

BEFORE EXAMINER STOGNER  
OIL CONSERVATION DIVISION

Westbrook EXHIBIT NO. 1

CASE NO. 8999

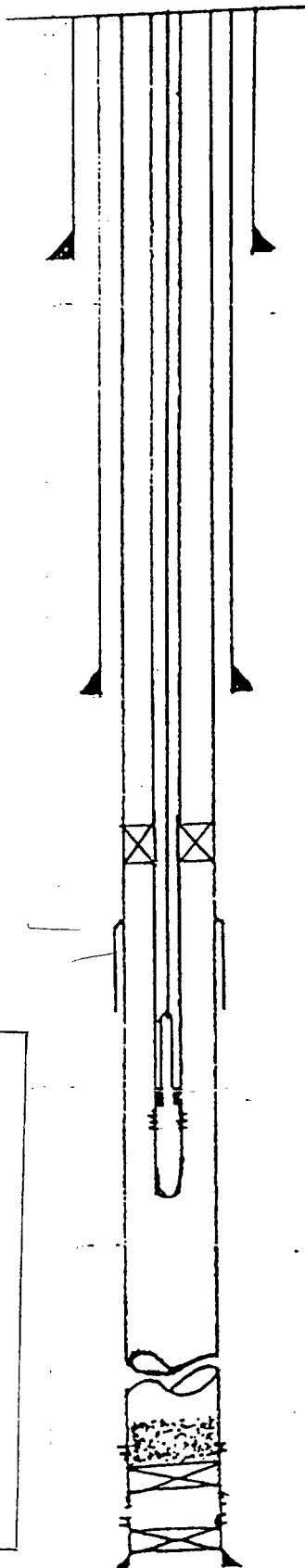
R 30 E

LEGEND

- CO<sub>2</sub> Wells Not Shown
- Wildcat Below 5000' or Discovery
- Location
- ★ Abandoned Producer
- Complete — Producing Oil
- ★ Completed — Producing Gas
- Dry & Abandoned

V. H. WESTBROOK  
KINAHAN FEDERAL #1  
660 FSL - 1980 FEL Unit 0  
Section 20, T-15-S, R-30-E

*Dev. small + P+H's  
Reentered and con  
\$400,000.00  
25% sug back so far*



13-3/8" set at 478' cement w/600 sxs circulated

8-5/8" set at 2959' cement w/800sxs circulated

2-7/8" x 5-1/2" tbg. anchor at 7917'

Bowen csg. patch at 8035' cement w/75sxs

5-1/2" csg. perfs. (8060' to 8070'), 10 holes  
1", 7/8" & 3/4" rods w/ 2-1/2" x 1-3/4" x 20' pump

seating nipple 8225'

tbg. perfs. 8226' - 8230'

end 2-7/8" tbg. 8262'

top sand 9600'

5-1/2" csg. perfs. 9838' - 9848' 20 holes

CIBP at 9910' top w/ 50' cement

5-1/2" csg. perfs. 9928' to 9941' 20 holes

5-1/2" csg. perfs. 10,116' to 10,175' 34 holes

plug back. depth 10,200'

5-1/2" set at 11,157' cemented w/ 300 sk

*(stream) no production*

*no flow  
production*

CASE NO. 8999  
Westbrook EXHIBIT NO. 2  
BEFORE EXAMINER STOGNER  
OIL COMPANY, DIVISION



APPLICATION FOR CLASSIFICATION AS HARDSHIP GAS WELL

Operator V. H. Westbrook, Oil Operator Contact Party V. H. Westbrook  
Address P. O. Box 2264 Hobbs, New Mexico 88241 Phone No. (505)393-9714  
Lease Kinahan Federal Well No. 1 UT 0 Sec. 20 TWP 15-S RGE 30-E  
Well Name West Cedar Point Wolfcamp Gas Minimum Rate Requested 350 MCF  
Transporter Name Cabot Corporation Purchaser (if different) \_\_\_\_\_

Are you seeking emergency "hardship" classification for this well? XX yes \_\_\_\_\_ no

Applicant must provide the following information to support his contention that the subject well qualifies as a hardship gas well.

Provide a statement of the problem that leads the applicant to believe that "underground waste" will occur if the subject well is shut-in or is curtailed below its ability to produce. (The definition of underground waste is shown on the reverse side of this form)

Document that you as applicant have done all you reasonably and economically can do to eliminate or prevent the problem(s) leading to this application.

- a) Well history. Explain fully all attempts made to rectify the problem. If no attempts have been made, explain reasons for failure to do so.
- b) Mechanical condition of the well (provide wellbore sketch). Explain fully mechanical attempts to rectify the problem, including but not limited to:
  - i) the use of "smallbore" tubing; ii) other de-watering devices, such as plunger lift, rod pumping units, etc.

Present historical data which demonstrates conditions that can lead to waste. Such data should include:

- a) Permanent loss of productivity after shut-in periods (i.e., formation damage).
- b) Frequency of swabbing required after the well is shut-in or curtailed.
- c) Length of time swabbing is required to return well to production after being shut-in.
- d) Actual cost figures showing inability to continue operations without special relief

If failure to obtain a hardship gas well classification would result in premature abandonment, calculate the quantity of gas reserves which would be lost

Show the minimum sustainable producing rate of the subject well. This rate can be determined by:

- a) Minimum flow or "log off" test; and/or
- b) Documentation of well production history (producing rates and pressures, as well as gas/water ratio, both before and after shut-in periods due to the well dying, and other appropriate production data).

Attach a plat and/or map showing the proration unit dedicated to the well and the ownership of all offsetting acreage.

Submit any other appropriate data which will support the need for a hardship classification.

If the well is in a prorated pool, please show its current under- or over-produced status.

Attach a signed statement certifying that all information submitted with this application is true and correct to the best of your knowledge; that one copy of the application has been submitted to the appropriate Division district office (give the name) and that notice of the application has been given to the transporter/purchaser and all offset operators.

BEFORE EXAMINER STOGNER  
OIL CONSERVATION DIVISION

Westbrook EXHIBIT NO. 3

CASE NO. 8999

V. H. WESTBROOK

OIL OPERATOR

810 West Broadway

P. O. Box 2264

(505) 393-9714

HOBBS, NEW MEXICO 88240

August 6, 1986

Oil Conservation Division  
P. O. Box 1980  
Hobbs, New Mexico 88241

Attn: Mr. Jerry Sexton

Re: Kinahan Federal #1,  
Sec. 20, T-15-S, R-30-E  
Chaves County, NM

Dear Mr. Sexton,

Enclosed for your review and approval, please find our Application for Classification as a Hardship Gas Well on the above captioned well.

