

4476



COMMERCIAL RESOURCES
(505)-827-5724

SURFACE RESOURCES
(505)-827-5793

MINERAL RESOURCES
(505)-827-5744

ROYALTY
(505)-827-5772

**State of New Mexico
Commissioner of Public Lands**

Ray Powell, M.S., D.V.M.
310 Old Santa Fe Trail, P. O. Box 1148
Santa Fe, New Mexico 87504-1148
Phone (505)-827-5760, Fax (505)-827-5766

PUBLIC AFFAIRS
(505)-827-5765

ADMINISTRATIVE MGMT.
(505)-827-5700

LEGAL
(505)-827-5713

PLANNING
(505)-827-5752

February 19, 1997

Hallwood Energy Companies
P.O. Box 37811
Denver, Colorado 80237

Attn: Ms. Nonya K. Durham

Re: 1997 Plan of Development
Catclaw Draw Unit
Eddy County, New Mexico

Dear Ms. Durham:

The Commissioner of Public Lands has, of this date, approved the above-captioned Plan of Development. Our approval is subject to like approval by all other appropriate agencies.

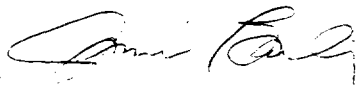
The possibility of drainage by wells outside of the unit area and the need for further development of the unit may exist. You may be contacted at a later date regarding these possibilities.

If you have any questions or if we may be of further help, please contact Pete Martinez at (505) 827-5791.

Very truly yours,

RAY POWELL, M.S., D.V.M.
COMMISSIONER OF PUBLIC LANDS

BY:


JAMI BAILEY, Director
Oil, Gas and Minerals Division
(505) 827-5744

RP/JB/cpm
cc: Reader File

OCD

BLM



JIM BACA
COMMISSIONER

#21476

State of New Mexico
OFFICE OF THE
Commissioner of Public Lands
Santa Fe

P.O. BOX 1148
SANTA FE, NEW MEXICO 87504-1148

February 20, 1992

Hallwood Energy Company
P. O. Box 378111
Denver, Colorado 80237

Attn: Ms. Robin Benko

Re: Catclaw Draw Unit
Operator Name Change
Eddy County, New Mexico

Dear Ms. Benko:

This office is in receipt of your letter of February 4, 1992, together with a copy of the Certificate of Amendment of Certificate of Incorporation whereby the name of Quinoco Petroleum, Inc. was changed to Hallwood Petroleum, Inc.

The above mentioned documents are hereby accepted and our records have been noted to reflect this change.

If you have any questions, or if we may be of further help, please contact Pete Martinez at (505) 827-5791.

Very truly yours,

JIM BACA
COMMISSIONER OF PUBLIC LANDS

BY: *Floyd O. Prando*
FLOYD O. PRANDO, Director
Oil/Gas and Minerals Division
(505) 827-5744
JB/FOP/pm
encls.

cc: Reader File

OCD



JIM BACA
COMMISSIONER

State of New Mexico
OFFICE OF THE
Commissioner of Public Lands
Santa Fe

P.O. BOX 1148
SANTA FE, NEW MEXICO 87504-1148

SLO REF NO. OG-1172

September 24, 1992

Hallwood Energy Companies
P.O. Box 378111 - Suite 1700
Denver, Colorado 80237

Attn: Steve Bausch

Re: 1992 Plan of Development
Catclaw Draw Unit
Eddy County, New Mexico

Gentlemen:


The Commissioner of Public Lands has this date approved the above captioned Plan of Development. Our approval is subject to like approval by all other appropriate agencies.

The possibility of drainage by wells outside of the Unit Area and the need for further development of the unit may exist. You will be contacted at a later date regarding these possibilities.

If you have any questions, or if we may be of further help, please contact Pete Martinez at (505) 827-5791.

Very truly yours,

JIM BACA
COMMISSIONER OF PUBLIC LANDS

BY: 
FLOYD O. PRANDO, Director
Oil and Gas Division
(505) 827-5744

JB/FOP/pm
cc: OCD
BLM



4476

State of New Mexico
Commissioner of Public Lands

RAY POWELL, M.S., D.V.M.
COMMISSIONER

310 OLD SANTA FE TRAIL P.O. BOX 1148
SANTA FE, NEW MEXICO 87504-1148

(505) 827-5760
FAX (505) 827-5766

SLO REF NO. OG-1379

March 21, 1994

Hallwood Energy Companies
P.O. Box 378111
Suite 1700
4582 South Ulster Street Parkway
Stanford Place III
Denver, Colorado 80237

Attn: Mr. Kevin E. O'Connell

Re: 1994 Plan of Development
Catclaw Draw Unit
Eddy County, New Mexico

Gentlemen:

The Commissioner of Public Lands has this date approved the above captioned Plan of Development. Our approval is subject to like approval by all other appropriate agencies.

The possibility of drainage by wells outside of the Unit Area and the need for further development of the unit may exist. You will be contacted at a later date regarding these possibilities.

If you have any questions, or if we may be of further help, please contact Pete Martinez at (505) 827-5791.

Very truly yours,

RAY B. POWELL, M.S., D.V.M.
COMMISSIONER OF PUBLIC LANDS

BY: *Floyd O. Prando*
FLOYD O. PRANDO, Director
Oil and Gas Division
(505) 827-5744

RBP/FOP/pm
cc: OCD-Roy Johnson
BLM

Hallwood Energy Companies

4582 South Ulster Street Parkway • Stanford Place III • Suite 1700 • Post Office Box 378111
Denver, Colorado 80237 • (303) 850-7373

NMOC

File

CERTIFIED MAIL

OIL CONSERVATION DIVISION
RECEIVED

February 12, 1993 '93 MAR 5 AM 9 17



Bureau of Land Management
Roswell District Office
Attn: Armando A. Lopez
P.O. Box 1397
Roswell, NM 88202-1397

RE: 1992 & 1993 Plan of Development/Operations
Catclaw Draw Unit
Eddy County, New Mexico

Dear Mr. Lopez:

During the years 1991 and 1992, no development drilling occurred in the above-referenced unit. Hallwood recompleted and worked over several wells in the Catclaw Unit as discussed more in detail in the attachments.

Please find attached the following items:

- Attachment #1 - 1992 Plan of Development/Operations
- Attachment #2 - 1993 Plan of Development/Operations
- Attachment #3 - Production Curves for the Individual Wells
- Attachment #4 - A Field Map Indicating Well Locations
- Attachment #5 - Current Copies of Exhibits A and B to the Unit Agreement and a Current Map of Existing Participating Areas
- Attachment #6 - A Copy of the December 1991 and December 1992 MMS Production Report Indicating the Wells' Status at that Time

If there are any changes to our plan of development, a supplemental plan will be submitted for your approval. Should you require further information in this regard please contact me at (303) 850-6303.

Sincerely,

HALLWOOD PETROLEUM, INC.

A handwritten signature in cursive script that reads "Kevin E. O'Connell".

Kevin E. O'Connell
Drilling & Production Supervisor
Western District

cc: Eva Kardas
Well (Field) File

Plan of Development
APPROVED

FEB 25, 1993

A handwritten signature in cursive script that reads "Armando A. Lopez".
DISTRICT MANAGER
BUREAU OF LAND MANAGEMENT

STATE ASSIGNMENT CONTROL SI
FEE CRA
DPH

DATE RECEIVED: 02-22-93

CONTROL NUMBER: 02/29



JIM BACA
COMMISSIONER

State of New Mexico
OFFICE OF THE
Commissioner of Public Lands
Santa Fe

P.O. BOX 1148
SANTA FE, NEW MEXICO 87504-1148

SLO REF NO. OG-1290

April 15, 1993

Hallwood Energy Companies
P.O. Box 37811
4582 South Ulster State Parkway
Stanford Place III
Suite 1700
Denver, Colorado 80237

Attn: Mr. Kevin E. O'Connell

Re: 1993 Plan of Development
Catclaw Draw Unit
Eddy County, New Mexico

Gentlemen:

The Commissioner of Public Lands has this date approved the above captioned Plan of Development. Our approval is subject to like approval by all other appropriate agencies.

The possibility of drainage by wells outside of the Unit Area and the need for further development of the unit may exist. You will be contacted at a later date regarding these possibilities.

If you have any questions, or if we may be of further help, please contact Pete Martinez at (505) 827-5791.

Very truly yours,

JIM BACA
COMMISSIONER OF PUBLIC LANDS

BY: *Floyd O. Prando*
FLOYD O. PRANDO, Director
Oil and Gas Division
(505) 827-5744

JB/FOP/pm
cc: OCD
BLM



Angeles

QUINOCO PETROLEUM, INC.

Stanford Place 3 4582 S. Ulster St. Parkway, Suite 1700 Post Office Box 378111 Denver, Colorado 80237
(303) 850-7373

April 19, 1989

RECEIVED

Bureau of Land Management
Roswell District Office
P.O. Box 1397
Roswell, New Mexico 88201-1397

APR 24 1989

OIL CONSERVATION DIV.
SANTA FE

Attention: Francis R. Cherry, Jr.

4476

RE: 1989 Plan of Development
Catclaw Draw Unit
Eddy County, New Mexico

Dear Mr. Cherry:

The Catclaw Draw Unit (CDU) was severely curtailed during the majority of 1988. With the settlement of the litigation with the gas purchaser, the wells have been returned to production. Per BLM approval, an alternate pipeline was laid for the CDU #1-Y, 2, 4, 5, 6, 9, 12, 13, 14 and 15 wells. Regular maintenance will be performed throughout the year. Pending a review, additional Morrow intervals may be opened in the 3rd or 4th quarter. Attached are the following:

1. Production data for the past year showing current production and status,
2. Copies of production curves for the individual wells, and
3. A map of the field showing the well locations.

The Catclaw Draw Unit's #6, 7, 16 and 17 have been producing regularly as the wells sell gas to another purchaser.

No development drilling occurred in 1988. We are not planning on drilling any wells during 1989. A supplemental plan of development will be submitted for your approval if any changes occur in operations.

Quinoco Petroleum purchased the Catclaw Draw Unit from Emcor Petroleum in October, 1985.

Sincerely,

QUINOCO PETROLEUM, INC.

Ron Finch

Ron Finch
Sr. Petroleum Engineer,
Western District

HSR/RWF/lb
enclosures

cc: New Mexico Oil & Gas Conservation Commission
Working Interest Owners

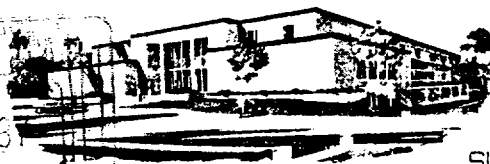
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State of New Mexico

4476



SEP 11 1987



SLO REF. NO. OG-439

W.R. HUMPHRIES
COMMISSIONER

SANTA FE

Commissioner of Public Lands

September 9, 1987

P.O. BOX 1148
SANTA FE, NEW MEXICO 87504-1148

Quinoco Petroleum Inc.
Attention: Mary Earle
Stanford Place 3
4582 S. Ulster St. Parkway, Suite 1700
P. O. Box 378111
Denver, Colorado 80237

Re: Catclaw Draw Unit
1987 Plan of Development
Eddy County, New Mexico

Gentlemen:

The Commissioner of Public Lands has this date approved the above captioned Plan of Development. Our approval is subject to like approval by all appropriate agencies.

