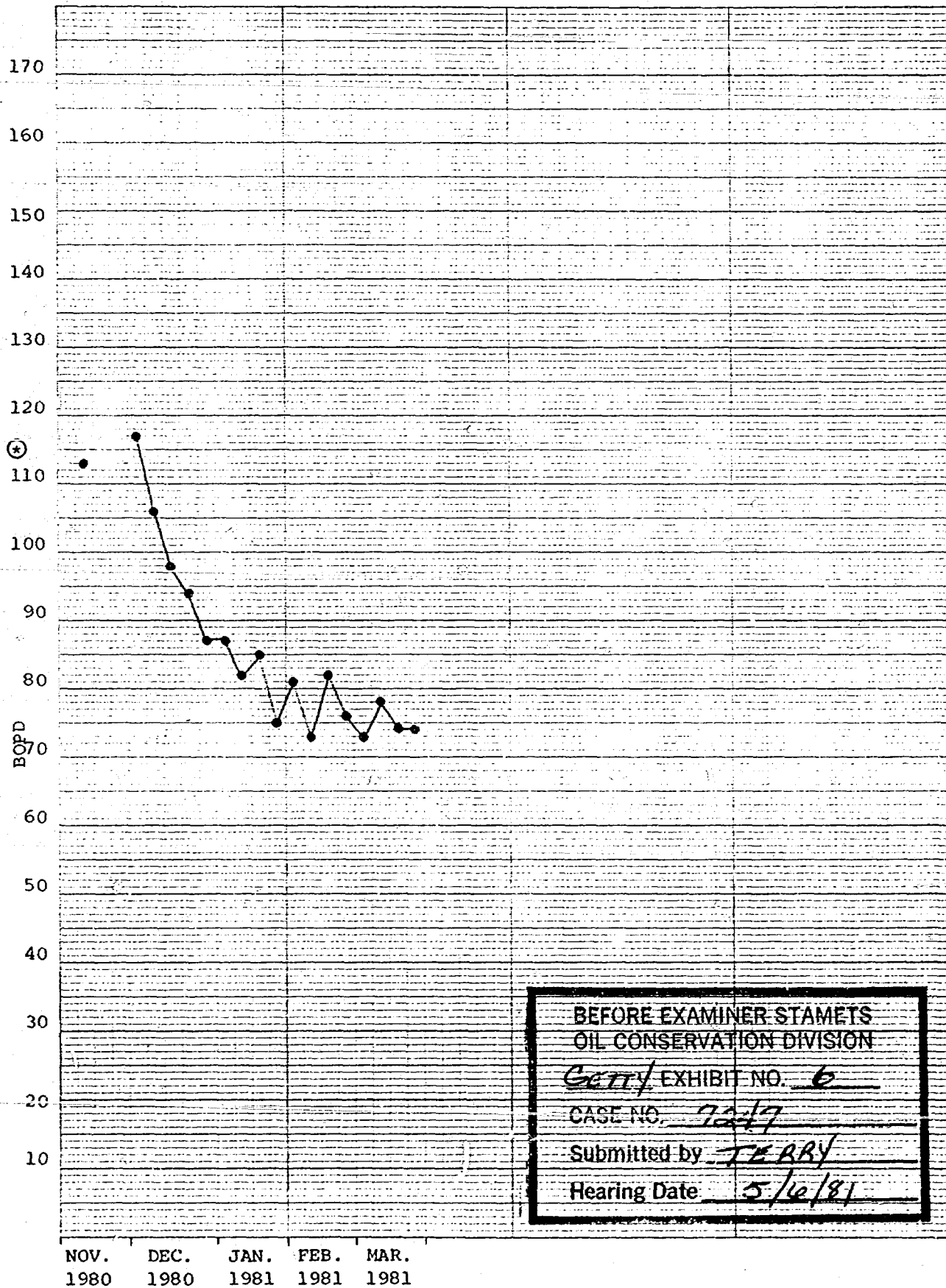
⊙ Shut-in for pressure build-up

BEFORE EXAMINER STAMETS
OIL CONSERVATION DIVISION
GETTY EXHIBIT NO. 5
CASE NO. 7247
Submitted by TERRY
Hearing Date 5/6/81

GETTY STATE 29 "J" No. 1
WEEKLY AVERAGE OIL PRODUCTION (LOPD)

46 3013

1 YEAR HISTORY BY WEEKLY AVERAGE OIL PRODUCTION (LOPD)



BEFORE EXAMINER STAMETS
OIL CONSERVATION DIVISION

GETTY EXHIBIT NO. 6

CASE NO. 72-17

Submitted by JERRY

Hearing Date 5/6/81

(*) Shut-in for pressure build-up

CORE LABORATORIES, INC.
Petroleum Reservoir Engineering
DALLAS, TEXAS 75247

Reservoir Fluid Study
GETTY OIL COMPANY
State 29-"J" No. 1 Well
Lea County, New Mexico
RFL 80853

BEFORE EXAMINER STAMETS OIL CONSERVATION DIVISION	
GETTY	EXHIBIT NO. <u>4</u>
CASE NO. <u>7247</u>	
Submitted by <u>McDERMOTT</u>	
Hearing Date <u>5/6/81</u>	

March 3, 1981

CORE LABORATORIES, INC.



Getty Oil Company
P. O. Box 730
Hobbs, NM 88240

P. L. Moses
Manager
Reservoir Fluid Analysis

Attention: Mr. Jim Micikas

Subject: Reservoir Fluid Study
State 29-"J" No. 1 Well
Lea County, New Mexico
RFL 80853

Gentlemen:

Separator gas and liquid samples were collected from the State 29-"J" No. 1 Well by our representative on November 14, 1980. The samples were delivered to our laboratory in Dallas, where a reservoir fluid study was performed. The results of the study are presented on the following pages.

Before being sampled, the well was flowed for three days and gas and liquid rates were constantly monitored. The average gas-liquid ratio during this three-day test was 7975 standard cubic feet of separator gas per barrel of stock tank liquid. In the laboratory, it was determined that this ratio was equivalent to 5921 standard cubic feet of gas per barrel of separator liquid at 84°F. The compositions of the separator products were measured, and the well stream composition was calculated on the basis of the producing gas-liquid ratio.

The separator gas and liquid were physically recombined in the producing ratio and the resulting mixture was examined in a visual cell at the reservoir temperature of 200°F. The fluid was found to be a rich gas condensate system which had a dew point pressure of 5763 psig. Comparison of this pressure to the reported reservoir pressure of 9950 psig shows that the reservoir gas is highly undersaturated. The pressure-volume relations of the reservoir fluid were measured over a wide pressure range, and are reported on page three. The deviation factor of the gas was calculated at the dew point pressure and at all pressures above the dew point.

The reservoir fluid was subjected to a constant volume depletion process, during which the volume of retrograde liquid was measured at each depletion pressure. The maximum volume of retrograde liquid observed was 17.1 percent of the hydrocarbon pore space at 2100 psig.

Getty Oil Company
State 29-"J" No. 1 Well

Page Two

The above information was sent to you in preliminary form on February 3, and we were instructed to hold the samples. Since the reservoir fluid is a rich gas condensate system with a large amount of retrograde liquid, it is recommended that a complete depletion study should be performed. This would provide you with the fluid data necessary to perform accurate reservoir engineering calculations. Please let us know if you want us to continue the study or if the samples should be discarded.

Very truly yours,

CORE LABORATORIES, INC.