To support our request for the Hardship Classification we are enclosing graphs on oil, gas and water production indicating the detrimental effect on the well when shut in. The well was shut in several days each month with the exception of August, 1985. Each time the well was shut in, it became progressively weaker. After swabbing well in February, 1986, it became apparent that drilling mud and water was entering the well bore and blocking entry of gas and other fluids. Five hundred gallons of 15% HCL was dumped down tubing to try to dissolve mud block. It was assumed the acid would clear casing perforation. The well was then swabbed back the same day.

The well was then shut in March 18th until June 4th, 1986. The well died on June 6th and we started swabbing June 7th. The well gave up some condensate, water and drilling mud. The well became increasingly weaker. We moved swab unit back on well, swabbed well down and acidized with 1000 gallons of 10% gelled acid to dissolve drilling mud block. Started swabbing back immediately. Swabbed on well from June 11th thru June 16th. Unable to kick well off due to water and drilling mud entry. We then pulled tubing and packer and ran

BEFORE EXAMINER STOGNER OIL CONSERVATION DIVISION	
Westbrook	EXHIBIT NO. 4
CASE NO.	8999

21  
→ *hardship shut down*

back with tubing anchor and rod pump. Set American 456 pumping unit and electrified lease. Started pumping on July 1, 1986. We are currently moving approximately 340 MCF of gas daily, approximately 40 barrels of oil and approximately 100 barrels of water. We think if this well is shut in for any extended length of time, the water and mud will log off the formation and cause premature abandonment of the well.

We estimate, if the above circumstances occur, the amount of gas reserves lost due to premature abandonment would be 367 MMCF of gas and 44,000 barrels of condensate.

To prevent this waste and protect our correlative rights, we are requesting administrative approval to produce this well at its present rate of 350 MCF daily and given the circumstances and problems we have had with this, that our Application for Classification as a Hardship Gas Well be approved.

Also find for review the following supportive documents:

- 1.) Ownship map
- 2.) well bore sketch
- 3.) production history of well
- 4.) Form C-102
- 5.) copy of letter to offset operators
- 6.) certified statement
- 7.) cost of work-over and equipment to regain production

If further information is required, please contact me.

Sincerely yours,



V. H. Westbrook  
Operator

VHW/prw

Enclosures

V. H. WESTBROOK  
 KINAHAN FEDERAL #1  
 660 FSL - 1980 FEL UNIT 0  
Section 20, T-15-S, R-30-E

SUMMARY OF PRODUCTION

	<u>DAYS PRODUCED</u>	<u>GAS-MCF</u>	<u>OIL-BBLS.</u>	<u>WATER-BBLS.</u>
<u>1985</u>				
June	16	12,635	363.9	-0-
July	27	22,776	697.1	-0-
August	31	18,421	364.3	-0-
September	3	807	117.9	-0-
October	30	11,552	369.0	-0-
November	22	5,753	185.5	-0-
December	18	5,294	374.7	-0-

← BNP 2900 to 2100 in

<u>1986</u>				
January	17	4,418	189.8	-0-
February	23	5,389	187.6	-0-
March	16	3,275	-0-	-0-
April	--	-0-	-0-	-0-
May	--	-0-	-0-	-0-
June	4	655	30.0	253
July	28	6,518	802.0	3323

Calculated  
 required  
 SE



wants to eliminate the possibility of being SE again so that he may continue to produce this well

V. H. WESTBROOK  
KINAHAN FEDERAL #1  
660 FSL - 1980 FEL UNIT 0  
Section 20, T-15-S, R-30-E

WORKOVER COSTS FOR THE MONTHS OF JUNE & JULY, 1986

SURFACE EQUIPMENT

1 - 456 Amer. pumping unit	\$ 28,915.00
Serial # T36F120-4A-1965	
1 - 50 hp 1200 rpm motor	2,000.00
Serial #JH7743-30	
1 - Size 3 panel box	700.00
Flow line connections - LTV Energy	701.66
Flow line connections - Union Supply	451.61

DOWNHOLE EQUIPMENT

Tubing Anchor - V. L. Mahan	400.00
Sucker rods, Pony rods - Axelson	9,223.08
Pump and connections - LTV Energy	2,380.84

SERVICES PERFORMED

Electricity to lease-Central Valley Co-op	550.00
Hook up electricity - Dixie Electric	1,000.00
Acidize formation - Halliburton	1,669.14
Swab well - McCasland	715.44
Move & install pumping unit - Ruthco	2,036.50
Swab well - Ralph Johnson	4,902.25
Pull rods, change out pump - Mack Chase	660.45
Repaired stack pack - Stevenson Roach	696.45
Move rods to location - Forklift Ent.	817.97
Swab well - McCasland	2,275.43
Swab cups	247.65
I & W Transport - Haul water	3,868.78
Connect wellhead to stack pack - T J & C	471.42

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TOTAL EXPENSES TO DATE	\$ 64,683.67
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# V. H. WESTBROOK

OIL OPERATOR

810 West Broadway


P. O. Box 2264

(505) 393-9714

HOBBS, NEW MEXICO 88240

August 6, 1986

I, V. H. Westbrook, certify that all foregoing information submitted with the Application for Classification as Hardship Gas Well on the Kinahan Federal #1, Section 20, T-15-S, R-30-E, Chaves County, New Mexico is true and correct to the best of my knowledge and further attest that one copy of the Application has been submitted to the appropriate Division district office ( Oil Conservation Division, P. O. Box 1980, Hobbs, NM 88241) and that notice of this application has been given to the transporter/purchaser (Cabot Corporation, 7120 I-40 West, Amarillo, Texas 79106) and notice of this application has been given to all offset operators.

  
V. H. Westbrook, Operator

V. H. WESTBROOK

OIL OPERATOR

810 West Broadway

P. O. Box 2264

(505) 393-9714

HOBBS, NEW MEXICO 88240

August 6, 1986

McClellan Oil Corporation  
P. O. Box 730  
Roswell, New Mexico 88201

Re: Kinahan Federal #1  
Sec. 20, T-15-S, R-30-E  
Chaves County, N. M.