If we may be of further help, please do not hesitate to call on us.

Very truly yours,

W. R. HUMPHRIES
COMMISSIONER OF PUBLIC LANDS

BY:

FLOYD O. PRANDO, Director
Oil & Gas Division
(505) 827-5744

WRH/FOP/ams
enclosure
cc: Bureau of Land Management
Oil Conservation Division



Angeles

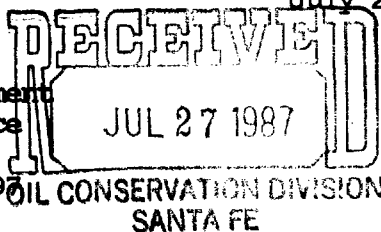
QUINOCO PETROLEUM, INC.

Stanford Place 3 4582 S. Ulster St. Parkway, Suite 1700 Post Office Box 378111 Denver, Colorado 80237
(303) 850-7373

July 21, 1987

#4476

Bureau of Land Management
Roswell District Office
P.O. Box 1397
Roswell, NM 88201-1397



Attn: Francis R. Cherry, Jr.

Re: 1987 Plan of Development
Catclaw Draw Unit
Eddy County, NM

Dear Mr. Cherry:

The Catclaw Draw Unit was severely curtailed during the majority of 1986. Our plans are to return the wells to production. Regular maintenance will be performed throughout the year.

Also attached are the following:

- 1) Summary of production data for the past year,
- 2) Copies of production curves for the individual wells,
- 3) A copy of the December 1986 production report showing current production and status, and
- 4) A map of the field showing well locations.

The Catclaw Draw Unit's #6, 7, 16 and 17 have been producing regularly as the wells sell gas to another purchaser.

No development drilling occurred in 1986. We are not planning on drilling any wells during 1987. A supplemental plan of development will be submitted for your approval if any changes occur in operations.

Quinoco Petroleum purchased the Catclaw Draw Unit from Emcor Petroleum in October, 1985.

Sincerely,

QUINOCO PETROLEUM, INC.

Mary Earle

Mary Earle
Production Analyst

ME/hr

Enclosure

cc: New Mexico Oil & Gas Conservation Commission
Working Interest Owners

CATCLAW DRAW UNIT
PRODUCTION SUMMARY

January, 1986 through December, 1986

<u>Month</u>	<u>Bbls Oil</u>	<u>Bbls Water</u>	<u>MCF Gas</u>
1/86	0	0	34,716
2/86	0	0	0
3/86	0	0	0
4/86	0	0	309
5/86	0	0	0
6/86	0	0	5,948
7/86	0	0	5,075
8/86	0	0	0
9/86	158	0	3,902
10/86	54	0	637
11/86	0	0	9,151
12/86	<u>0</u>	<u>0</u>	<u>25,109</u>
TOTAL	212	0	84,847

Cumulative Production through December 1986:

Oil: 53,240 Bbls
Water: 9,255 Bbls
Gas: 50,515,503 MCF

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

Form 3160-6
(November 1983)
(Formerly 9-329)

MONTHLY REPORT
OF
OPERATIONS

Lease No. N/A
Communitization Agreement No. 91011588
Field Name Catclaw Draw Morrow
Unit Name Catclaw Draw
Participating Area _____
County Eddy State New Mexico
Operator QUINOCO PETROLEUM, INC.
☐ Amended Report

The following is a correct report of operations and production (including status of all unplugged wells) for the month of December, 19 86

(See Reverse of Form for Instructions)

This report is required by law (30 U.S.C. 189, 30 U.S.C. 359, 25 U.S.C. 396d), regulation (43 CFR 3162.4-3), and the terms of the lease. Failure to report can result in the assessment of liquidated damages, (43 CFR 3160), penalties, shutting down operations, or basis for recommendation to cancel the lease and forfeit the bond (43 CFR 3160).

Well No.	Sec. & 1/4 of 1/4	TWP	RNG	Well Status	Days Prod.	*Barrels of Oil	*MCF of Gas	*Barrels of Water	Remarks
1-Y	26SENE	21S	25E	GSI	0	0	0	0	
02	23SWNE	21S	25E	PGW	3	0	1,439	0	
04	24SWNE	21S	25E	PGW	3	0	342	0	
05	25SWNE	21S	25E	PGW	3	0	741	0	
06	13NWSE	21S	25E	PGW	30	0	4,376	0	
07	14NWSE	21S	25E	GSI	0	0	0	0	
09	35SENE	21S	25E	PGW	3	0	2,904	0	
11	36NWSW	21S	25E	TA	0	0	0	0	
12	24SESW	21S	25E	GSI	0	0	0	0	
13	26SWSE	21S	25E	PGW	3	0	5,182	0	
14	23SWSE	21S	25E	PGW	3	0	3,194	0	
15	25NWSW	21S	25E	GSI	0	0	0	0	
16	13SWNW	21S	25E	PGW	30	0	3,972	0	
17	14NWNE	21S	25E	PGW	30	0	2,959	0	

*If none, so state.

DISPOSITION OF PRODUCTION (Lease, Participating Area, or Communitized Area basis)

	Oil & Condensate (BBLS)	Gas (MCF)	Water (BBLS)
*On hand, Start of Month	<u>474</u>	<u>XXXXXXXXXXXXXXXXXX</u>	<u>XXXXXXXXXXXXXXXXXX</u>
*Produced	<u>0</u>	<u>25,109</u>	<u>0</u>
*Sold	<u>147</u>	<u>24,833</u>	<u>XXXXXXXXXXXXXXXXXX</u>
*Spilled or Lost	<u>0</u>	<u>XXXXXXXXXXXXXXXXXX</u>	<u>XXXXXXXXXXXXXXXXXX</u>
*Flared or Vented	<u>XXXXXXXXXXXXXXXXXX</u>	<u>0</u>	<u>XXXXXXXXXXXXXXXXXX</u>
*Used on Lease	<u>0</u>	<u>276</u>	<u>XXXXXXXXXXXXXXXXXX</u>
*Injected	<u>0</u>	<u>0</u>	<u>0</u>
*Surface Pits	<u>XXXXXXXXXXXXXXXXXX</u>	<u>XXXXXXXXXXXXXXXXXX</u>	<u>0</u>
*Other (Identify)	<u>0</u>	<u>0</u>	<u>0</u>
*On hand, End of Month	<u>327</u>	<u>XXXXXXXXXXXXXXXXXX</u>	<u>XXXXXXXXXXXXXXXXXX</u>
*API Gravity/BTU Content	<u>--</u>	<u>1,042</u>	<u>XXXXXXXXXXXXXXXXXX</u>

Authorized Signature: _____ Address: P. O. Box 378111, Denver, CO 80237
Title: Production Analyst Page 1 of 5

15

Hanagan
1 St Com
TD 11,307

17 14

GLM, et al
7 Catclaw Dr

Tenneco
16 St FP

GLM et al
15 Catclaw Dr St

22

T
21
N

Exxon
(Hanagan)
8 Catclaw Dr
TD 10,781

Exxon
1 Catclaw

23

✓ Hanagan
2 Catclaw Dr
TD 10,500

Tenneco
14 Catclaw Dr

24

GLM, et al
4 Catclaw Dr
TD 10,770

CATCLAW

Tenneco
12 Catclaw Dr

27

Shugart
1 A Superior
TD 1169
5 4 45

GLM, et al
1 Y Catclaw Dr
TD 10,905

Tenneco
(GLM)
13 Catclaw Dr

U.S.C.G.S.
DENNY

26

GLM, et al
5 Catclaw Dr
TD 11,000

Tenneco
(Allied Chem)
15 Catclaw Dr

25

Hanagan
10 Catclaw Dr
TD 10,900

34

Hanagan
1 Round Tank Mtn
TD 10,900

GLM, et al
9 Catclaw Dr

Catclaw Draw Field
Quinoco Petroleum, Inc.

35

GLM, et al
3 Catclaw Dr

36

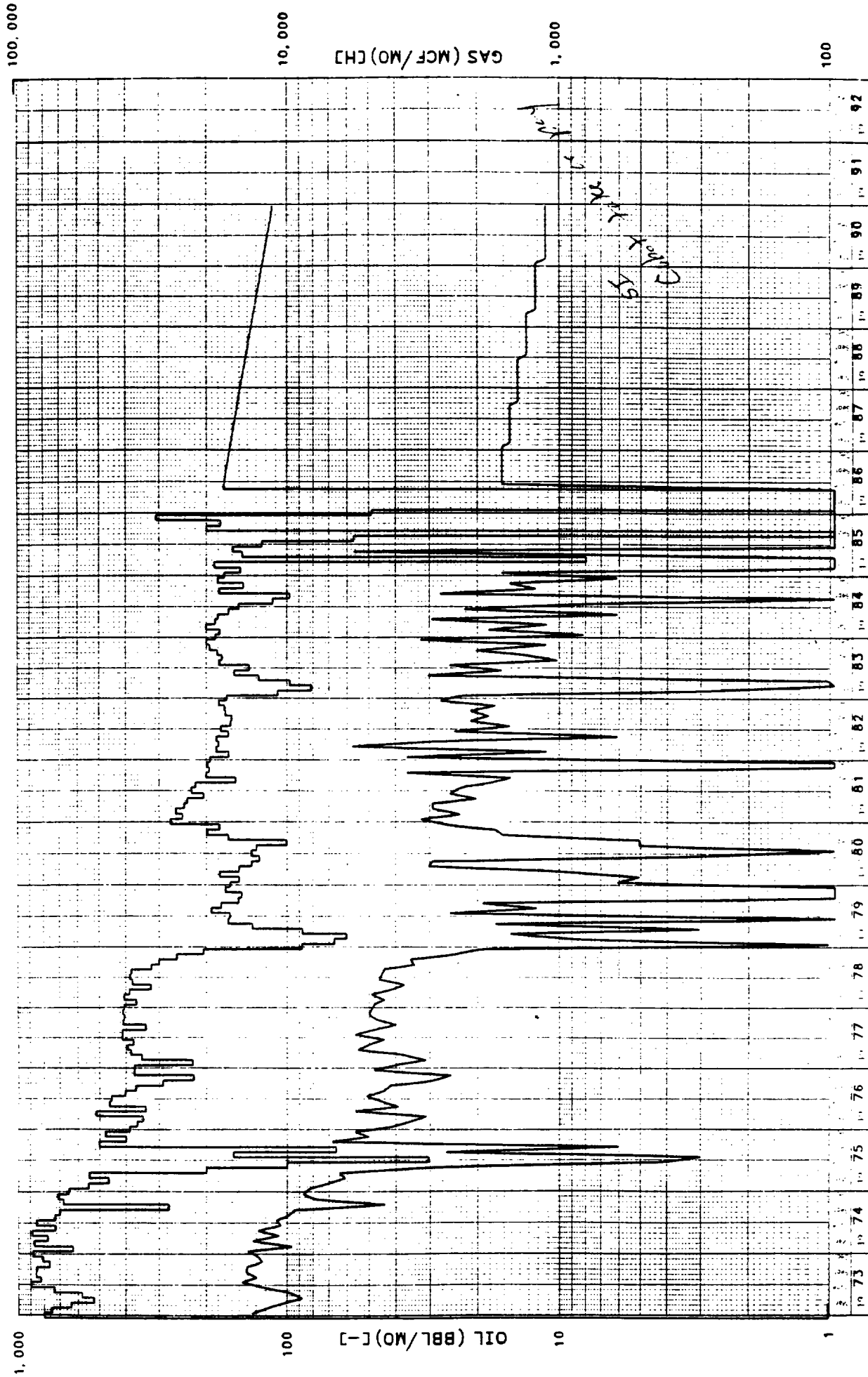
Hanagan
11 Catclaw Dr
TA



Angelo's

ANGLO OIL CORPORATION

LEASE, WELL : CATCLAW DRAW UNIT 1Y
FIELD, ZONE : CATCLAW DRAW MORROW (PRORATED GAS) PM
CNTY, STATE : EDDY NEW MEXICO
OPERATOR : QUINOCO PETROLEUM INC
RET. CODE : 250,015,21S25E26F00PM