James R. Fortner

James R. Fortner
Assistant Manager
Reservoir Fluid Analysis

JRF:JB:km
6cc: Addressee

CORE LABORATORIES, INC.
Petroleum Reservoir Engineering
DALLAS, TEXAS 75247

Page 1 of 6

File RFL 80853

Company Getty Oil Company Date Sampled November 14, 1980

Well State 29-"J" No. 1 County Lea

Field Undesignated State New Mexico

FORMATION CHARACTERISTICS

Formation Name	<u>Wolfcamp</u>
Date First Well Completed	<u>October 27</u> , 1980
Original Reservoir Pressure	<u> </u> PSIG @ <u> </u> Ft.
Original Produced Gas-Liquid Ratio	<u> </u> SCF/Bbl
Production Rate	<u>135</u> Bbls/Day
Separator Pressure and Temperature	<u> </u> PSIG <u> </u> °F.
Liquid Gravity at 60°F.	<u>54</u> °API
Datum	<u> </u> Ft. Subsea

WELL CHARACTERISTICS

Elevation	<u>3520 GL</u>	Ft.
Total Depth	<u>PB13429</u>	Ft.
Producing Interval	<u>13166-13236</u>	Ft.
Tubing Size and Depth	<u>2-7/8</u> In. to <u>12310</u>	Ft.
Open Flow Potential	<u> </u> MMSCF/Day	
Last Reservoir Pressure	<u>9950</u> PSIG @ <u>13201</u>	Ft.
Date	<u>December 5</u> , 1980	
Reservoir Temperature	<u>200</u> °F. @ <u>13201</u>	Ft.
Status of Well	<u>Shut in</u>	
Pressure Gauge	<u>Amerada</u>	

SAMPLING CONDITIONS*

Flowing Tubing Pressure	<u>2200</u>	PSIG
Flowing Bottom Hole Pressure	<u> </u>	PSIG
Primary Separator Pressure	<u>790</u>	PSIG
Primary Separator Temperature	<u>84</u>	°F.
Secondary Separator Pressure	<u> </u>	PSIG
Secondary Separator Temperature	<u> </u>	°F.
Field Stock Tank Liquid Gravity	<u>54</u>	°API @ 60°F.
Primary Separator Gas Production Rate	<u>542.8</u>	MSCF/Day
Pressure Base	<u>15.025</u>	PSIA
Temperature Base	<u>60</u>	°F.
Compressibility Factor (F _{pv})	<u>1.0752</u>	
Gas Gravity (Laboratory)	<u>0.668</u>	
Gas Gravity Factor (F _g)	<u>1.2235</u>	
Stock Tank Liquid Production Rate @ 60°F.	<u>118.22</u>	Bbls/Day
Primary Separator Gas/Stock Tank Liquid Ratio	<u>7975</u>	SCF/Bbl
or	<u>125.39</u>	Bbls/MMSCF
Sampled by	<u>Tefteller, Inc.</u>	

REMARKS:

*3-day averages.

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CORE LABORATORIES, INC.
Petroleum Reservoir Engineering
 DALLAS, TEXAS 75247

Page 1 of 6

File RFL 80853

Company Getty Oil Company Date Sampled November 14, 1980
 Well State 29-"J" No. 1 County Lea
 Field Undesignated State New Mexico

FORMATION CHARACTERISTICS

Formation Name	<u>Wolfcamp</u>
Date First Well Completed	<u>October 27</u> , 1980
Original Reservoir Pressure	<u> </u> PSIG @ <u> </u> Ft.
Original Produced Gas-Liquid Ratio	<u> </u> SCF/Bbl
Production Rate	<u>135</u> Bbls/Day
Separator Pressure and Temperature	<u> </u> PSIG <u> </u> °F.
Liquid Gravity at 60°F.	<u>54</u> °API
Datum	<u> </u> Ft. Subsea

WELL CHARACTERISTICS

Elevation	<u>3520 GL</u>	Ft.
Total Depth	<u>PB13429</u>	Ft.
Producing Interval	<u>13166-13236</u>	Ft.
Tubing Size and Depth	<u>2-7/8</u> In. to <u>12310</u>	Ft.
Open Flow Potential	<u> </u> MMSCF/Day	
Last Reservoir Pressure	<u>9950</u> PSIG @ <u>13201</u>	Ft.
Date	<u>December 5</u> , 1980	
Reservoir Temperature	<u>200</u> °F. @ <u>13201</u>	Ft.
Status of Well	<u>Shut in</u>	
Pressure Gauge	<u>Amerada</u>	

SAMPLING CONDITIONS*

Flowing Tubing Pressure	<u>2200</u>	PSIG
Flowing Bottom Hole Pressure	<u> </u>	PSIG
Primary Separator Pressure	<u>790</u>	PSIG
Primary Separator Temperature	<u>84</u>	°F.
Secondary Separator Pressure	<u> </u>	PSIG
Secondary Separator Temperature	<u> </u>	°F.
Field Stock Tank Liquid Gravity	<u>54</u>	°API @ 60°F.
Primary Separator Gas Production Rate	<u>942.8</u>	MSCF/Day
Pressure Base	<u>15.025</u>	PSIA
Temperature Base	<u>60</u>	°F.
Compressibility Factor (F_{pv})	<u>1.0752</u>	
Gas Gravity (Laboratory)	<u>0.668</u>	
Gas Gravity Factor (F_g)	<u>1.2235</u>	
Stock Tank Liquid Production Rate @ 60°F.	<u>118.22</u>	Bbls/Day
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REMARKS:

*3-day averages.

These analyses, opinions or interpretations are based on observations and material supplied by the client to whom, and for whose exclusive and confidential use, this report is made. The interpretations or opinions expressed represent the best judgment of Core Laboratories, Inc. (all errors and omissions excepted); but Core Laboratories, Inc. and its officers and employees, assume no responsibility and make no warranty or representations as to the productivity, proper operation, or profitability of any oil, gas or other mineral well or sand in connection with which such report is used or relied upon.

CORE LABORATORIES, INC.
Petroleum Reservoir Engineering
DALLAS, TEXAS 75247

Page 2 of 6

File RFL 80853

Well State 29-"J" No. 1

HYDROCARBON ANALYSES OF SEPARATOR PRODUCTS AND CALCULATED WELL STREAM

Component	Separator Liquid,	Separator Gas		Well Stream	
	Mol Percent	Mol Percent	GPM	Mol Percent	GPM
Hydrogen Sulfide	0.00	0.00		0.00	
Carbon Dioxide	0.08	0.15		0.14	
Nitrogen	0.05	0.77		0.67	
Methane	19.27	84.32		75.19	
Ethane	9.77	9.60	2.618	9.62	2.623
Propane	9.03	3.26	0.915	4.07	1.142
iso-Butane	2.58	0.47	0.157	0.77	0.257
n-Butane	6.22	0.85	0.273	1.60	0.514
iso-Pentane	2.37	0.19	0.071	0.50	0.187
n-Pentane	3.80	0.20	0.074	0.70	0.259
Hexanes	6.14	0.11	0.046	0.96	0.403
Heptanes plus	40.69	0.08	0.037	5.78	3.708
	100.00	100.00	4.191	100.00	9.093

Properties of Heptanes plus

API gravity @ 60°F.	46.7		
Density, Gm/Cc @ 60°F.	0.7931		0.793
Molecular weight	161	103	161

Calculated separator gas gravity (air=1.000) = 0.668
Calculated gross heating value for separator gas = 1198 BTU
per cubic foot of dry gas @ 15.025 psia and 60°F.