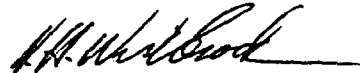
Gentlemen:

As an offset operator, please be informed that we are applying for a Hardship Gas Well Classification on the above referenced well.

Enclosed for your review and records, please find one copy each of the Application for Classification as a Hardship Gas Well and a map showing the ownership of all offsetting acreage.

If you have any questions concerning this application, please direct them to the Oil Conservation Division of New Mexico in Santa Fe, New Mexico.

Sincerely,



V. H. Westbrook  
Operator

VHW/prw  
Enclosures

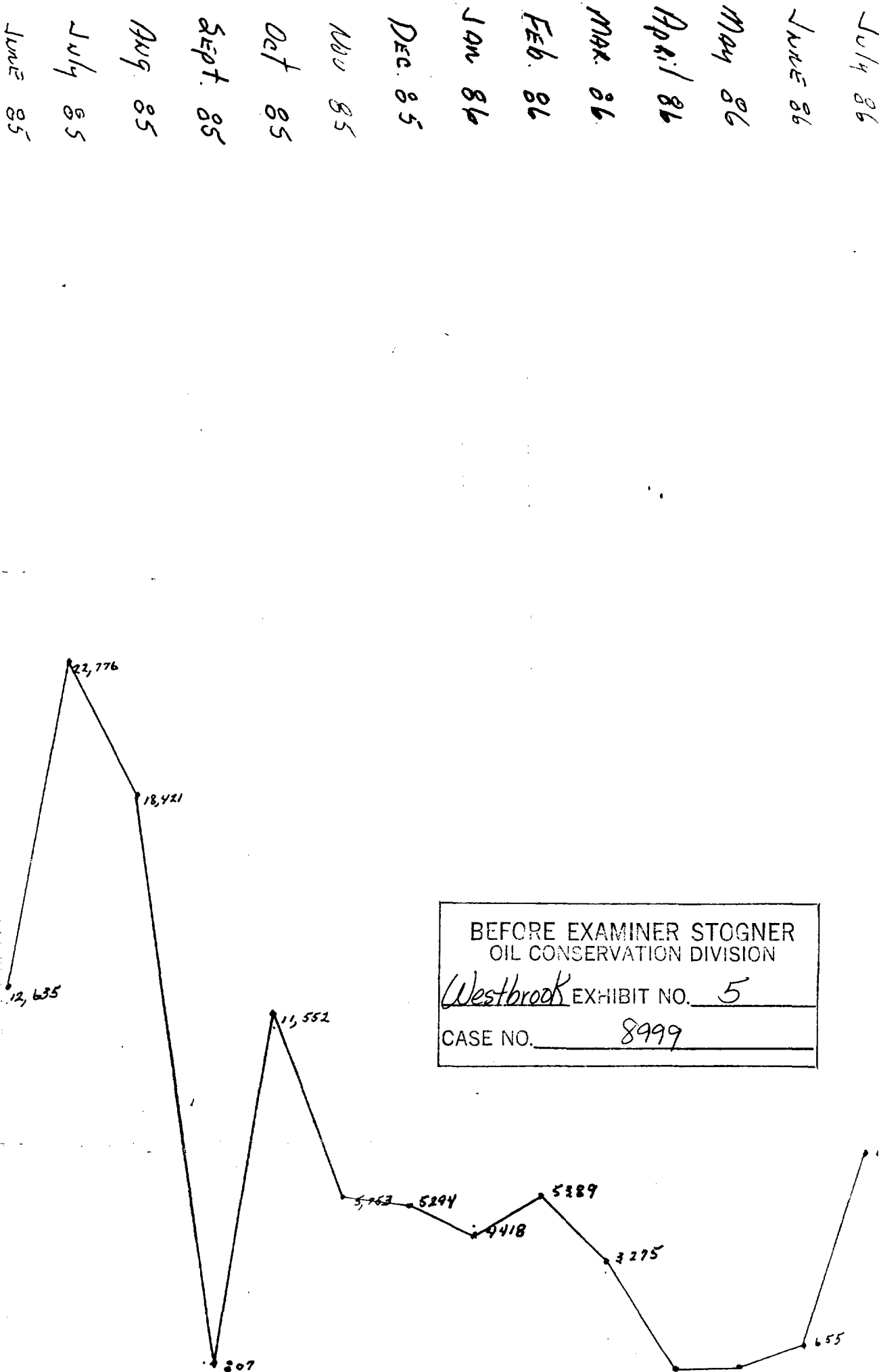
cc: Dalport Oil Company  
3471 Inter First One  
Dallas, Texas 75202