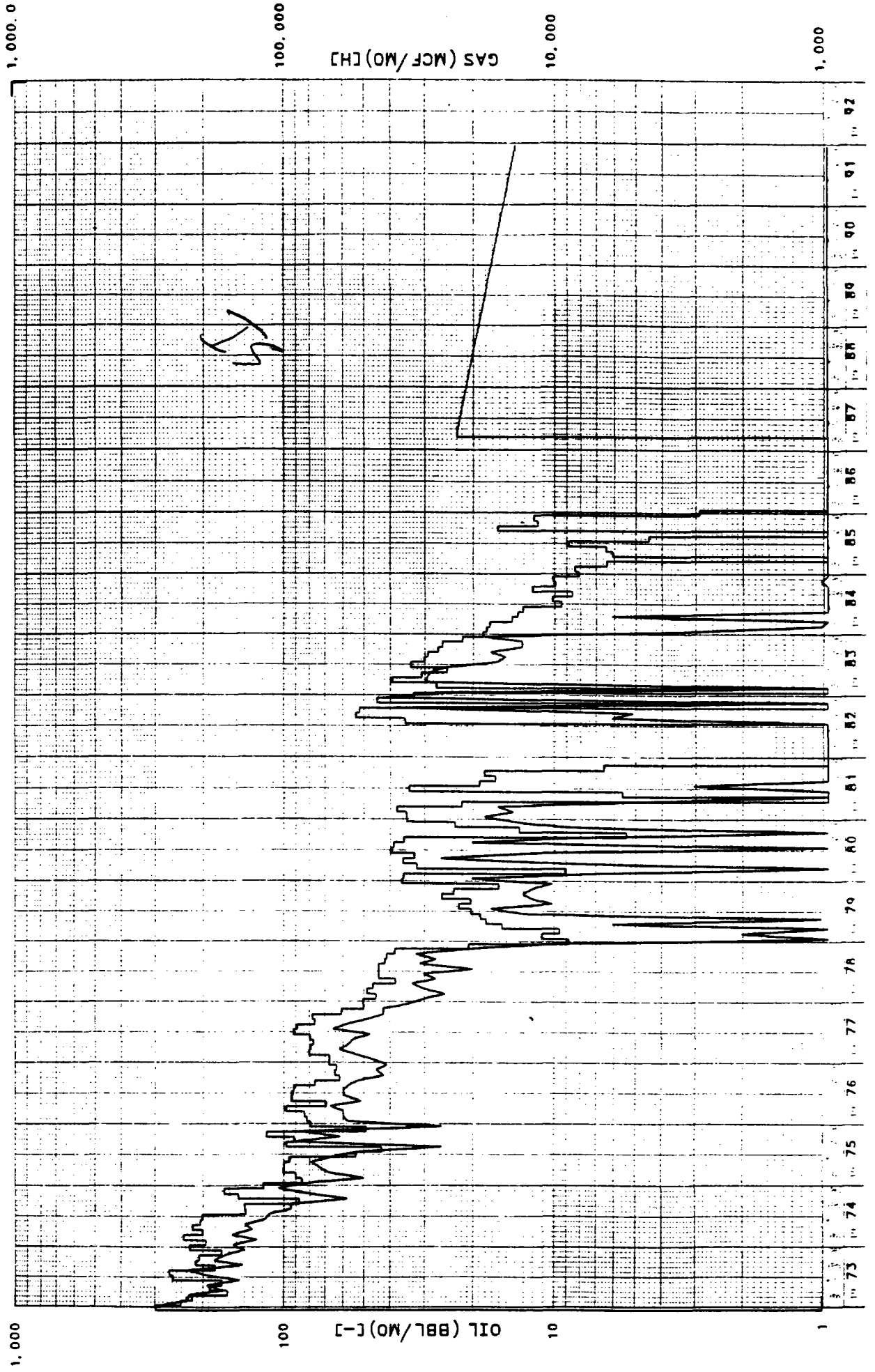




Angeles

QUINOCO PETROLEUM INC

LEASE, WELL : CATCLAW DRAW UNIT 2
FIELD, ZONE : CATCLAW DRAW MORROW (PRORATED GAS) PM
CNTY, STATE : EDDY NEW MEXICO
OPERATOR : QUINOCO PETROLEUM INC
RET. CODE : 250,015,21S25E23G00PM

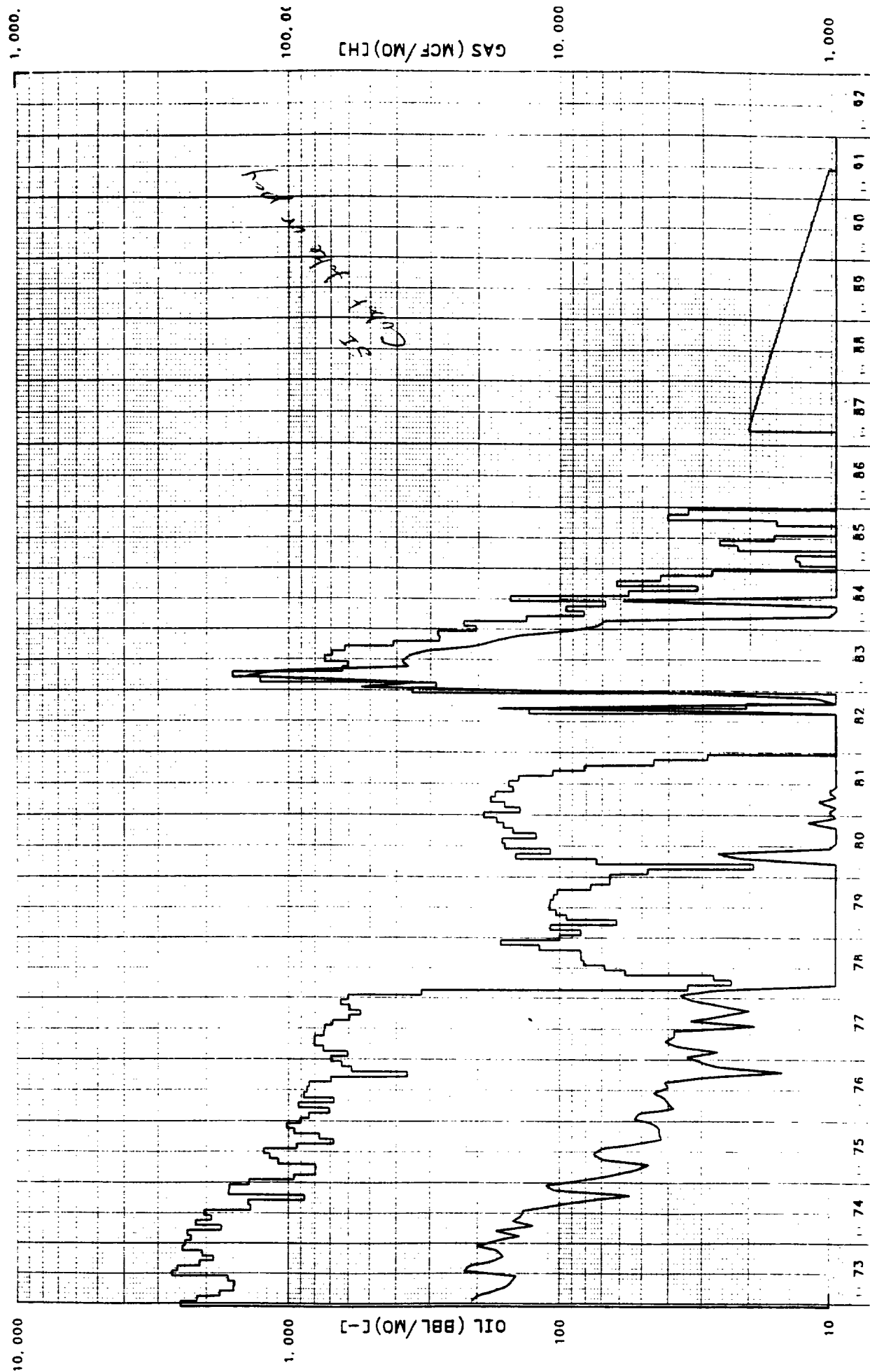




Angeles

QUINOCO PETROLEUM INC.