Primary separator gas collected @ 790 psig and 84 °F.
Primary separator liquid collected @ 790 psig and 84 °F.

Primary separator gas/separator liquid ratio 5921 SCF/Bbl @ 84°F.
Primary separator liquid/stock tank liquid ratio 1.347 Bbls @ 84°F./Bbl
Primary separator gas/well stream ratio 859.73 MSCF/MMSCF

CORE LABORATORIES, INC.
Petroleum Reservoir Engineering
 DALLAS, TEXAS 75247

Page 3 of 6

File RFL 80853

Well State 29-J No. 1

PRESSURE-VOLUME RELATIONS AT 200°F.
(Constant Composition Expansion)

Pressure, PSIG	Relative Volume	Deviation Factor, Z
10000	0.8453	1.421
9500	0.8557	1.367
9000	0.8711	1.318
8500	0.8844	1.264
8000	0.8974	1.207
7500	0.9169	1.157
7000	0.9365	1.103
6600	0.9540	1.060
6200	0.9740	1.016
6000	0.9852	0.995
5800	0.9977	0.974
5763 Dew Point Pressure	1.0000	0.970*
5600	1.0110	
5400	1.0261	
5000	1.0605	
4700	1.0935	
4200	1.1618	
3700	1.2576	
3200	1.3995	
2700	1.6180	
2200	1.9656	
1700	2.5596	
1363	3.2373	
1142	3.9071	
992	4.5357	

*Gas formation volume factor = 1.754 MSCF/Bbl.

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CORE LABORATORIES, INC.
Petroleum Reservoir Engineering
DALLAS, TEXAS 75247

Page 4 of 6

File RFL 80853

Well State 29--"J" No. 1

RETROGRADE CONDENSATION DURING GAS DEPLETION AT 200°F.

<u>Pressure,</u> <u>PSIG</u>	<u>Retrograde Liquid Volume,</u> <u>Percent of Hydrocarbon Pore Space</u>
5763 Dew Point Pressure	0.0
5600	0.5
5400	1.3
5000	4.0
4800 First Depletion Level	6.2
3900	13.5
3000	16.6
2100	17.1
1300	16.1
700	14.9
0	12.9

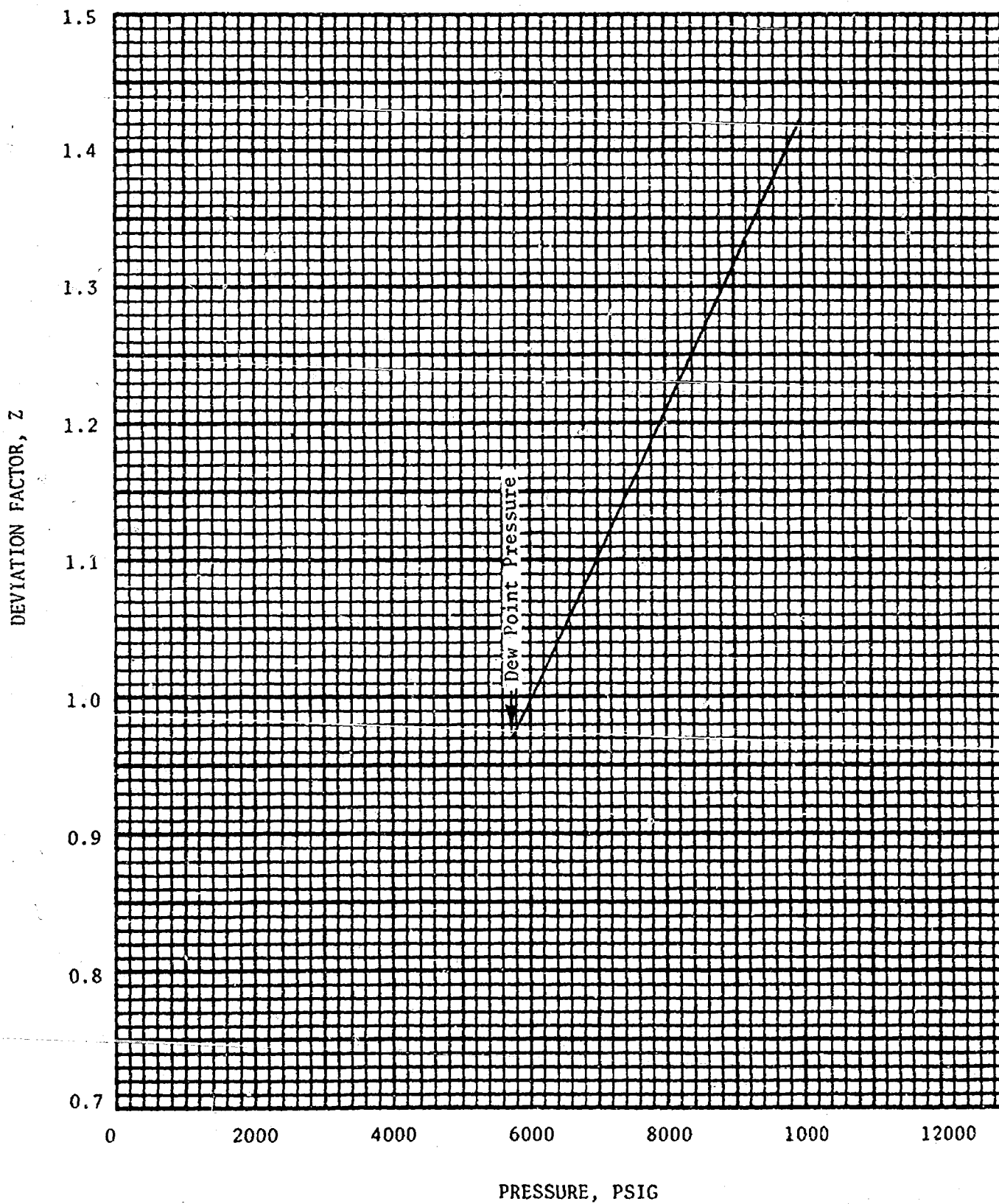
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Petroleum Reservoir Engineering
DALLAS, TEXAS

Page 5 of 6
 File RFL 80853

DEVIATION FACTOR, Z

Company	GETTY OIL COMPANY	Formation	WOLFCAMP
Well	STATE 29-"J" NO. 1	County	LEA
Field	UNDESIGNATED	State	NEW MEXICO