Texaco, Inc.  
P. O. Box 728  
Hobbs, New Mexico 88241

KINAHAN

Gas

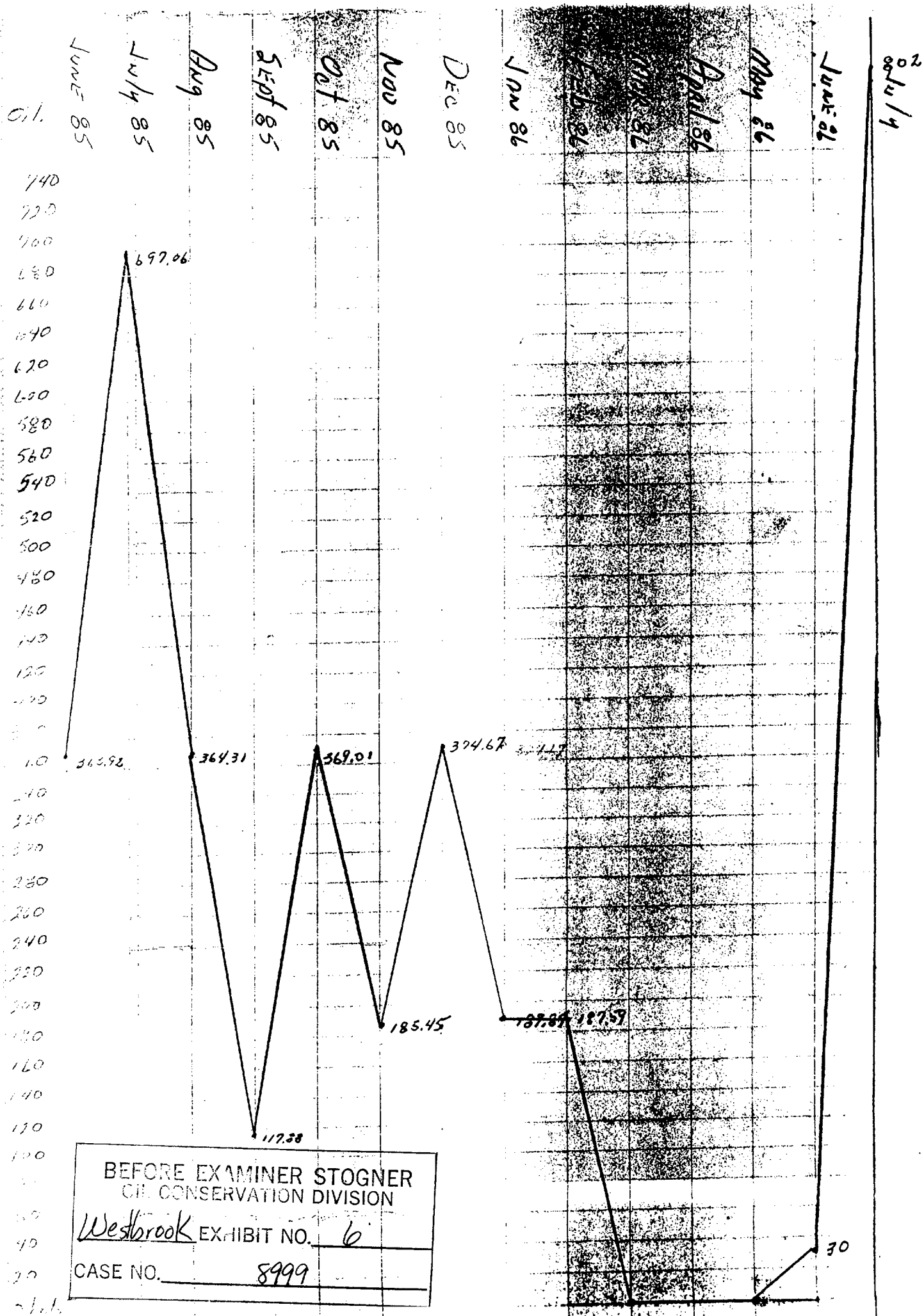
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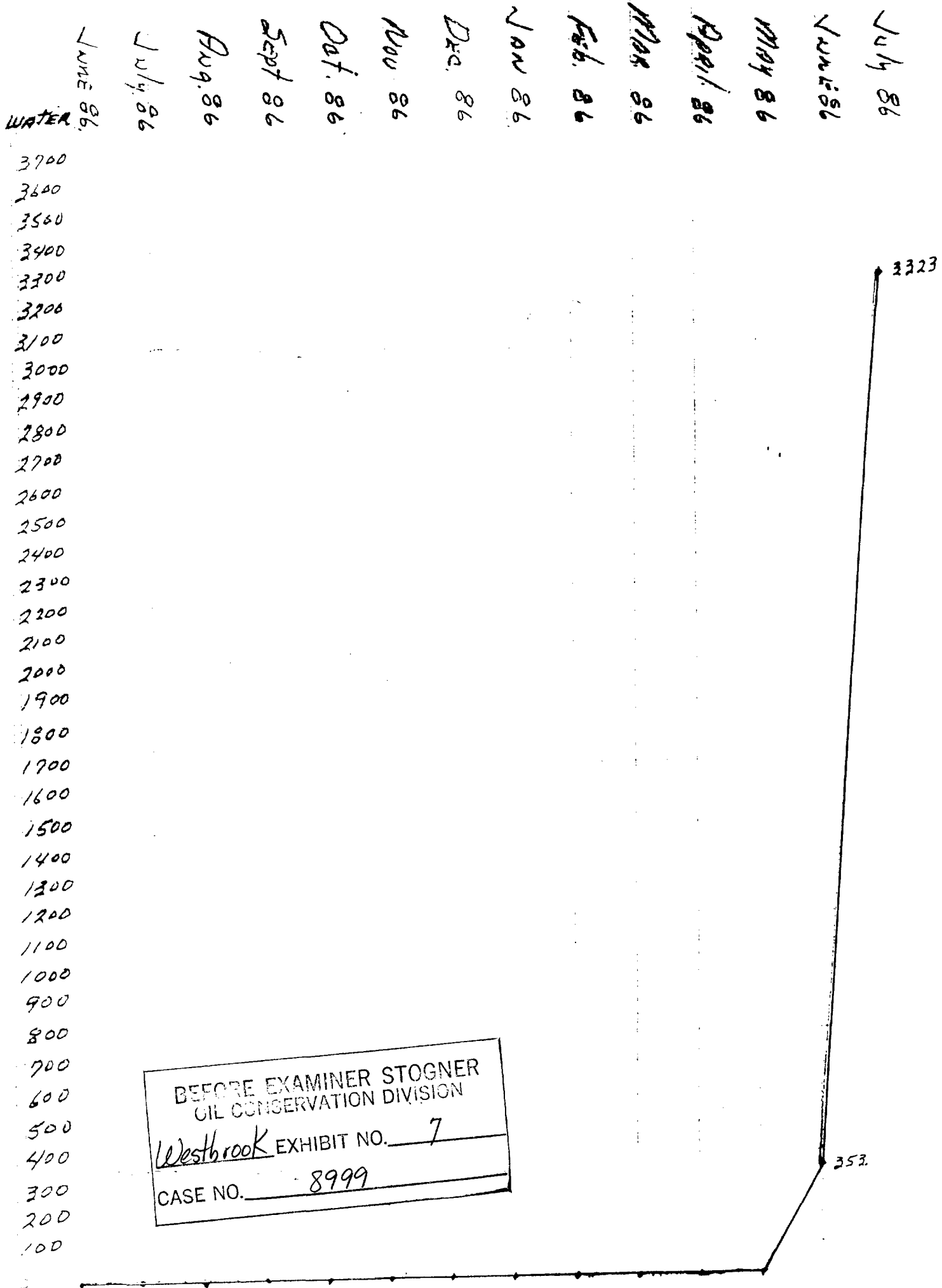


BEFORE EXAMINER STOGNER  
OIL CONSERVATION DIVISION

Westbrook EXHIBIT NO. 5

CASE NO. 8999





BEFORE EXAMINER STOGNER  
OIL CONSERVATION DIVISION  
Westbrook EXHIBIT NO. 7  
CASE NO. 8999

Kinabaw  
Producing  
DAYS.