LEASE, WELL : CATCLAW DRAW UNIT 4
FIELD, ZONE : CATCLAW DRAW MORROW (PRORATED GAS) PM
CNTY, STATE : EDDY NEW MEXICO
OPERATOR : QUINOCO PETROLEUM INC
RET. CODE : 250,015,21S25E24G00PM

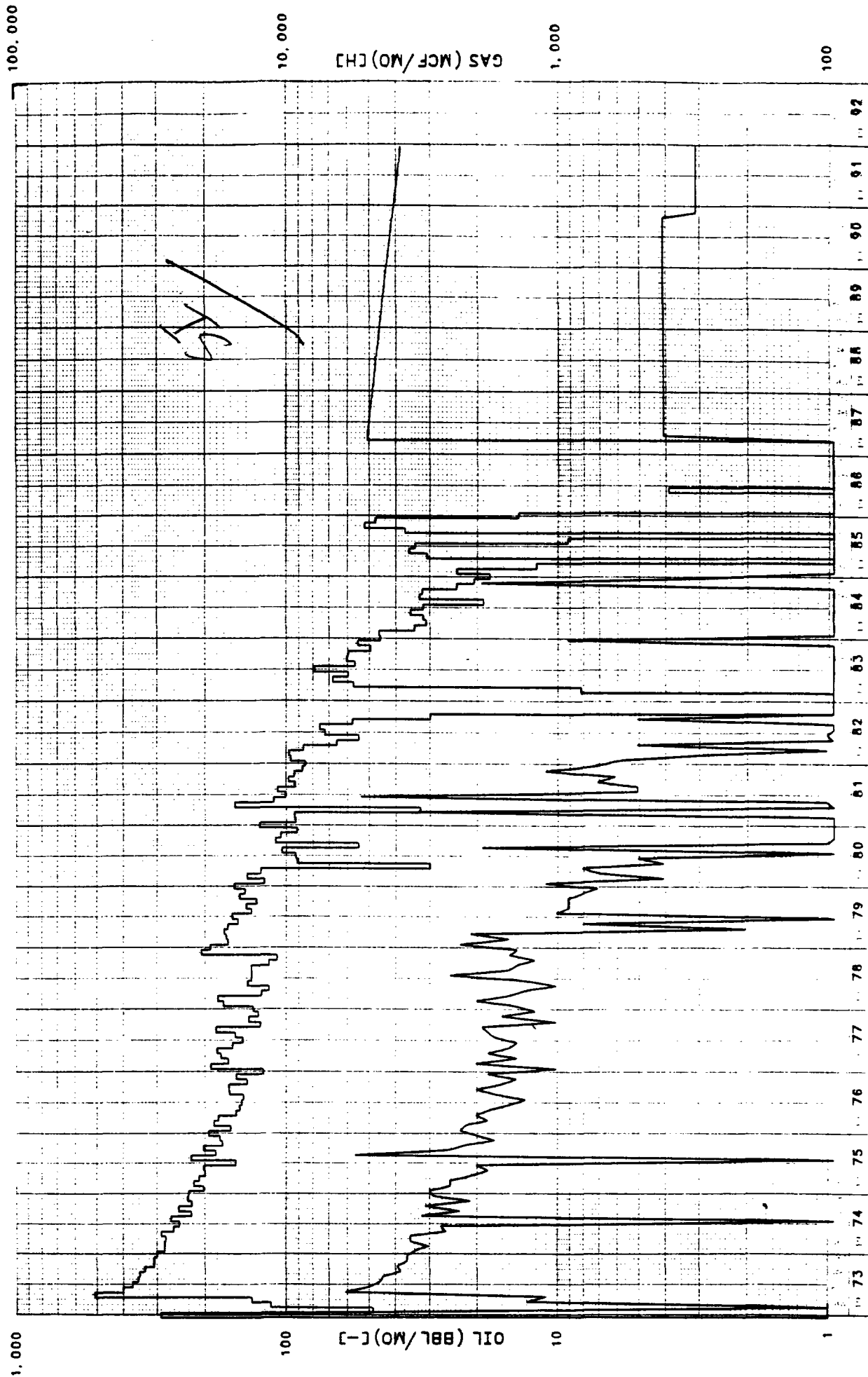




Angoles

QUINOCO PETROLEUM INC

LEASE, WELL : CATCLAW DRAW UNIT 5
FIELD, ZONE : CATCLAW DRAW MORROW (PRORATED GAS) PM
CNTY, STATE : EDDY NEW MEXICO
OPERATOR : QUINOCO PETROLEUM INC
RET. CODE : 250,015,21S25E25G00PM

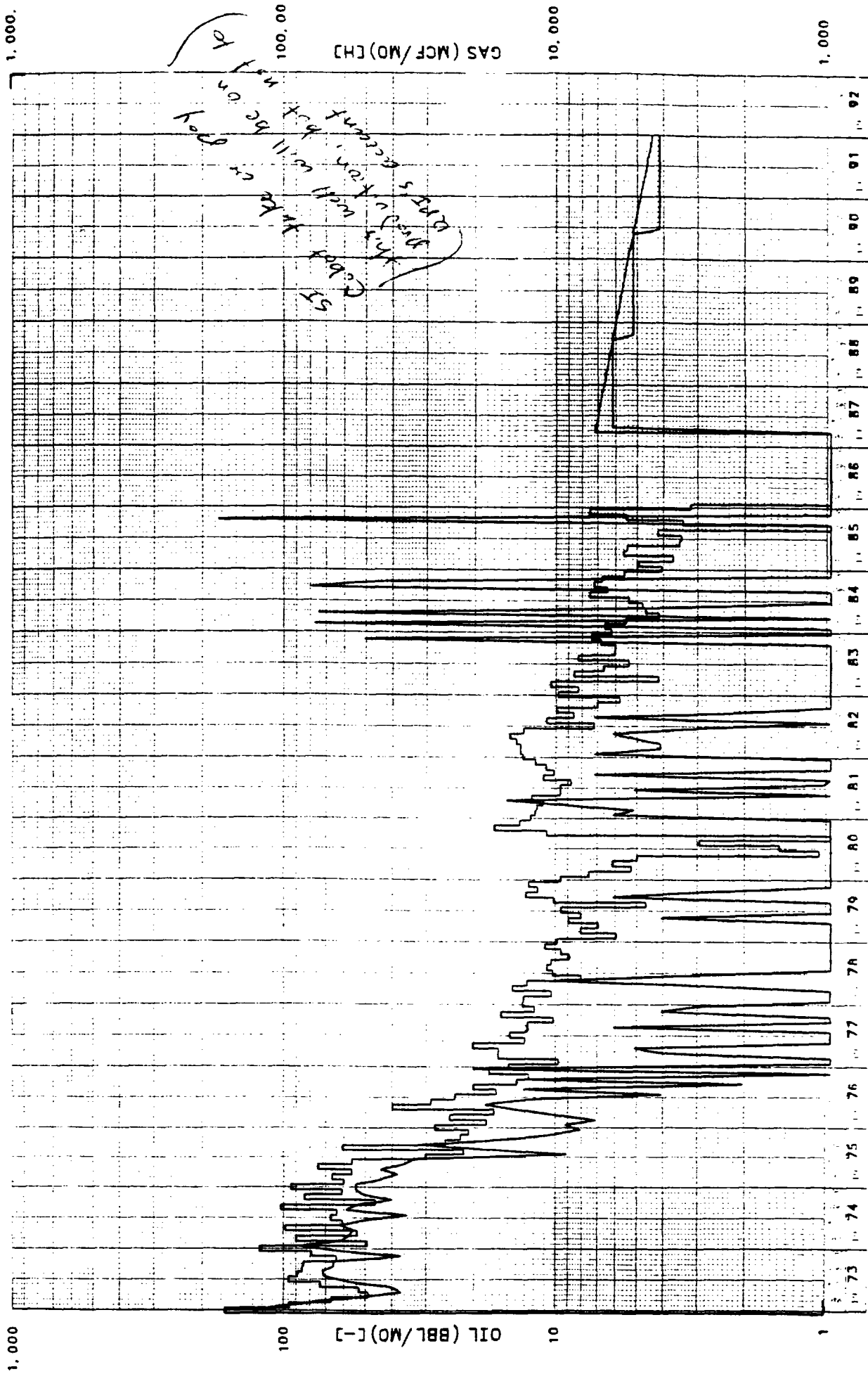




Angelo's

QUINOCO PETROLEUM INC

LEASE, WELL : CATCLAW DRAW UNIT 6
FIELD, ZONE : CATCLAW DRAW MORROW (PRORATED GAS) PM
CNTY, STATE : EDDY NEW MEXICO
OPERATOR : QUINOCO PETROLEUM INC
RET. CODE : 250,015,21S25E13J00PM

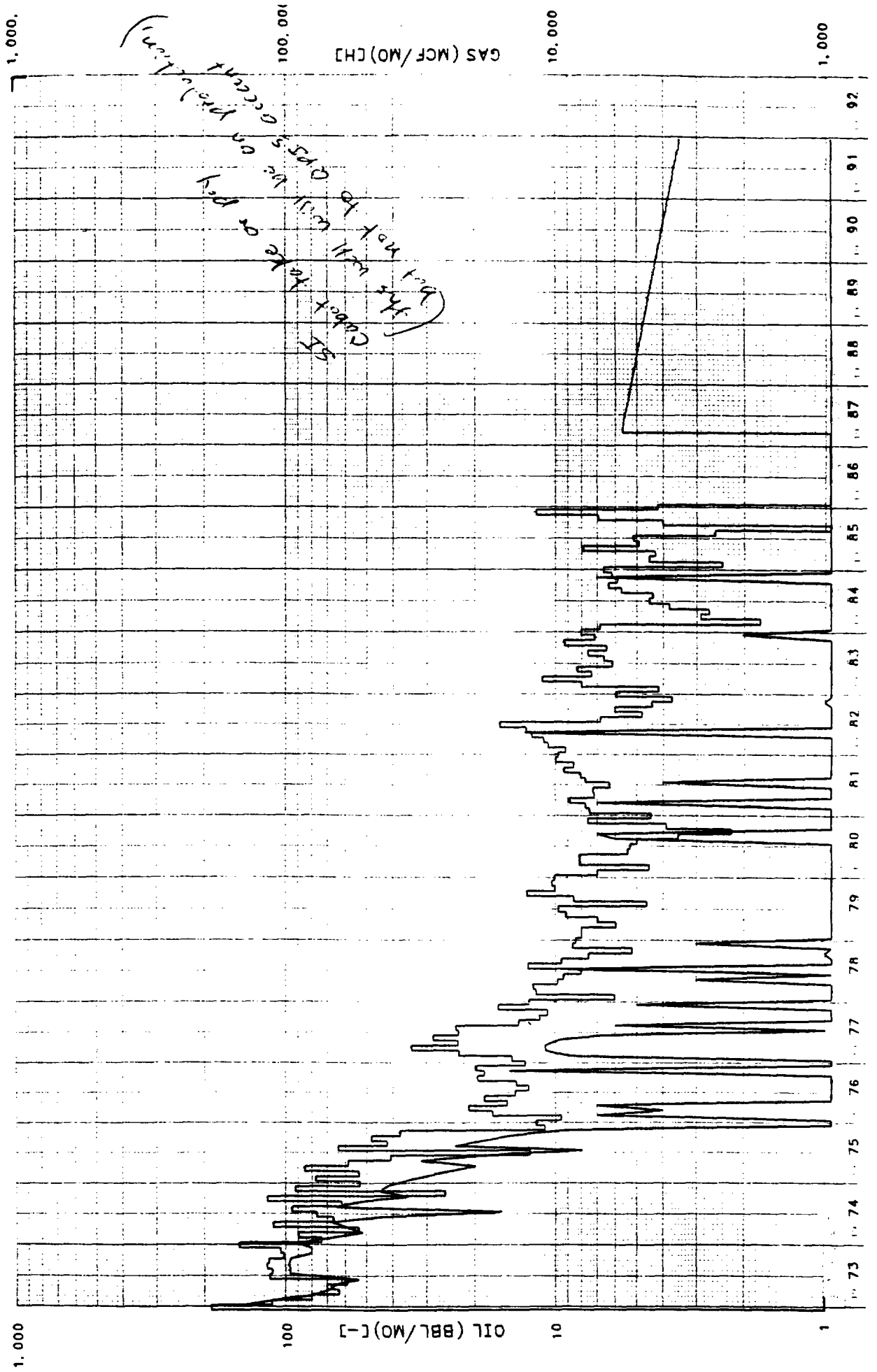




ANGELES

CATCLAW DRAW MORROW (PRORATED GAS) PM

LEASE, WELL : CATCLAW DRAW UNIT 7
FIELD, ZONE : CATCLAW DRAW MORROW (PRORATED GAS) PM
CNTY, STATE : EDDY NEW MEXICO
OPERATOR : QUINOCO PETROLEUM INC
RET. CODE : 250.015,21S25E14J00PM