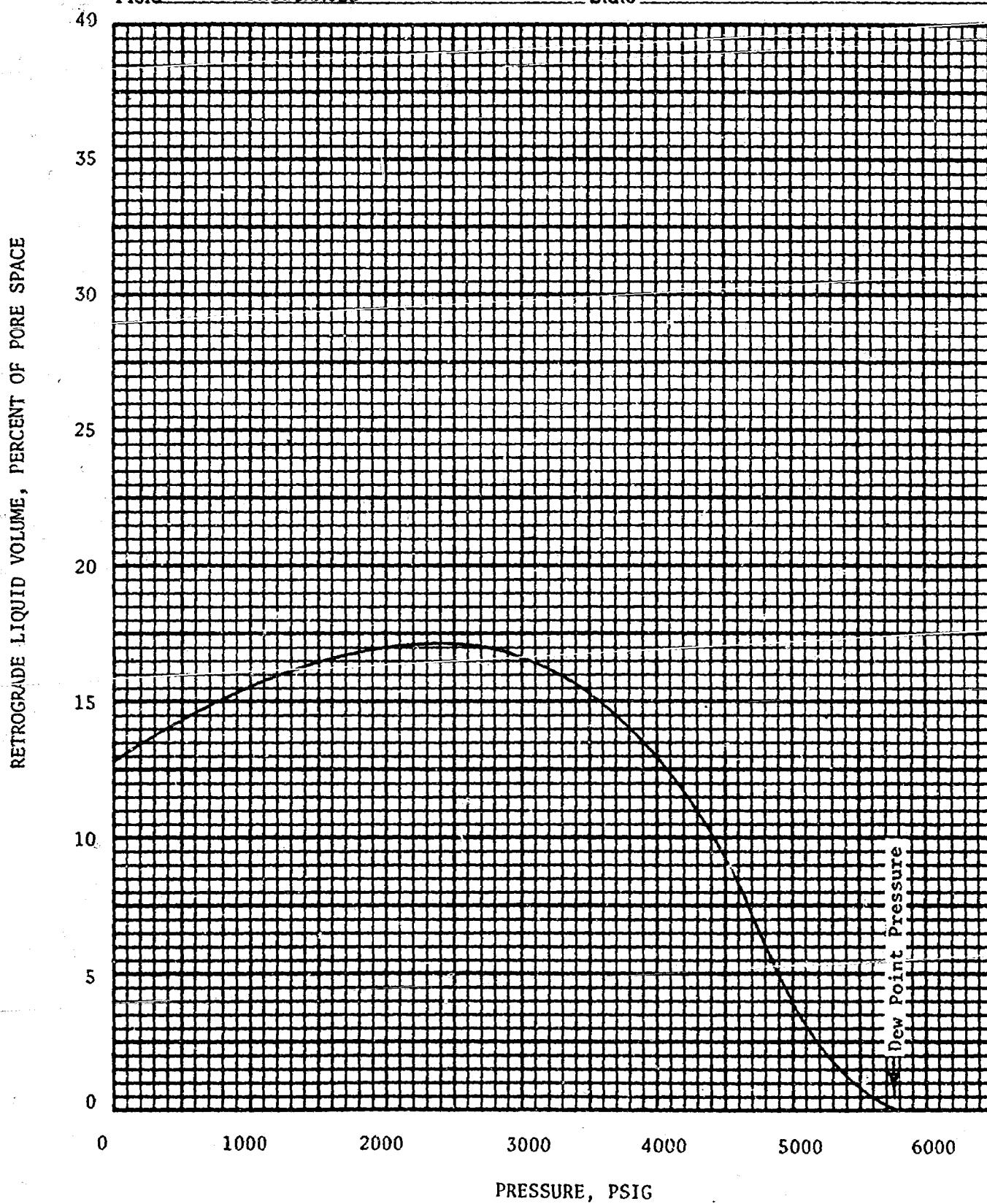


CORE LABORATORIES, INC.
Petroleum Reservoir Engineering
DALLAS, TEXAS

Page 6 of 6
File RFL 80853

RETROGRADE LIQUID VOLUME

Company	GETTY OIL COMPANY	Formation	WOLFCAMP
Well	STATE 29-"J" NO. 1	County	LEA
Field	UNDESIGNATED	State	NEW MEXICO





Getty Oil Company

Well Diagram: Getty State 29 "J" Well No. 1

Central Exploration and Production Division

Measurements taken from KB 23.5' above ground level.

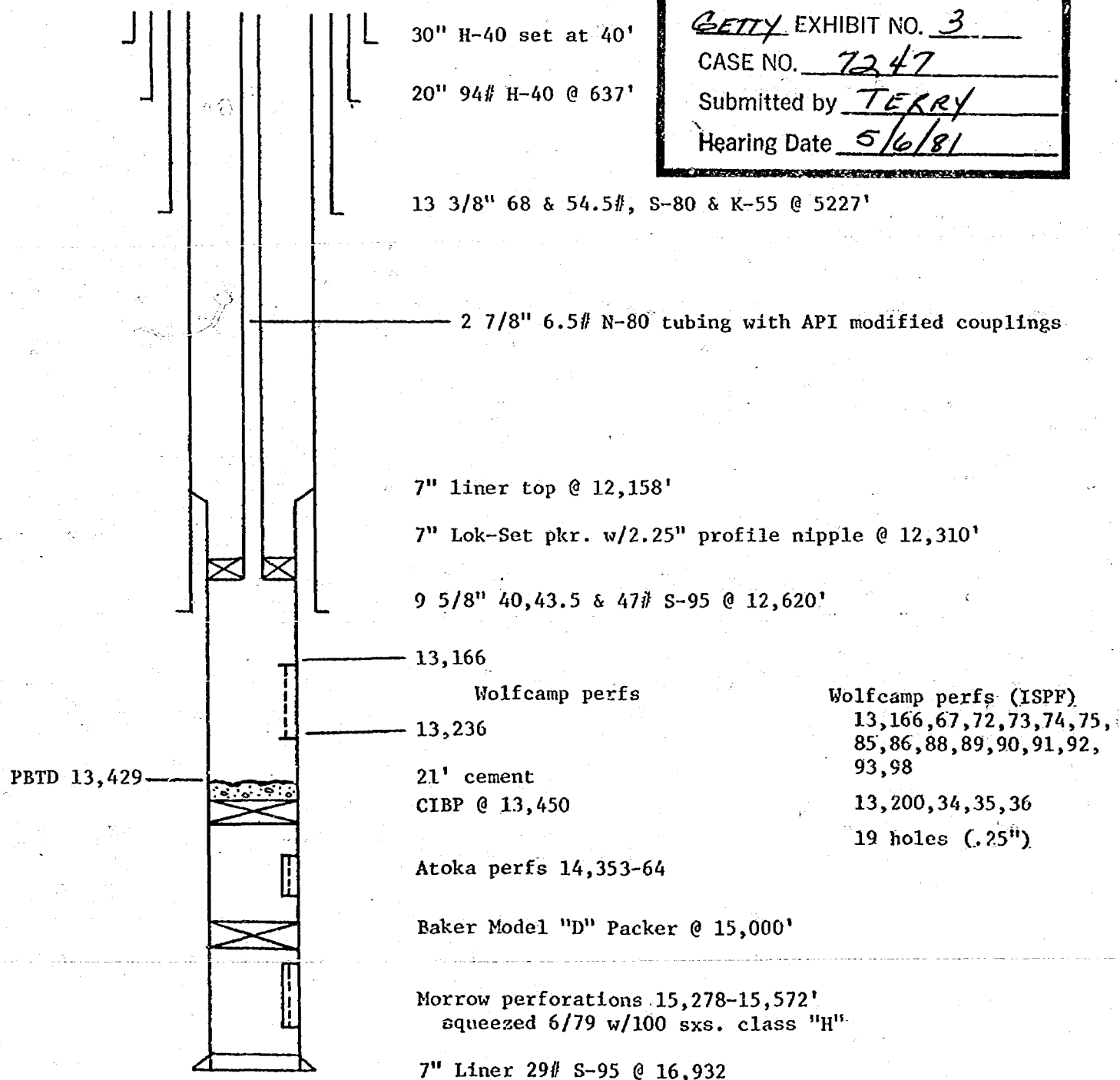
BEFORE EXAMINER STAMETS
OIL CONSERVATION DIVISION

GETTY EXHIBIT NO. 3

CASE NO. 7247

Submitted by TERRY

Hearing Date 5/6/81





Getty Oil Company

Well Diagram: Getty State 29 "J" Well No. 1

Central Exploration and Production Division

Measurements taken from KB 23.5' above ground level.