JUNE 85

JULY 85

AUG 85

SEPT 85

OCT 85

NOV 85

DEC 85

JAN 86

FEB 86

MAR 86

APR 86

MAY 86

JUNE 86

JULY 86

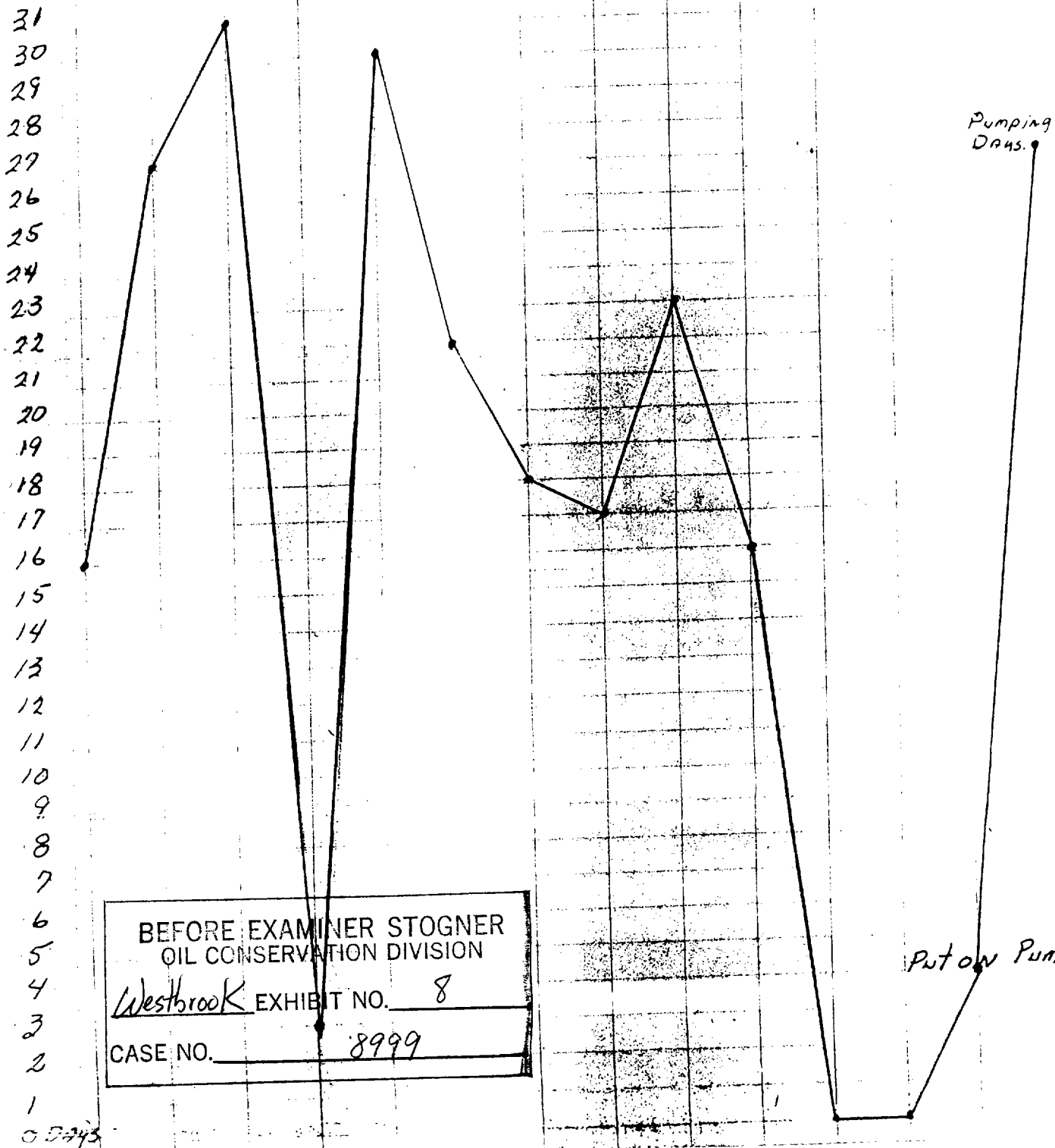
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1

0 Days

BEFORE EXAMINER STOGNER	
OIL CONSERVATION DIVISION	
Westbrook	EXHIBIT NO. 8
CASE NO.	8999

Pumping  
DAYS.