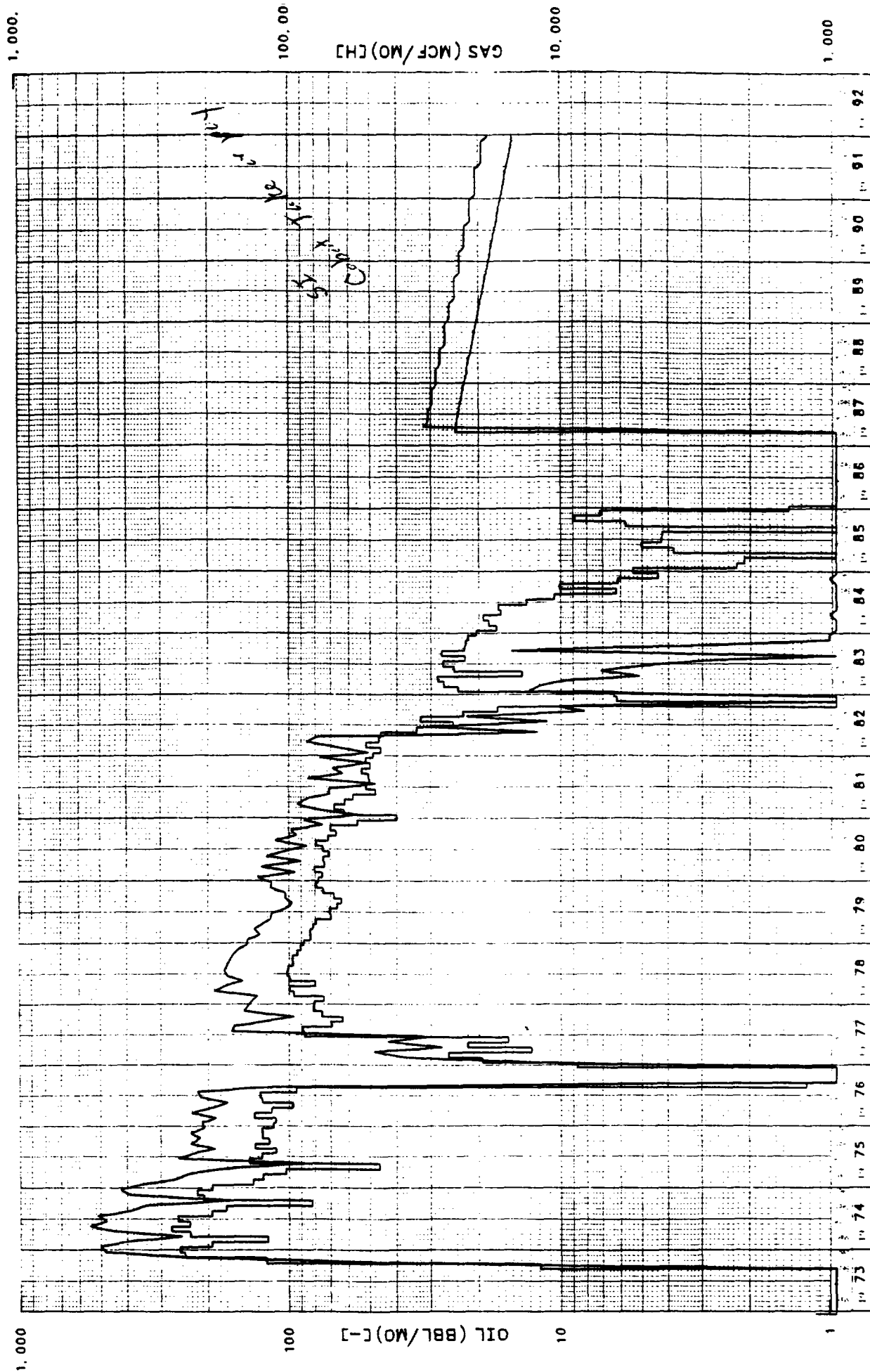




Angeles

ANGELES PETROLEUM INC.

LEASE, WELL : CATCLAW DRAW UNIT 9
FIELD, ZONE : CATCLAW DRAW MORROW (PRORATED GAS) PM
CNTY, STATE : EDDY NEW MEXICO
OPERATOR : QUINOCO PETROLEUM INC
RET. CODE : 250,015,21S25E35F00PM

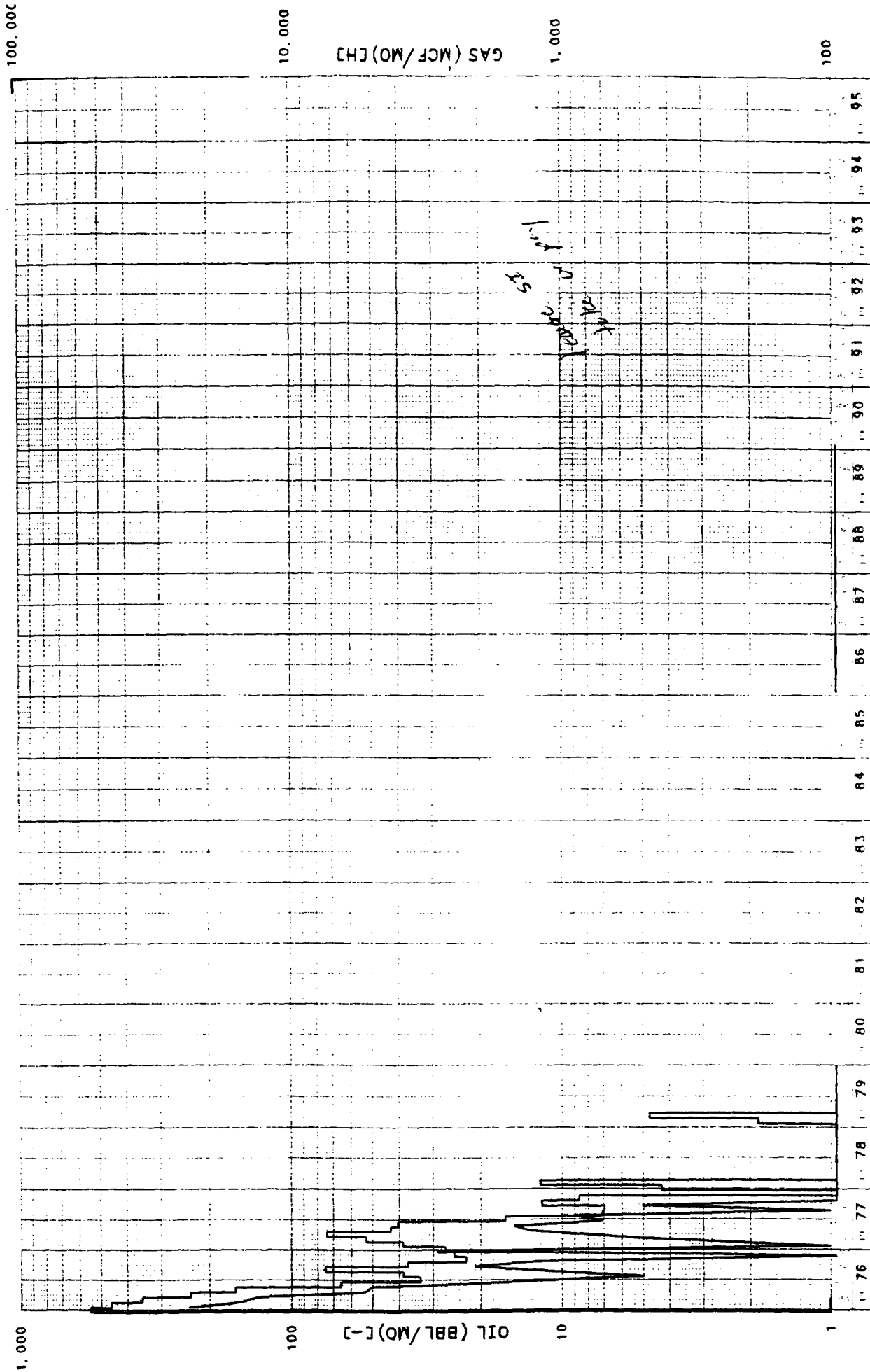




Angels

QUINOCO PETROLEUM INC

LEASE, WELL : CATCLAW DRAW UNIT 11
FIELD, ZONE : CATCLAW DRAW MORROW (PRORATED GAS) PM
CNTY, STATE : EDDY NEW MEXICO
OPERATOR : QUINOCO PETROLEUM INC
RET. CODE : 250,015,21S25E36L00PM