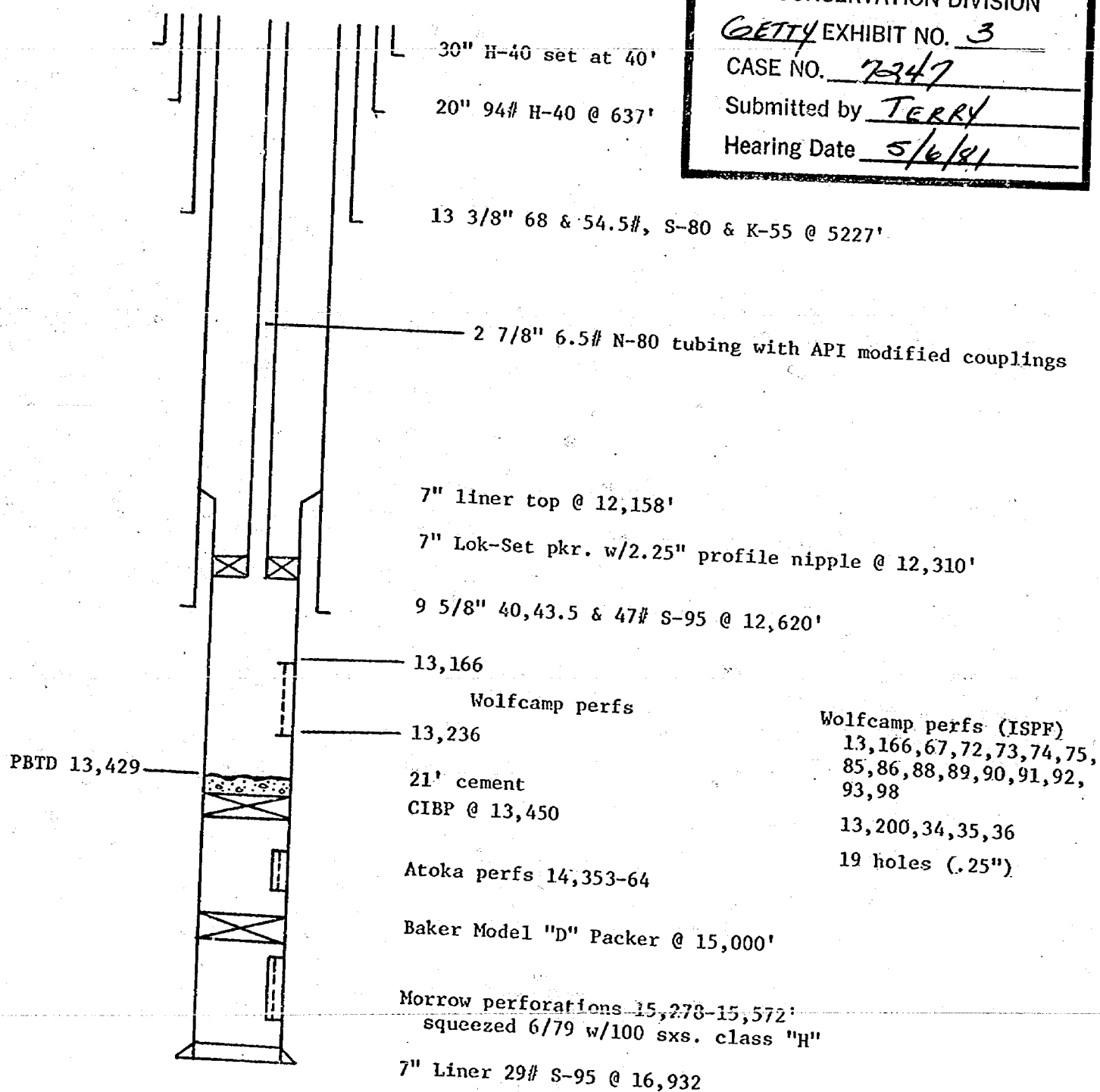
BEFORE EXAMINER STAMETS
OIL CONSERVATION DIVISION

GETTY EXHIBIT NO. 3

CASE NO. 7347

Submitted by TERRY

Hearing Date 5/6/81





Getty Oil Company

Well Diagram: Getty State 29 "J" Well No. 1

Central Exploration and Production Division

Measurements taken from KB 23.5' above ground level.

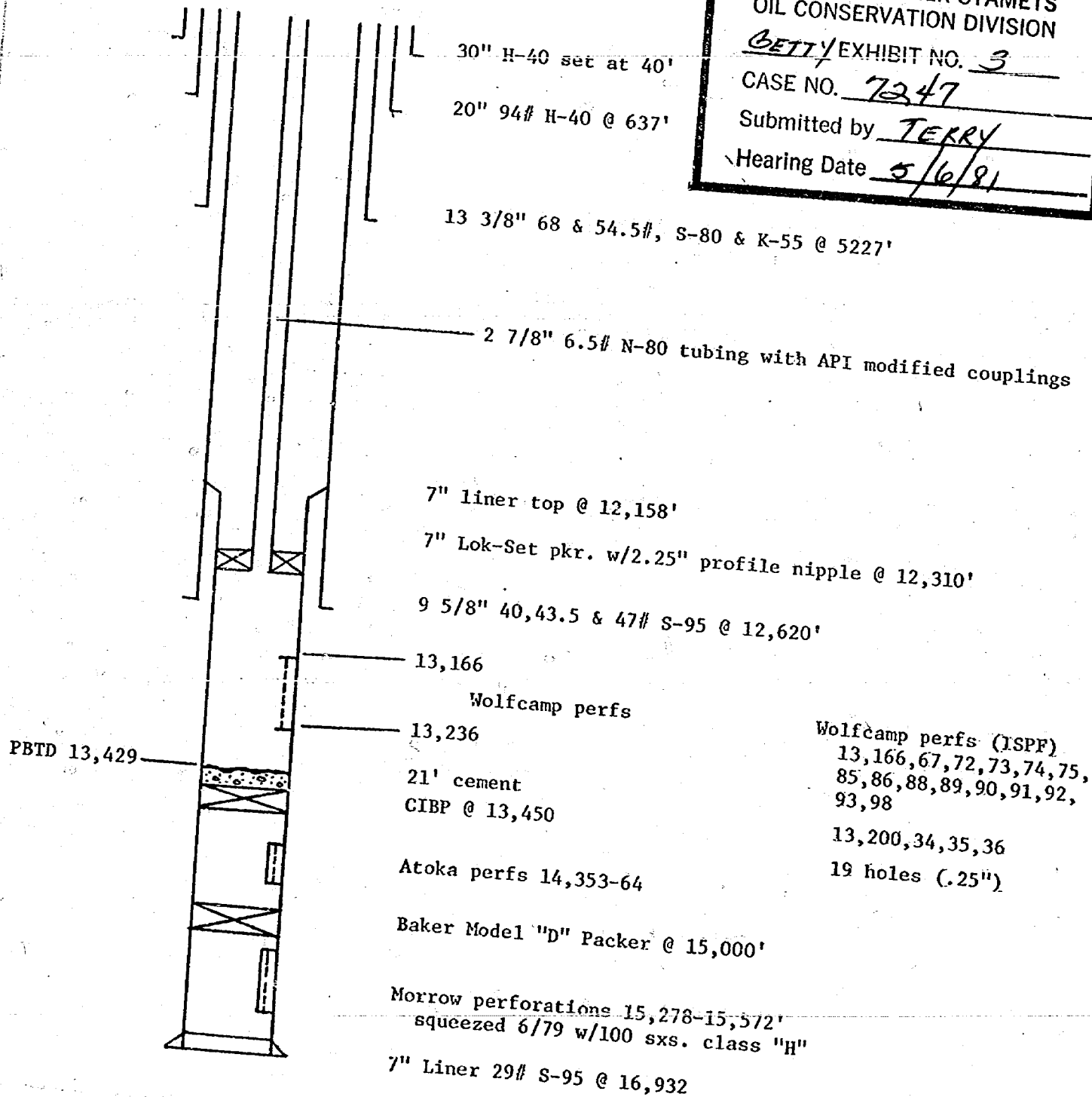
BEFORE EXAMINER STAMETS
OIL CONSERVATION DIVISION

GETTY/EXHIBIT NO. 3

CASE NO. 7247

Submitted by TERRY

Hearing Date 5/6/81





Getty Oil Company

Well Diagram: Getty State 29 "J" Well No. 1

Central Exploration and Production Division

Measurements taken from KB 23.5' above ground level.