Put on Pump







# BENNETT-CATHEY WIRE LINE SERVICE

P. O. BOX 787

ARTESIA, NEW MEXICO 88210

Phone (505) 746-3281



## BOTTOM HOLE PRESSURE SURVEY REPORT

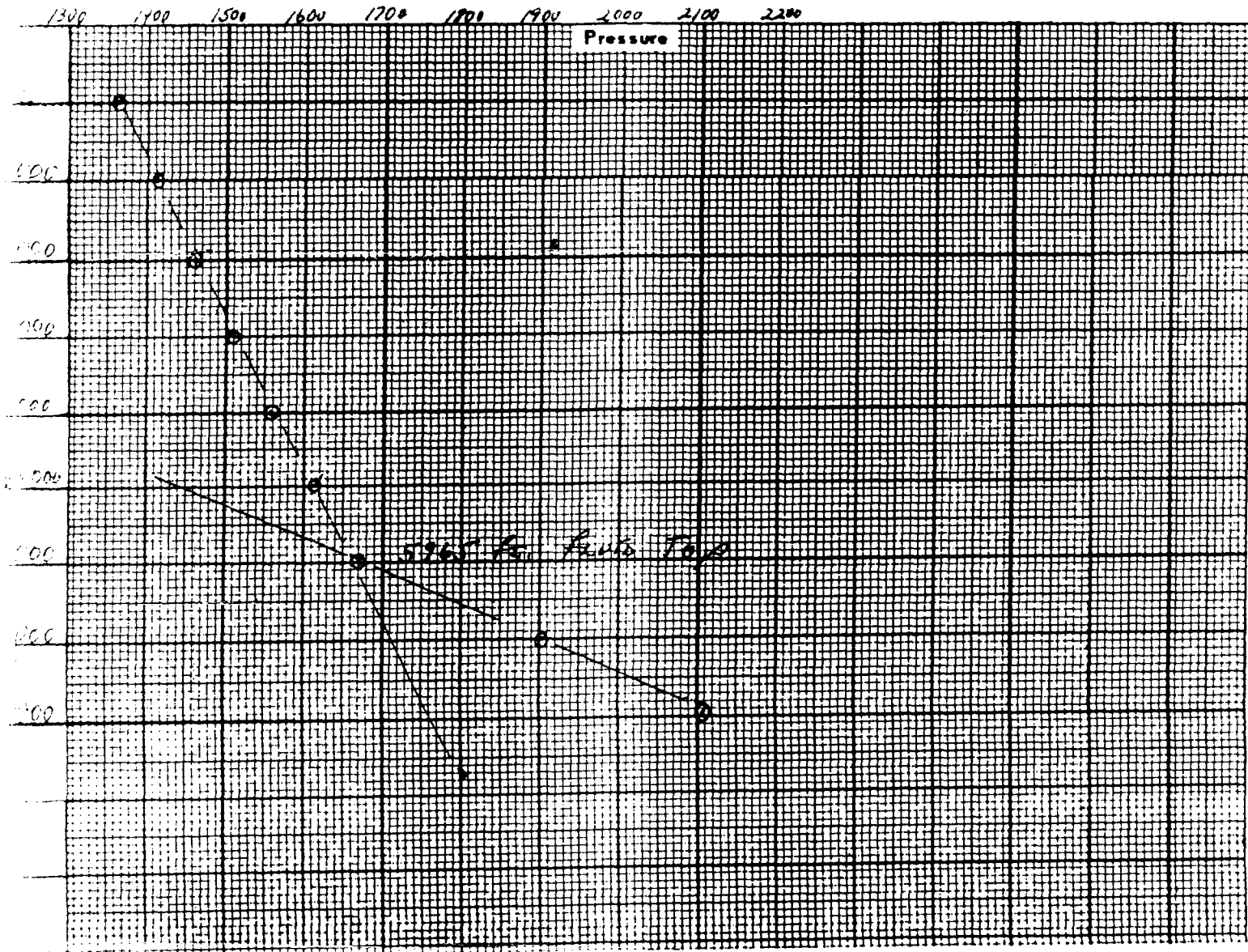
OPERATOR V.H. WESTBROOK  
LEASE KINEHAN FEDERAL  
WELL NO. 1'  
POOL FORMATION STRAWN  
DATE 9-13-85 TIME 1822 HOURS  
CO. MAN BUDDY WESTBROOK  
STATUS SHUT IN TEST DEPTH 7960'  
TIME S.I. 0800 HRS LAST TEST DATE 4-6-85  
9-3-85 BHP LAST TEST 2922  
TUB. PRES. 1364.2 BHP CHANGE - 814  
CAS. PRES. FLUID TOP 5965  
DATUM PLANE WATER TOP  
DATUM PSIA 2108.2 RUN BY PETE HERNANDEZ  
TEMP 126° CLOCK # A-6385  
PRESSURE RANGE 8000#  
ELEMENT NO. RPG3#21034A

DEPTH	PSIA PRESSURE	LBS/100 FT GRADIENT
0	1364.2	
1000	1412.2	4.8
2000	1461.2	4.9
3000	1510.2	4.9
4000	1559.2	4.9
5000	1617.2	5.8
6000	1672.2	4.5
7000	1904.2	23.2
7960	2108.2	21.3