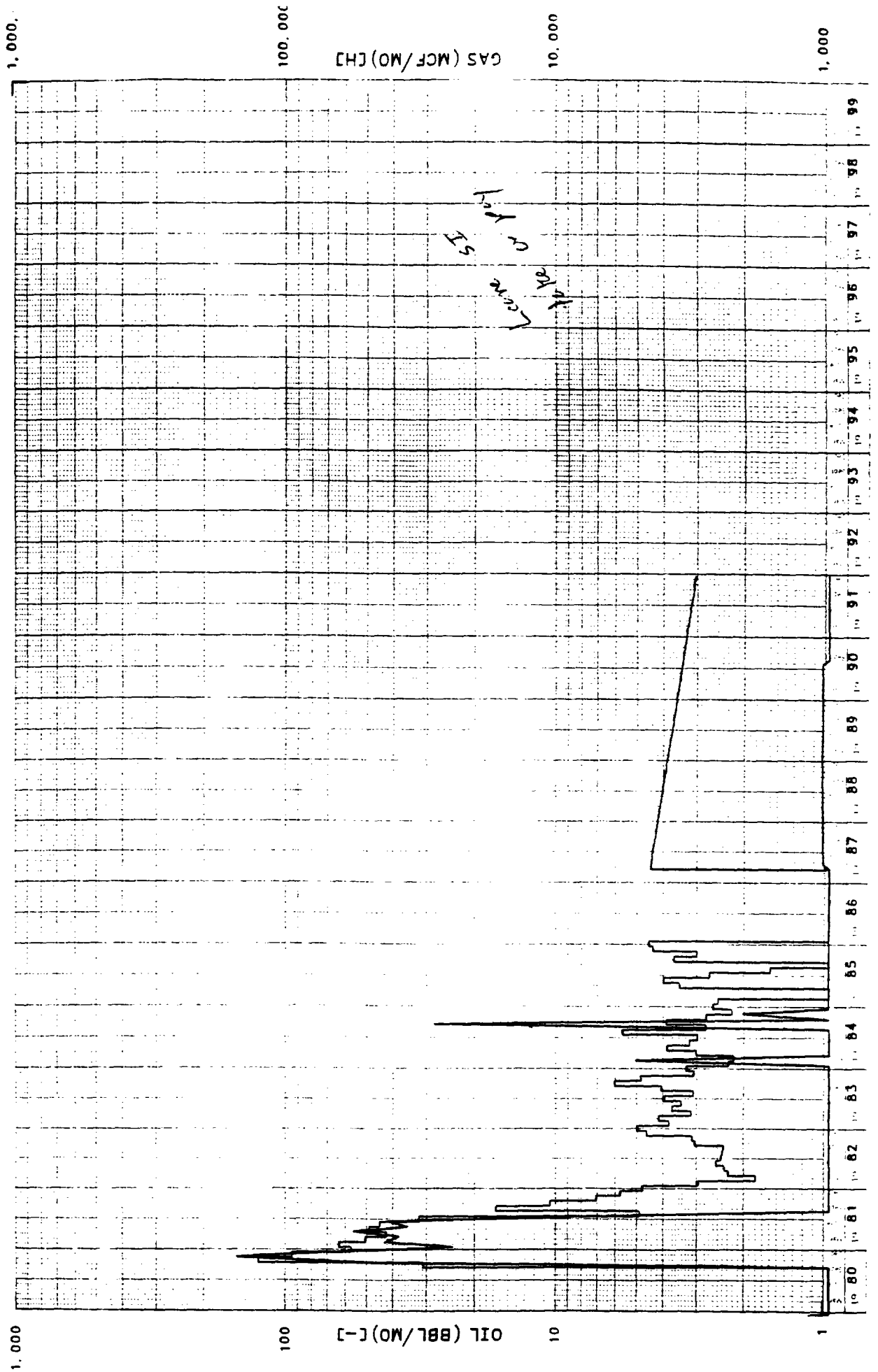


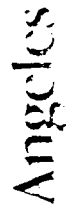


Angeles

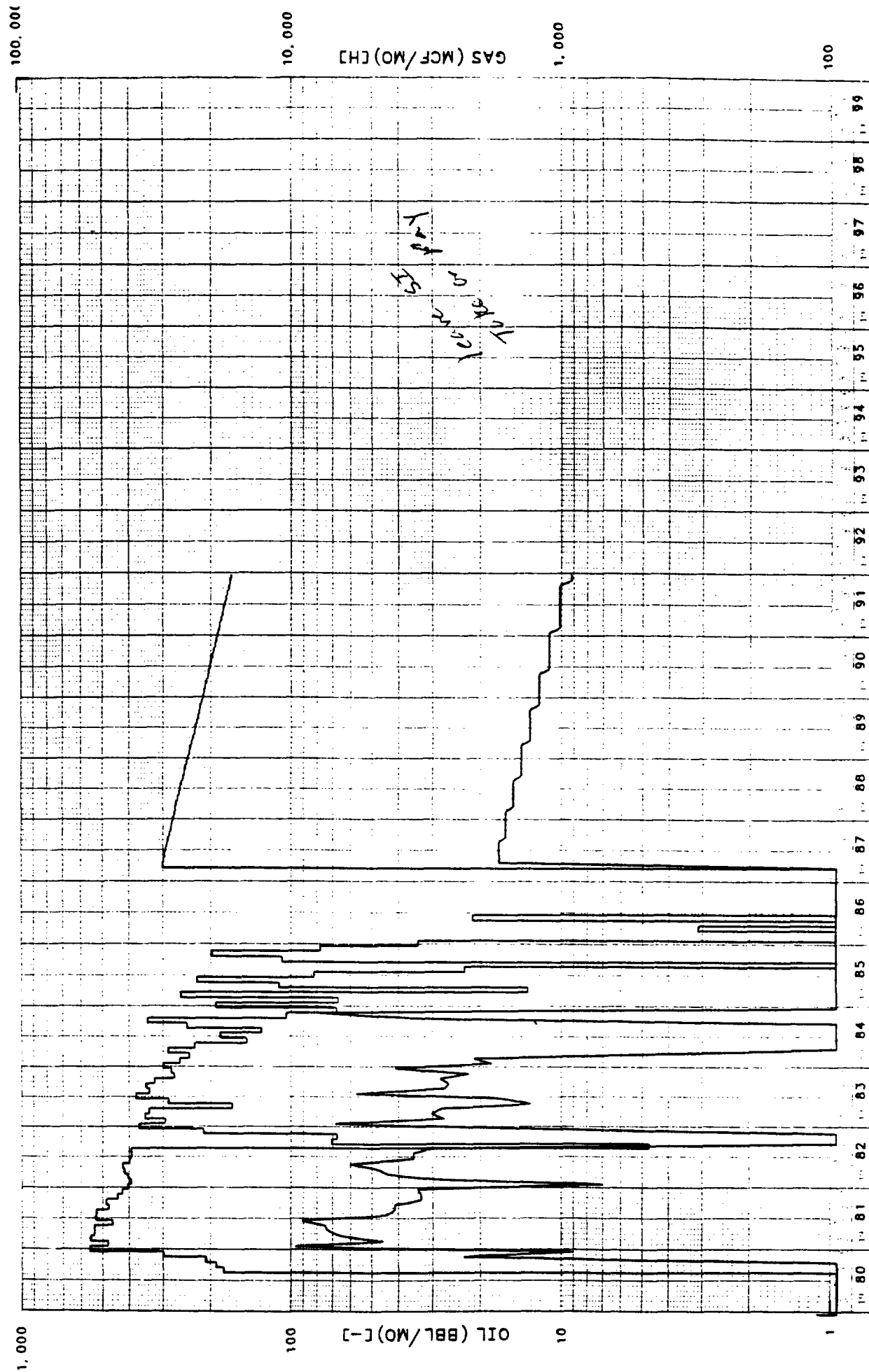
QUINOCO PETROLEUM INC

LEASE, WELL : CATCLAW DRAW UNIT 12
FIELD, ZONE : CATCLAW DRAW MORROW (PRORATED GAS) PM
CNTY, STATE : EDDY NEW MEXICO
OPERATOR : QUINOCO PETROLEUM INC
RET. CODE : 250.015,21S25E24N00PM





LEASE, WELL : CATCLAW DRAW UNIT 13
FIELD, ZONE : CATCLAW DRAW MORROW (PRORATED GAS) PM
CNTY, STATE : EDDY NEW MEXICO
OPERATOR : QUINOCO PETROLEUM INC
RET. CODE : 250.015.21S25E26000PM

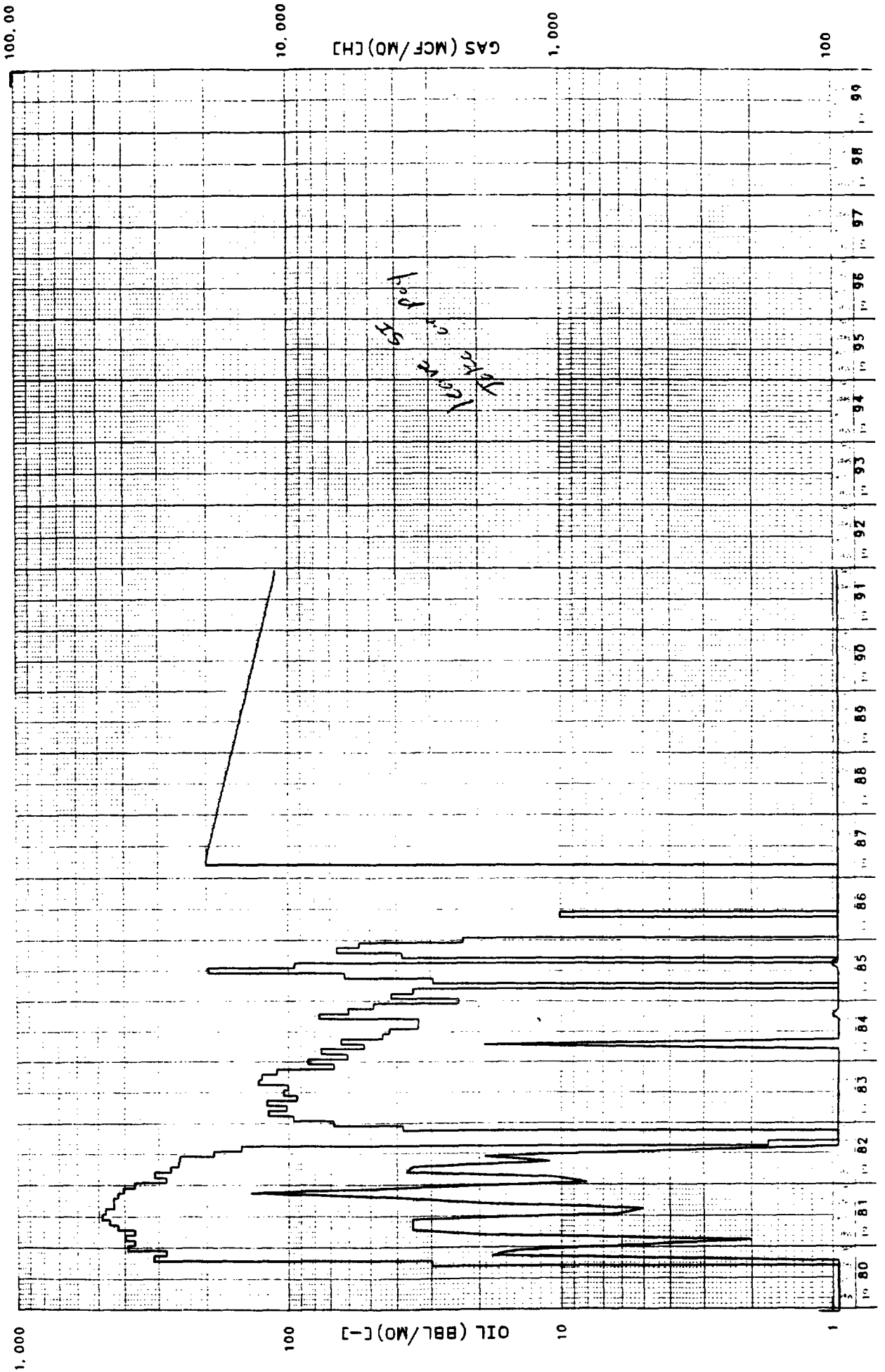




Angels

COMPANY REPORT

LEASE, WELL : CATCLAW DRAW UNIT 14
FIELD, ZONE : CATCLAW DRAW MORROW (PRORATED GAS) PM
CNTY, STATE : EDDY NEW MEXICO
OPERATOR : QUINOCO PETROLEUM INC
RET. CODE : 250,015,21S25E23000PM