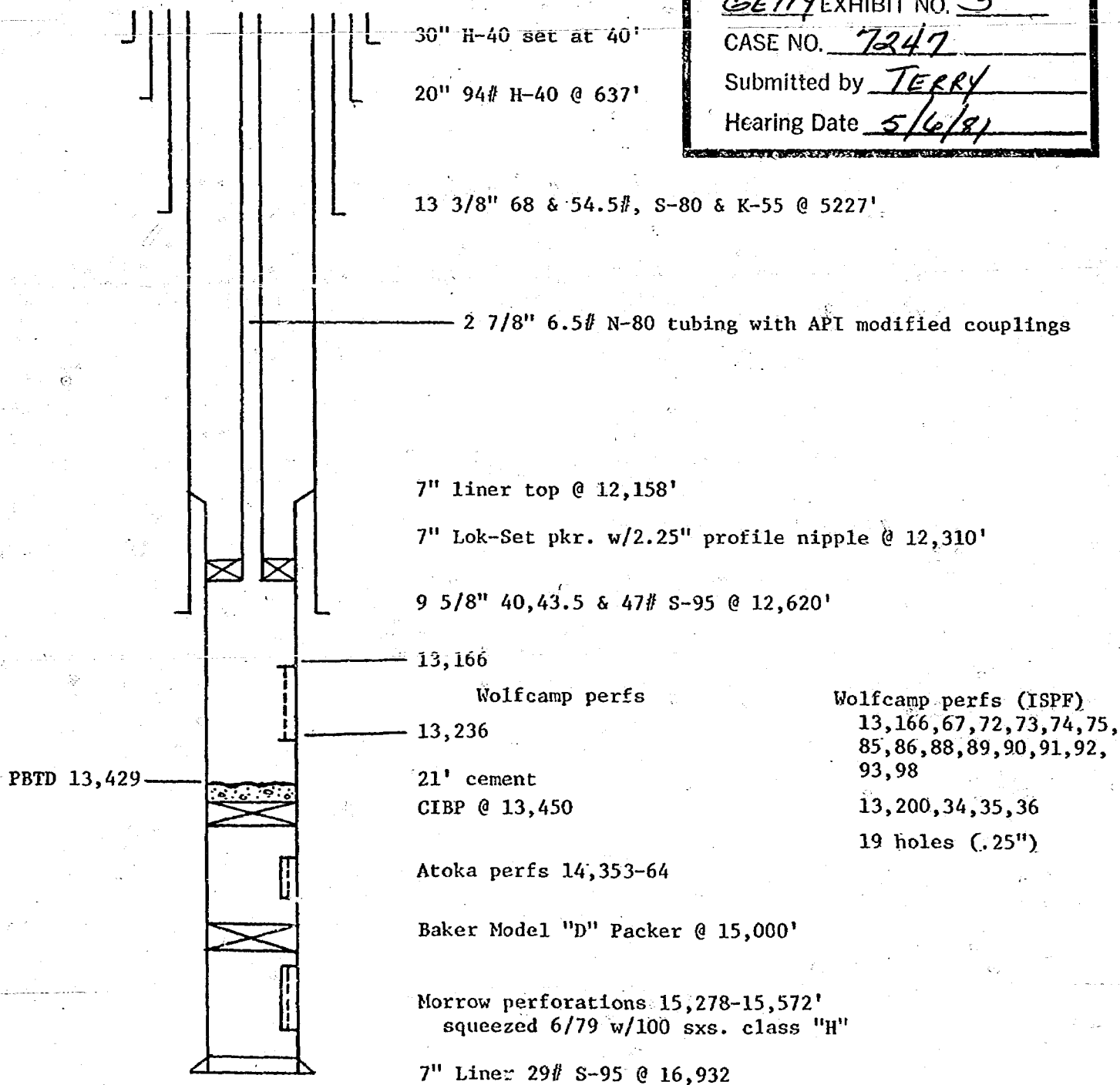
BEFORE EXAMINER STAMETS
OIL CONSERVATION DIVISION

GETTY EXHIBIT NO. 3

CASE NO. 7247

Submitted by TERRY

Hearing Date 5/6/81



- CASE 7244:** Application of Crescent Energy Corp. for an unorthodox oil well location and non-standard oil production unit, Roosevelt County, New Mexico. Applicant, in the above-styled cause, seeks approval for the unorthodox Bough "C" location of a well to be drilled 2630 feet from the North line and 1980 feet from the East line of Section 32, Township 8 South, Range 37 East, Allison-Pennsylvanian Field, the SW/4 NE/4 and NW/4 SE/4 of said Section 32 to be dedicated to the well.
- CASE 7245:** Application of The Superior Oil Company for compulsory pooling, Lea County, New Mexico. Applicant, in the above-styled cause, seeks an order pooling all mineral interests in the Morrow formation underlying the N/2 of Section 21, Township 20 South, Range 35 East, 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, designation of applicant as operator of the well, and a charge for risk involved in drilling said well. (This case will be dismissed.)
- CASE 7246:** Application of Getty Oil Company for a dual completion, Lea County, New Mexico. Applicant, in the above-styled cause, seeks approval for the dual completion of its Getty 32 State Com. Well No. 1 located in Unit C of Section 32, Township 21 South, Range 32 East, to produce gas from the Atoka and Morrow formations.
- CASE 7247:** Application of Getty Oil Company for a gas well classification, Lea County, New Mexico. Applicant, in the above-styled cause, seeks the reclassification of its State 29-J Well No. 1, an oil well located in Unit J of Section 29, Township 24 South, Range 33 East, as a retrograde gas condensate well with the S/2 of said Section 29 to be dedicated to the well.
- CASE 7248:** Application of Inexco Oil Company for pool creation, special pool rules, and an oil discovery allowable, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks the creation of a new Wolfcamp oil pool for its Federal 10 State Com. Well No. 1 located in Unit L of Section 10, Township 21 South, Range 26 East, and the promulgation of special rules therefor, including provisions for 160-acre spacing. Applicant further seeks the assignment of approximately 42,290 barrels of discovery allowable to the aforesaid well.
- CASE 7249:** Application of Southland Royalty Company for compulsory pooling, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks an order pooling all mineral interests in the Wolfcamp and Pennsylvanian formations underlying the N/2 of Section 21, Township 18 South, Range 29 East, 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, designation of applicant as operator of the well, and a charge for risk involved in drilling said well.
- CASE 7250:** Application of Southland Royalty Company for compulsory pooling, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks an order pooling all mineral interests in the Pennsylvanian formation underlying the N/2 of Section 22, Township 18 South, Range 29 East, 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, designation of applicant as operator of the well, and a charge for risk involved in drilling said well.
- CASE 7251:** Application of Southern Union Exploration Company of Texas for compulsory pooling, Rio Arriba County, New Mexico. Applicant, in the above-styled cause, seeks an order pooling all mineral interests in the West Puerto Chiquito-Mancos Oil Pool underlying all of Section 36, Township 24 North, Range 1 West, to be dedicated to its Mobil Federal Well No. 1 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, designation of applicant as operator of the well, and a charge for risk involved in drilling said well.
- CASE 7252:** Application of Four Corners Gas Producers Association for designation of a tight formation, San Juan and Rio Arriba Counties, New Mexico. Applicant, in the above-styled cause, seeks the designation of the Dakota formation underlying portions of Townships 24 and 25 North, Ranges 7, 8, 9, and 10 West, containing 135,040 acres, more or less, as a tight formation pursuant to Section 107 of the Natural Gas Policy Act and 18 CFR Section 271.701-705.