TIME B.H.P. MEASURED 1822 HOURS

LENGTH OF TIME WELL SHUT IN  
250 HOURS 22 MINUTES

PERFORATIONS FROM 8040 TO 8050



BEFORE EXAMINER STOGNER  
OIL CONSERVATION DIVISION

Westbrook EXHIBIT NO. 9

CASE NO. 8999



# BENNETT-CATHEY WIRE LINE SERVICE

P O BOX 787  
ARTESIA, NEW MEXICO 88210  
Phone (505) 746-3281

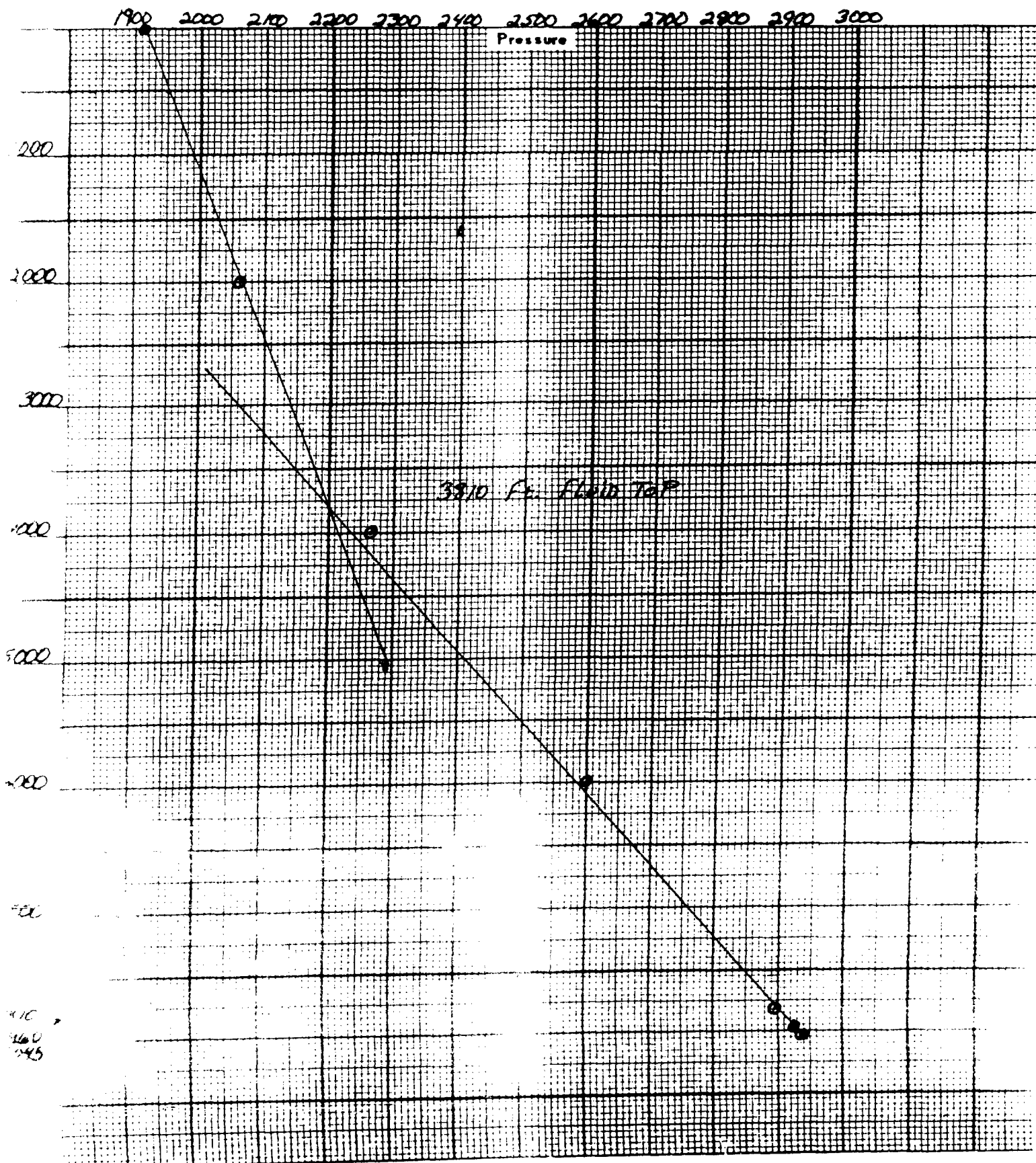


## BOTTOM HOLE PRESSURE SURVEY REPORT

OPERATOR VH WESTBROOK  
LEASE KINAHAN FED.  
WELL NO. #1  
POOL                      FORMATION STRAWN  
DATE 4/9/85 TIME 1526 HOUR  
CO. MAN MIKE WESTBROOK  
STATUS SHUT IN TEST DEPTH 7960  
TIME S.I. 4/6/85 LAST TEST DATE 1ST TEST  
1515 HOUR BHP LAST TEST                       
TUB. PRES. 1912.2 BHP CHANGE                       
CAS. PRES.                      FLUID TOP 3810 FEET.  
DATUM PLANE                      WATER TOP                       
DATUM PSIA 2937.2 RUN BY KELLY WILLIAMS  
TEMP 148° CLOCK # 82684  
PRESSURE RANGE 7600 LBS.  
ELEMENT NO. RPG3#18753

DEPTH	PSIA	GRADIENT
0	1912.2	
2000	2062.2	7.5
4000	2264.2	10.1
6000	2600.2	16.8
7810	2894.2	16.2
7960	2922.2	18.6
8045	2937.2	18.6

8045 FEET WAS EXTRAPOLATED  
TIME B.H.P. MEASURED 1526 HOUR  
LENGTH OF TIME WELL SHUT IN 72 HOURS 11 M  
PERFORATIONS FROM 8040 TO 8050



BEFORE EXAMINER STOGNER  
OIL CONSERVATION DIVISION

Westbrook EXHIBIT NO. 10

CASE NO. 8999

# OIL CONSERVATION DIVISION

STATE OF NEW MEXICO  
ENERGY AND MINERALS DEPARTMENT

P. O. BOX 2084  
SANTA FE, NEW MEXICO 87501

Form C-102  
Revised 10

All distances must be from the outer boundaries of the Section.

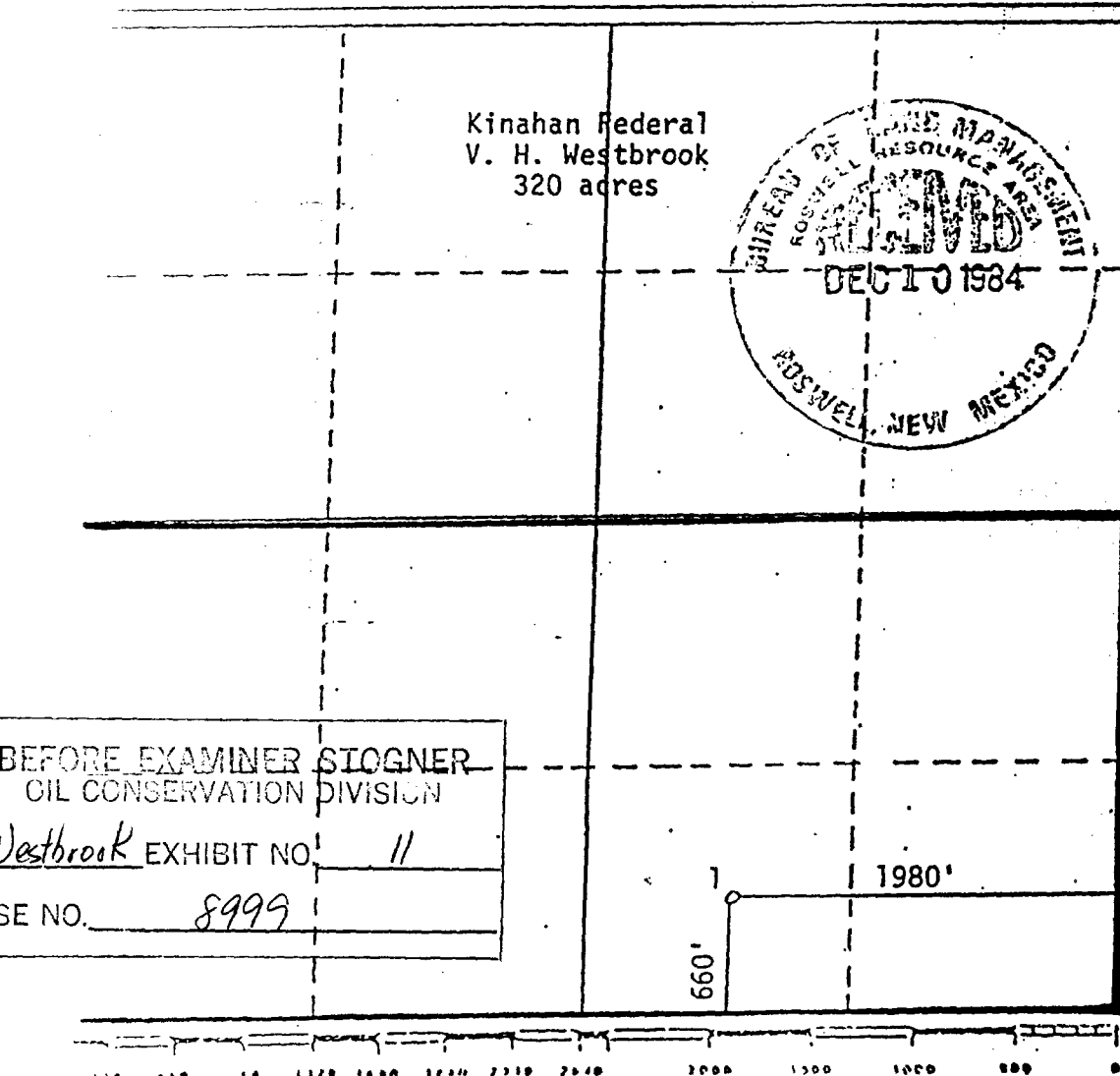
Owner <b>V. H. Westbrook</b>		Lease <b>Kinahan Federal</b>		Well No. <b>1</b>	
Section <b>0</b>	Section <b>20</b>	Township <b>15 South</b>	Range <b>30 East</b>	County <b>Chaves</b>	
Postage Location of Wells: <b>660</b> feet from the <b>South</b> line and <b>1980</b> feet from the <b>East</b> line Section					
and Level Elev. <b>3978</b>	Producing Formation <b>Wolfcamp</b>		Pool <b>Undesignated</b>		Dedicated Acreage: <b>320</b>