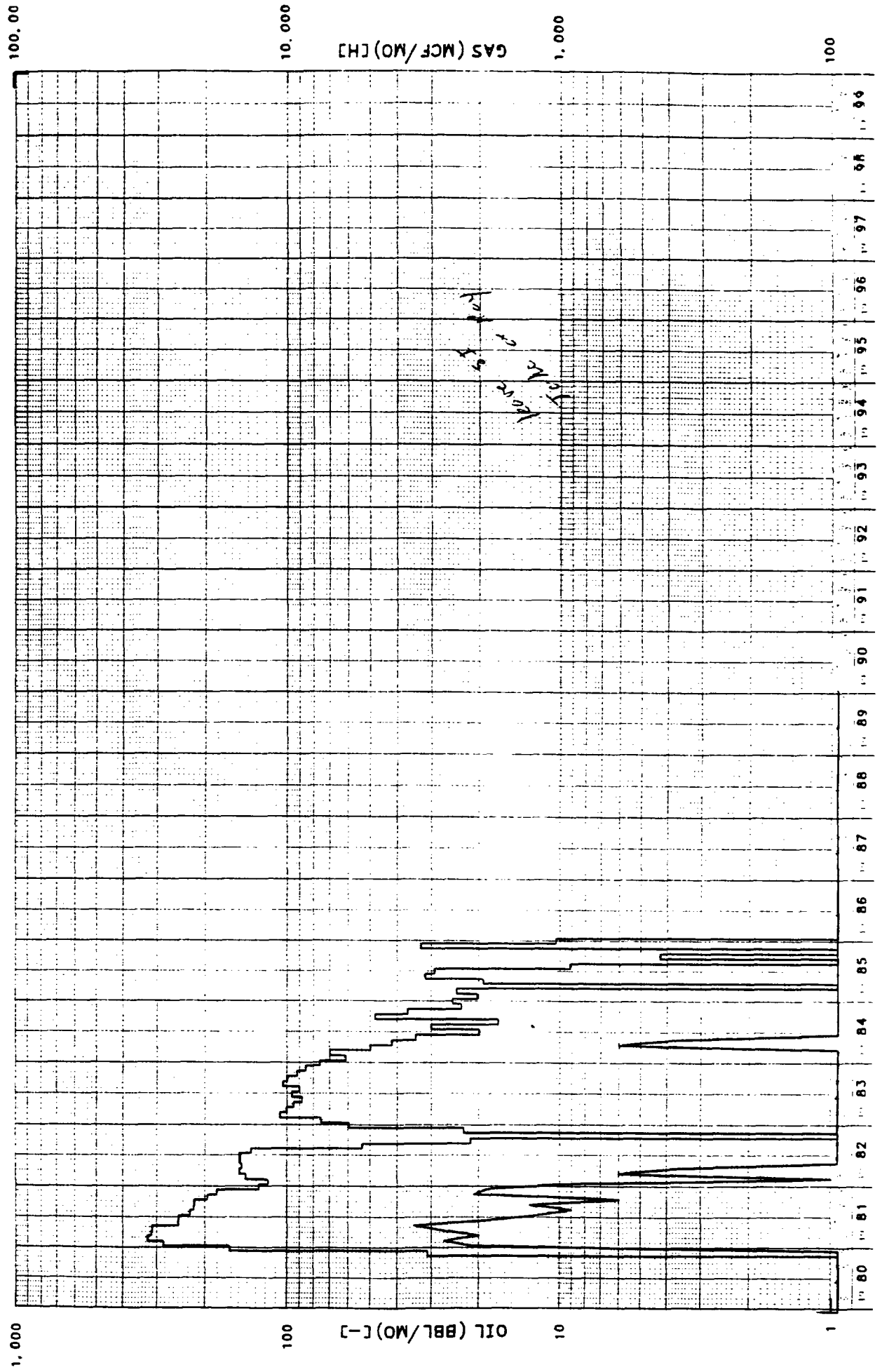


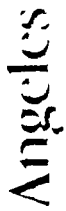


Angeles

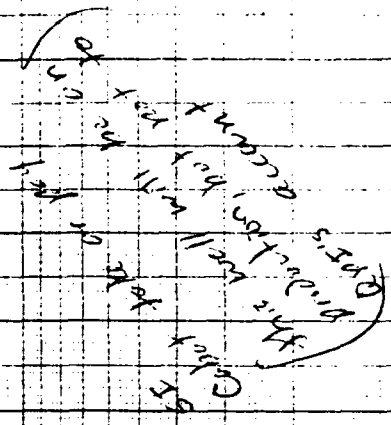
QUINOCO PETROLEUM, INC.

LEASE, WELL : CATCLAW DRAW UNIT 15
FIELD, ZONE : CATCLAW DRAW MORROW (PRORATED GAS) PM
CNTY, STATE : EDDY NEW MEXICO
OPERATOR : QUINOCO PETROLEUM INC
RET. CODE : 250,015,21S25E25L00PM





LEASE, WELL : CATCLAW DRAW UNIT COM 16
FIELD, ZONE : CATCLAW DRAW MORROW (PRORATED GAS) PM
CNTY, STATE : EDDY NEW MEXICO
OPERATOR : QUINOCO PETROLEUM INC
RET. CODE : 250.015.21S25E13E00PM

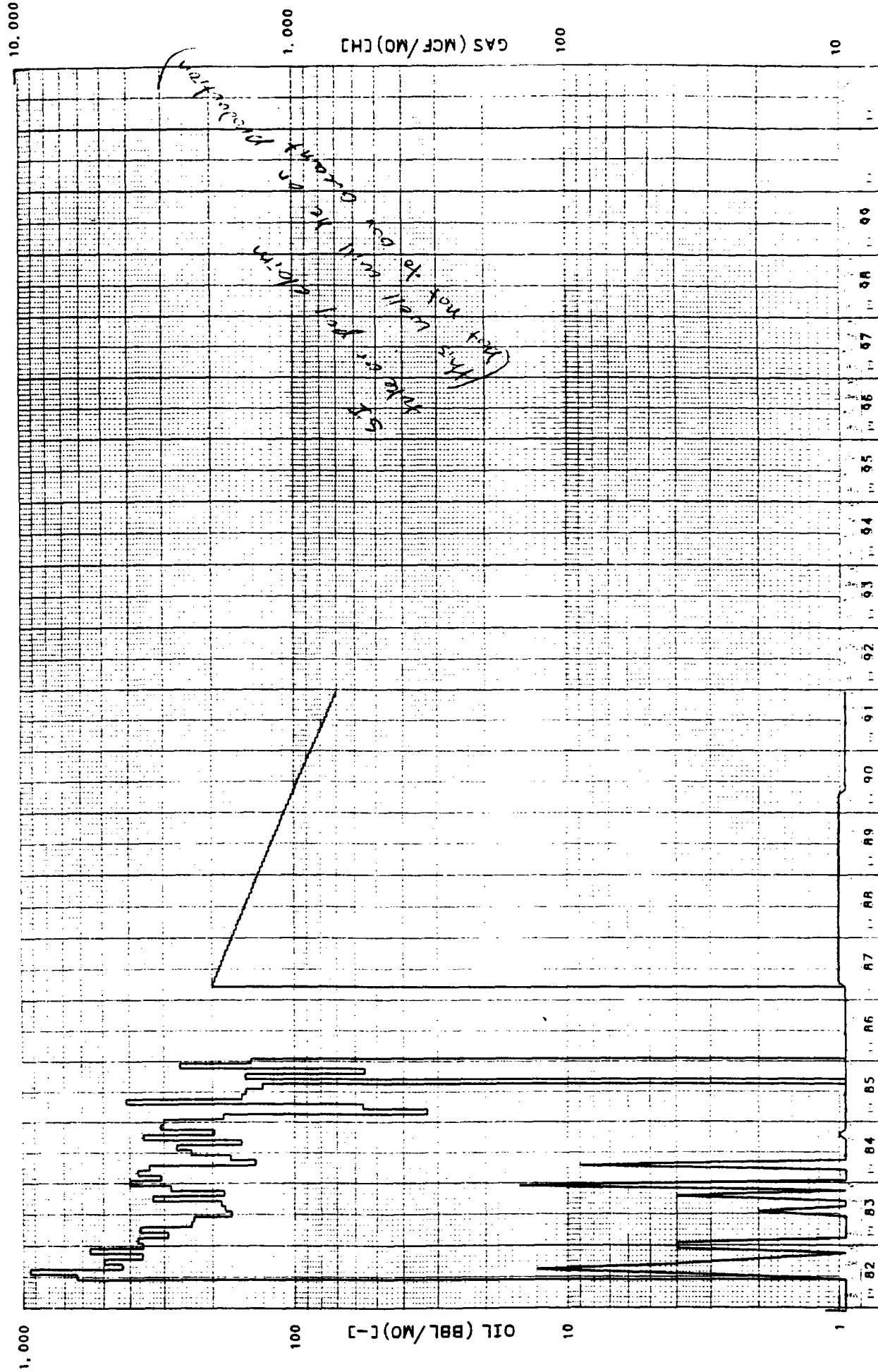




Angelo's

OUNG OF PETROLEUM, INC.

LEASE, WELL : CATCLAW DRAW UNIT COM 17
FIELD, ZONE : CATCLAW DRAW MORROW (PRORATED GAS) PM
CNTY, STATE : EDDY NEW MEXICO
OPERATOR : QUINOCO PETROLEUM INC
RET. CODE : 250,015,21S25E14B00PM



State of New Mexico

4476



JIM BACA
COMMISSIONER

Commissioner of Public Lands

February 12, 1985

P.O. BOX 1148
SANTA FE, NEW MEXICO 87504-1148
Express Mail Delivery User
310 Old Santa Fe Trail
Santa Fe, New Mexico 87501

EMCOR Petroleum Inc.
303 East 17th Avenue Suite 500
Denver, Colorado 80203-1288

Re: Catclaw Draw Unit
Resignation-Designation Unit Operator
Eddy County, New Mexico
Your file # 135-03

ATTENTION: Ms. Judy Ball

Gentlemen:

The Commissioner of Public Lands has this date approved the Resignation of Tenneco Oil Company as unit operator of the Catclaw Draw Unit, Eddy County, New Mexico and approved the selection of EMCOR Petroleum, Inc. as the successor unit operator as to said unit. The Resignation of Tenneco Oil Company and the Designation of EMCOR Petroleum, Inc. is effective as of September 1, 1984. Our approval is subject to like approval by the Bureau of Land Management.

Enclosed is an approved copy for your files.

Very truly yours,

JIM BACA
COMMISSIONER OF PUBLIC LANDS

BY: *Ray D. Graham*
RAY D. GRAMAM, Director
Oil and Gas Division
AC 505/827-5744

JB/RDG/pm
encls.

cc: OCD-Santa Fe, New Mexico Attn: Mr. Michael Stogner
BLM-Albuquerque, New Mexico Attn: Fluids Branch
BLM-Roswell, New Mexico Attn: Mr. Armado Lopez
Atlantic Richfield Co. Attn: Mr. Alan Harvey



United States Department of the Interior

BUREAU OF LAND MANAGEMENT

Roswell District Office

P. O. Box 1397

Roswell, New Mexico 88201

IN REPLY
REFER TO:

3180
14-08-0001-11588

February 5, 1985

EMCOR Petroleum, Inc.
Attn: Judy Ball
303 East 17th Ave., Suite 500
Denver, Colorado 80203-1288

Gentlemen:

The designation of successor operator submitted to this office for the Catclaw Draw Unit, Contract Number 14-08-0001-11588, T. 21 S., R. 25 E., N.M.P.M., Eddy County, New Mexico, has been received and was approved effective as of September 1, 1984.