Dockets Nos. 16-81 and 17-81 are tentatively set for May 20 and June 3, 1981. Applications for hearing must be filed at least 22 days in advance of hearing date.

DOCKET: EXAMINER HEARING - WEDNESDAY - MAY 6, 1981

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

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

- CASE 7235: Application of Public Lands Exploration Inc. for a unit agreement, Guadalupe County, New Mexico. Applicant, in the above-styled cause, seeks approval for the O'Connell Ranch Unit Area, comprising 640 acres, more or less, of State and fee lands in Township 11 North, Range 25 East, said unit being for the purpose of conducting an enhanced oil recovery project by the injection of steam.
- CASE 7236: Application of Belco Petroleum Corporation for a dual completion, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks approval for the dual completion of its James Ranch Well No. 11 located in Unit E of Section 36, Township 22 South, Range 30 East, to produce gas from the Atoka and Morrow formations thru parallel strings of tubing.
- CASE 7237: Application of Conoco Inc. for a dual completion, Lea County, New Mexico. Applicant, in the above-styled cause, seeks approval for the dual completion of its State F-1 Well No. 10 located in Unit V of Section 1, Township 21 South, Range 36 East, to produce oil from the Hardy-Drinkard Pool and an undesignated Tubb pool thru parallel strings of tubing.
- CASE 7238: Application of Holly Energy, Inc. for directional drilling and an unorthodox gas well location, Lea County, New Mexico. Applicant, in the above-styled cause, seeks authority to directionally drill its Salt Lake South Deep Well No. 1, the surface location of which is 2189 feet from the North line and 500 feet from the East line of Section 6, Township 21 South, Range 32 East, South Salt Lake-Morrow Gas Pool, in a northerly direction to bottom it within 150 feet of the center of Unit A (Lot 1) of said Section 6, Lots 1 thru 8 to be dedicated to the well.
- CASE 7239: Application of Troy Strickland and E. V. Isbell for a non-standard proration unit, San Juan County, New Mexico. Applicant, in the above-styled cause, seeks approval of a 75.5-acre non-standard proration unit comprising Lot 3 and that portion of Lot 4 North of the San Juan River mid-channel, all in Section 14, Township 29 North, Range 15 West, to be dedicated to a well to be drilled at a standard location thereon.
- CASE 7240: Application of El Paso Natural Gas Company for downhole commingling, San Juan County, New Mexico. Applicant, in the above-styled cause, seeks approval for the downhole commingling of Fruitland and Blanco-Pictured Cliffs production in the wellbore of its Sunray B Well No. 6 located in Unit G of Section 1, Township 30 North, Range 10 West.
- CASE 7241: Application of Harvey E. Yates Company for an unorthodox gas well location, Lea County, New Mexico. Applicant, in the above-styled cause, seeks approval for the unorthodox Mississippian location of its Austin State 18 Well No. 1 to be drilled 1980 feet from the South line and 1650 feet from the East line of Section 18, Township 14 South, Range 36 East, the S/2 of said Section 18 to be dedicated to the well.
- CASE 7242: Application of Harvey E. Yates Company for an unorthodox gas well location, Lea County, New Mexico. Applicant, in the above-styled cause, seeks approval for the unorthodox Wolfcamp-Pennsylvanian location of its McDonald Well No. 1 to be drilled 660 feet from the South line and 990 feet from the East line of Section 33, Township 13 South, Range 36 East, the S/2 of said Section 33 to be dedicated to the well.
- CASE 7243: Application of Harvey E. Yates Company for compulsory pooling, Lea County, New Mexico. Applicant, in the above-styled cause, seeks an order pooling all mineral interests in the Pennsylvanian and Mississippian formations underlying the S/2 of Section 33, Township 13 South, Range 36 East, for a gas completion and/or all mineral interests in the Devonian formation underlying the SE/4 SE/4 of said Section 33 for an oil completion. 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, designation of applicant as operator of the well, and a charge for risk involved in drilling said well.
- CASE 7217: (Continued from April 8, 1981, Examiner Hearing)
- Application of Harvey E. Yates Company for an unorthodox gas well location, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks approval for the unorthodox Morrow location of its Travis Ohio State Com Well No. 1 to be drilled 660 feet from the South and West lines of Section 13, Township 18 South, Range 28 East, the S/2 of said Section 13 to be dedicated to the well.

CAMPBELL, BYRD & BLACK, P.A.
LAWYERS

JACK M. CAMPBELL
HARL D. BYRD
BRUCE D. BLACK
MICHAEL B. CAMPBELL
WILLIAM F. CARR
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TELEPHONE: (505) 988-4421
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RECEIVED
APR 15 1981
OIL CONSERVATION DIVISION
April 14, 1981 AFE

Mr. Joe D. Ramey
Division Director
Oil Conservation Division
New Mexico Department of
Energy and Minerals
Post Office Box 2088
Santa Fe, New Mexico 87501

Case 7247

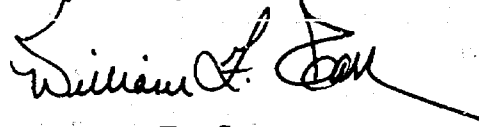
Re: Application of Getty Oil Company for a
Gas Well Classification, Lea County, New Mexico

Dear Mr. Ramey:

Enclosed in triplicate is the application of Getty Oil
Company in the above-referenced matter.

The applicant requests that this matter be included on the
docket for the examiner hearing scheduled to be held on
May 6, 1981.

Very truly yours,


William F. Carr

WFC:1r

Enclosures

cc: Mr. Herman Terry

BEFORE THE
OIL CONSERVATION DIVISION
NEW MEXICO DEPARTMENT OF ENERGY AND MINERALS

RECEIVED
APR 15 1981
SANTA FE

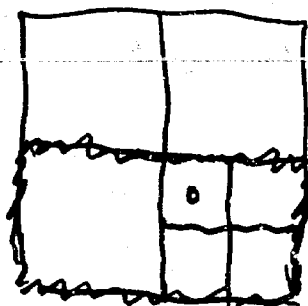
IN THE MATTER OF THE APPLICATION
OF GETTY OIL COMPANY FOR A GAS
WELL CLASSIFICATION. LEA COUNTY,
NEW MEXICO.