1. Outline the acreage dedicated to the subject well by colored pencil or hachure marks on the plat below.
2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to work interest and royalty).
3. If more than one lease of different ownership is dedicated to the well, have the interests of all owners been consolidated by communitization, unitization, force-pooling, etc?

☐ Yes ☐ No If answer is "yes," type of consolidation N/A

If answer is "no," list the owners and tract descriptions which have actually been consolidated. (Use reverse side of this form if necessary.)

No allowable will be assigned to the well until all interests have been consolidated (by communitization, unitization, forced-pooling, or otherwise) or until a non-standard unit, eliminating such interests, has been approved by the Division.



BEFORE EXAMINER STOGNER  
OIL CONSERVATION DIVISION  
*Westbrook* EXHIBIT NO. 11  
CASE NO. 8999

## CERTIFICATION

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

*Mike Westbrook*

Name  
**Manager**  
Position  
**V. H. Westbrook**  
Company  
**12/7/84**  
Date

I hereby certify that the well location shown on this plat was plotted from the notes of actual surveys made by me under my supervision, and that the same is true and correct to the best of my knowledge and belief.

**5/13/60**

Date Surveyed  
**J. J. Velten**  
Registered Professional Engineer and/or Land Surveyor

**8174**

Certificate No.

V. H. WESTBROOK

OIL OPERATOR

810 West Broadway

P. O. Box 2264

(505) 393-9714

HOBBS, NEW MEXICO 88240

August 7, 1986

Cabot Corporation  
7120 I-40 West  
Amarillo, Texas 79106

Re: Kinahan Federal #1  
Sec. 20, T-15-S, R-30-E  
Chaves County, NM

Gentlemen:

As transporter/purchaser of gas from the above lease,  
please be informed that we are applying for a Hardship Gas  
Well Classification.

Enclosed for your review and records is one copy of the  
Application and ownership map.

If you have any questions concerning this application,  
please direct them to the Oil Conservation Division of  
New Mexico in Santa Fe, New Mexico.

Sincerely,



V. H. Westbrook  
Operator

VHW/prw

BEFORE EXAMINER STOGNER OIL CONSERVATION DIVISION	
<u>Westbrook</u>	EXHIBIT NO. <u>12</u>
CASE NO. <u>8999</u>	





1-CAUSE Oil Dump STUCK open KINAHAN Daily Report  
 BUT OKAY NOW -

505-

748-126

	MCF	Oil	WATER
10-2-86	195	31.81	60
10-3-86	322	34.13	48
10-4-86	315	24.46	51
10-5-86	322	37.58	51
FLUID LEVEL 4540.3'			
10-6-86	342	37.81	48
10-7-86	330	34.13	51
10-8-86	318	31.87	51
10-9-86	324	29.58	66
10-10-86	334	31.85	48
10-11-86	337	5.31	45
10-12-86	326	68.48	37
FLUID LEVEL 5160'			
10-13-86	400	25.03	43
10-14-86	304	37.05	60
10-15-86	322	36.40	42
FLUID LEVEL 4913'			
10-16-86	332	34.12	48
10-17-86	212	5.69	6

21 1/2 Hrs down - Vol 15902' -  
 fluid level 3044' - Start well  
 pumping @ 7:20 AM, fluid level  
 @ 8:42 AM, 1 hr 22 min to pump

10-18-86	300	34.14	39
10-19-86	265	25.03	21
FLUID LEVEL 3028'			
10-20-86	261	30.96	33
10-21-86	263	29.78	44
10-22-86	272	32.02	39
10-23-86 NOT STUCK	253	28.01	32
10-24-86 (PUMP)	214	24.55	39

# KINAHAN Daily Report

10-1-86

MCF

OIL

1071

10-25-86 (13 1/2 hrs)	212	13.65	20
10-26-86 <sup>water pump stuck</sup>	243	27.31	30
10-27-86 <sup>fluid level</sup> 4480'	265	-0-	42
10-28-86	224	40.51 - 796.03	42 (1,142)
10-29-86	246	34.99	39
10-30-86 <sup>fluid level</sup> 4558'	250	25.02	42
10-31-86 <sup>fluid level</sup> 4418'	(171)	14.52 (870.26)	50 (1074)

PICKED UP - 5 TANKS OIL FOR MONTH

11-1-86	245	29.27	39
11-2-86	234	25.03	36
11-3-86 <sup>(changing pump)</sup>	242	26.74	36
11-4-86 (14 1/2 hrs)	209	20.64	25

(this would have to be checked if the well was artificially cut back)

BEFORE EXAMINER STOGNER  
OIL CONSERVATION DIVISION  
Westbrook EXHIBIT NO. 14  
CASE NO. 8999