Case 7247

APPLICATION

Comes now, GETTY OIL COMPANY, by and through its under-
signed attorneys, and hereby makes an application for an order
classifying applicant's State 20-J Well as a gas well, and in
support thereof would show the following:

1. Applicant owns the working interest covering the S/2
of Section 29, Township 24 South, Range 33 East, N.M.P.M.,
Lea County, New Mexico.
2. Applicant heretofore received from the Oil Con-
servation Division a permit to drill a well at an
orthodox location in the NW/4 SE/4 of said Section 29.
3. Applicant drilled its Getty State 29-J Well No. 1
at a location 1980 feet from the South and East lines
of said Section 29 and completed said well in the Morrow
formation.
4. The Morrow formation does not produce in commercial
quantities and applicant has recompleted said well in
the Wolfcamp formation through perforations from 13,166
feet to 13,236 feet.



5. Applicant believes that the Wolfcamp reservoir into which the Getty State 29-J Well No. 1 has been completed is a gas reservoir subject to retrograde condensation phenomenon.

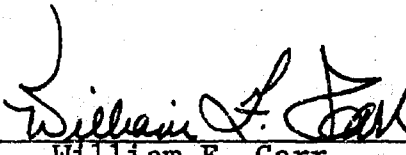
6. The granting of this application will protect correlative rights and will provide for the maximum recovery of hydrocarbons, thereby preventing waste.

WHEREFORE, Applicant prays that this application be set for hearing on May 6, 1981, before the Division's duly appointed examiner and that after notice and hearing as required by law, the Division enter its order granting the application and making such other and further provisions as may be proper in the premises.

Respectfully submitted,

CAMPBELL, BYRD AND BLACK, P.A.

By


William F. Carr
Post Office Box 2208
Santa Fe, New Mexico 87501
Attorneys for Applicant

BEFORE THE
OIL CONSERVATION DIVISION
NEW MEXICO DEPARTMENT OF ENERGY AND MINERALS

RECEIVED
APR 15 1981

IN THE MATTER OF THE APPLICATION
OF GETTY OIL COMPANY FOR A GAS
WELL CLASSIFICATION, LEA COUNTY,
NEW MEXICO.

Case 7247

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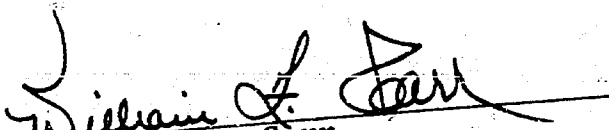
1. Applicant owns the working interest covering the S/2
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2. Applicant heretofore received from the Oil Con-
servation Division a permit to drill a well at an
orthodox location in the NW/4 SE/4 of said Section 29.
3. Applicant drilled its Getty State 29-J Well No. 1
at a location 1980 feet from the South and East lines
of said Section 29 and completed said well in the Morrow
formation.
4. The Morrow formation does not produce in commercial
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the Wolfcamp formation through perforations from 13,166
feet to 13,236 feet.

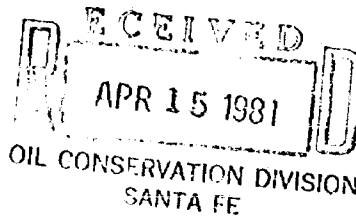
5. Applicant believes that the Wolfcamp reservoir into which the Getty State 29-J Well No. 1 has been completed is a gas reservoir subject to retrograde condensation phenomenon.

6. The granting of this application will protect correlative rights and will provide for the maximum recovery of hydrocarbons, thereby preventing waste.

WHEREFORE, Applicant prays that this application be set for hearing on May 6, 1981, before the Division's duly appointed examiner and that after notice and hearing as required by law, the Division enter its order granting the application and making such other and further provisions as may be proper in the premises.

Respectfully submitted,
CAMPBELL, BYRD AND BLACK, P.A.

By 
William F. Carr
Post Office Box 2208
Santa Fe, New Mexico 87501
Attorneys for Applicant



BEFORE THE
OIL CONSERVATION DIVISION
NEW MEXICO DEPARTMENT OF ENERGY AND MINERALS

IN THE MATTER OF THE APPLICATION
OF GETTY OIL COMPANY FOR A GAS
WELL CLASSIFICATION, LEA COUNTY,
NEW MEXICO.

Case 7247

APPLICATION

Comes now, GETTY OIL COMPANY, by and through its undersigned attorneys, and hereby makes an application for an order classifying applicant's State 20-J Well as a gas well, and in support thereof would show the following:

1. Applicant owns the working interest covering the S/2 of Section 29, Township 24 South, Range 33 East, N.M.P.M., Lea County, New Mexico.
2. Applicant heretofore received from the Oil Conservation Division a permit to drill a well at an orthodox location in the NW/4 SE/4 of said Section 29.
3. Applicant drilled its Getty State 29-J Well No. 1 at a location 1980 feet from the South and East lines of said Section 29 and completed said well in the Morrow formation.
4. The Morrow formation does not produce in commercial quantities and applicant has recompleted said well in the Wolfcamp formation through perforations from 13,166 feet to 13,236 feet.

5. Applicant believes that the Wolfcamp reservoir into which the Getty State 29-J Well No. 1 has been completed is a gas reservoir subject to retrograde condensation phenomenon.

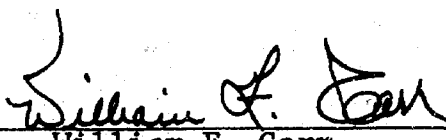
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WHEREFORE, Applicant prays that this application be set for hearing on May 6, 1981, before the Division's duly appointed examiner and that after notice and hearing as required by law, the Division enter its order granting the application and making such other and further provisions as may be proper in the premises.

Respectfully submitted,

CAMPBELL, BYRD AND BLACK, P.A.

By


William F. Carr
Post Office Box 2208
Santa Fe, New Mexico 87501
Attorneys for Applicant

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. 7247

Order No. R-6725
NOMENCLATURE

APPLICATION OF GETTY OIL COMPANY
FOR A GAS WELL CLASSIFICATION, LEA
COUNTY, NEW MEXICO.

ORDER OF THE DIVISION

BY THE DIVISION:

This cause came on for hearing at 9 a.m. on May 6, 1981,
at Santa Fe, New Mexico, before Examiner Richard L. Stamets.

NOW, on this _____ day of May, 1981, 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, Getty Oil Company, seeks the
reclassification of its State 29-J Well No. 1, an oil
well located in Unit J of Section 29, Township 24 South,
Range 33 East, as a retrograde gas condensate well with the
S/2 of said Section 29 to be dedicated to the well.

(3) That said State 29-J Well No 1 was plugged back and completed in the Wolf camp formation on November 3, 1980.

(4) That based upon the completion gas-liquid ratio, the Division classified said well as an oil well and created the East Trieste Draw-Wolfcamp Pool, therefore, by its Order No R-6623, ~~entered~~ ~~Order~~ effective April 1, 1981.

(5) That the evidence presented establishes that the State 29-J Well No. 1 produces from a retrograde gas condensate reservoir.

(6) That said East Trieste Draw-Wolfcamp Pool should be redesignated as a gas reservoir and extended to include the entire S/2 of said Section 29.

(7) That approval of the application and the redesignation of said pool will not cause waste nor violate correlative rights.

IT IS HEREOFRE ORDERED:

- (1) That The East Triste Draw-Wolfcamp Pool as previously defined and described is hereby redesignated as a gas pool rather than an oil pool.
- (2) That said East Triste Draw-Wolfcamp Pool is hereby extended to include therein the SW/4 of Section 29, Township 24 South, Range 33 East, NM PM, Lea County, New Mexico.
- (3) That the effective date of this ~~order shall be June 1, 1981~~ order and the redesignation and extension included therein shall be June 1, 1981.