Enclosed is one copy of the approved designation of successor operator for your files. Please furnish all interested principles with appropriate evidence of this approval.

Sincerely yours,

/s/ Robert R. Calkins

~~Associate~~ District Manager

Enclosure

cc: ✓ Commissioner of Public Lands, Santa Fe (w/enclosure)

RESIGNATION OF UNIT OPERATOR

CATCLAW DRAW UNIT AREA

Eddy County

State of New Mexico

No. 14-08-0001-11588

Under and pursuant to the provisions of Section 5 of the Unit Agreement for the Development and Operation of the Catclaw Draw Unit, Eddy County, New Mexico, Tenneco Oil Company, the designated Unit Operator under said Unit Agreement, does hereby resign as Unit Operator, effective upon the selection and approval of a successor Unit Operator, or upon the date of September 1, 1984, whichever occurs first.

EXECUTED with effect as aforesaid this 1st day of March, 1984.

TENNECO OIL COMPANY

ATTEST:

By:

H. J. BRISCOE, JR., ATTORNEY-IN-FACT

DESIGNATION OF

SUCCESSOR UNIT OPERATOR

Catclaw Draw Unit Area

Eddy County

State of New Mexico

No. 14-08-0001-11588

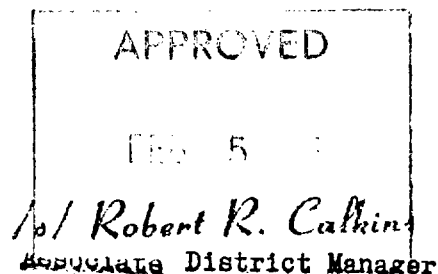
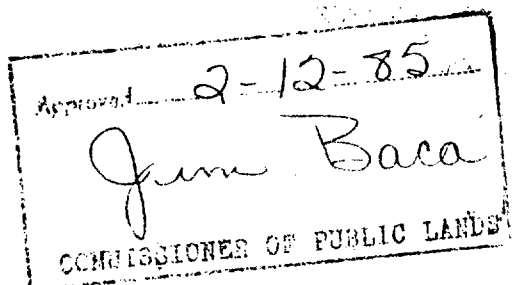
✓ THIS INDENTURE, dated as of the 1st day of March, 1984, by and between EMCOR PETROLEUM, INC., hereinafter designated "First Party", and the owners of the working interests, hereinafter designated as "Second Parties";

W I T N E S S E T H :

WHEREAS, under the provisions of the Act of February 25, 1920, 41 Sta. 437, 30 U. S. C. Secs. 181, et seq., as amended by the Act of August 8, 1946, 60 Stat. 950, the Secretary of the Interior, acting by and through the Acting Deputy Minerals Manager for Oil and Gas, on the 28th day of January, 1971, approved a Unit Agreement for the Catclaw Draw Unit area, wherein Tenneco Oil Company is designated as Unit Operator; and

WHEREAS, Tenneco Oil Company desires to resign as such Unit Operator, and the designation of a Successor Unit Operator is now required pursuant to the terms thereof; and

WHEREAS, the First Party has been and hereby is designated Unit Operator by Second Parties, and said First Party desires to assume all rights, duties and obligations of Unit Operator under the said Unit Agreement:



RESIGNATION OF UNIT OPERATOR

CATCLAW DRAW UNIT AREA

Eddy County

State of New Mexico

No. 14-08-0001-11588

Under and pursuant to the provisions of Section 5 of the Unit Agreement for the Development and Operation of the Catclaw Draw Unit, Eddy County, New Mexico, Tenneco Oil Company, the designated Unit Operator under said Unit Agreement, does hereby resign as Unit Operator, effective upon the selection and approval of a successor Unit Operator, or upon the date of September 1, 1984, whichever occurs first.

EXECUTED with effect as aforesaid this 1st day of March, 1984.

TENNECO OIL COMPANY

ATTEST:

By:

H. J. BRISCOE, JR., ATTORNEY-IN-FACT

DESIGNATION OF

SUCCESSOR UNIT OPERATOR

Catclaw Draw Unit Area

Eddy County

State of New Mexico

No. 14-08-0001-11588

THIS INDENTURE, dated as of the 1st day of March, 1984, by and between EMCOR PETROLEUM, INC., hereinafter designated "First Party", and the owners of the working interests, hereinafter designated as "Second Parties";

W I T N E S S E T H :

WHEREAS, under the provisions of the Act of February 25, 1920, 41 Sta. 437, 30 U. S. C. Secs. 181, et seq., as amended by the Act of August 8, 1946, 60 Stat. 950, the Secretary of the Interior, acting by and through the Acting Deputy Minerals Manager for Oil and Gas, on the 28th day of January, 1971, approved a Unit Agreement for the Catclaw Draw Unit area, wherein Tenneco Oil Company is designated as Unit Operator; and

WHEREAS, Tenneco Oil Company desires to resign as such Unit Operator, and the designation of a Successor Unit Operator is now required pursuant to the terms thereof; and

WHEREAS, the First Party has been and hereby is designated Unit Operator by Second Parties, and said First Party desires to assume all rights, duties and obligations of Unit Operator under the said Unit Agreement:

NOW, THEREFORE, in consideration of the premises hereinabove set forth and the promises hereafter stated, the First Party hereby covenants and agrees to fulfill the duties and assume the obligations of Unit Operator under and pursuant to the terms of the Catclaw Draw Unit Agreement, and the Second Parties covenant and agree that, effective upon approval of this indenture by the Director of the Bureau of Land Management, First Party shall be granted the exclusive right and privilege of exercising any and all rights and privileges as Unit Operator, pursuant to the terms and conditions of said Unit Agreement; said Unit Agreement being hereby incorporated herein by reference and made a part hereof as fully and effectively as though said Unit Agreement was expressly set forth in this instrument.

This agreement may be executed in any number of counterparts each of which shall be considered an original for all purposes.

IN WITNESS WHEREOF, the parties hereto have executed this instrument as of the date hereinabove set forth.

FIRST PARTY

EMCOR PETROLEUM, INC.

ATTEST:

By: _____
Frank E. Dinges, President

SECOND PARTIES

EM NOMINEE PARTNERSHIP COMPANY

WITNESS:

By: _____
Frank E. Dinges, Atty-in-Fact

ARCO EXPLORATION COMPANY

ATTEST:

By: _____

HOLLY ENERGY, INC.

ATTEST:

By: _____

READ & STEVENS, INC.

ATTEST:

By: _____

INEXCO OIL COMPANY

ATTEST:

By: _____

UNION OIL OF CALIFORNIA

ATTEST:

By: _____

AMOCO PRODUCTION COMPANY

ATTEST:

By: _____

SHELL OIL COMPANY

ATTEST:

By: _____

TENNECO OIL COMPANY

ATTEST:

By: H. J. Briscoe, Jr.

H. J. BRISCOE, JR., ATTORNEY-IN-FACT
WESTERN RESERVES, INC.

to
HJ
Briscoe

ATTEST:

By: _____

LARIO OIL & GAS COMPANY

ATTEST:

By: _____

DELTA DRILLING COMPANY

ATTEST:

By: _____

GULF OIL EXPLORATION & PRODUCTION COMPANY

ATTEST:

By: _____

ALLIED CHEMICAL CORPORATION

ATTEST:

By: _____

ATTORNEY-IN-FACT ACKNOWLEDGEMENT

THE STATE OF TEXAS
COUNTY OF BEXAR

This instrument was acknowledged before me on June 14
1984, by H. J. Briscoe, Jr., as Attorney-in-Fact on behalf of Tenneco Oil
Company, a Delaware corporation.

Carol L. Clark
Notary Public, State of Texas

My commission expires:
CAROL L. CLARK
Notary Public, State of Texas
My Commission Expires 4-15-85

NOW, THEREFORE, in consideration of the premises hereinabove set forth and the promises hereafter stated, the First Party hereby covenants and agrees to fulfill the duties and assume the obligations of Unit Operator under and pursuant to the terms of the Catclaw Draw Unit Agreement, and the Second Parties covenant and agree that, effective upon approval of this indenture by the Director of the Bureau of Land Management, First Party shall be granted the exclusive right and privilege of exercising any and all rights and privileges as Unit Operator, pursuant to the terms and conditions of said Unit Agreement; said Unit Agreement being hereby incorporated herein by reference and made a part hereof as fully and effectively as though said Unit Agreement was expressly set forth in this instrument.

This agreement may be executed in any number of counterparts each of which shall be considered an original for all purposes.

IN WITNESS WHEREOF, the parties hereto have executed this instrument as of the date hereinabove set forth.

FIRST PARTY

EMCOR PETROLEUM, INC.

By: Frank E. Dinges 22
Frank E. Dinges, President

ATTEST: [Signature]

SECOND PARTIES

EM NOMINEE PARTNERSHIP COMPANY

By: Frank E. Dinges 22
Frank E. Dinges, Atty-in-fact

WITNESS: Sharon Schmitt

ARCO EXPLORATION COMPANY

ATTEST: _____

By: _____

HOLLY ENERGY, INC.

ATTEST: _____

By: _____

READ & STEVENS, INC.

ATTEST: _____

By: _____

INEXCO OIL COMPANY

ATTEST: _____

By: _____

UNION OIL OF CALIFORNIA

ATTEST: _____

By: _____

AMOCO PRODUCTION COMPANY

ATTEST:

By: _____

SHELL OIL COMPANY

ATTEST:

By: _____

TENNECO OIL COMPANY

ATTEST:

By: _____

WESTERN RESERVES, INC.

ATTEST:

By: _____

LARIO OIL & GAS COMPANY

ATTEST:

By: _____

DELTA DRILLING COMPANY

ATTEST:

By: _____

GULF OIL EXPLORATION & PRODUCTION COMPANY

ATTEST:

By: _____

ALLIED CHEMICAL CORPORATION

ATTEST:

By: _____

ACKNOWLEDGEMENT

State of COLORADO)
County of DENVER) ss

The foregoing instrument was acknowledged before me, a Notary Public,
on this 1ST day of MARCH, 1984, by FRANK E. DINGES, known to me to be the
PRESIDENT of EMCOR PETROLEUM, INC.

WITNESS my hand and seal this 1ST day of MARCH,
1984.

My Commission Expires:

6-22-87

Imogene Janet
Notary Public

RECEIVED
FEB 11 10 22 AM '85
STATE LAND OFFICE
SANTA FE, N.M.

ACKNOWLEDGEMENT

State of COLORADO)
County of DENVER) ss

The foregoing instrument was acknowledged before me, a Notary Public,
on this 1ST day of MARCH, 1984, by FRANK E. DINGES, known to me to be the
ATTY-IN-FACT of EM NOMINEE PARTNERSHIP COMPANY

WITNESS my hand and seal this 1ST day of MARCH,
1984.

My Commission Expires:

6-22-87

Ernest Hamet
Notary Public

NOW, THEREFORE, in consideration of the premises hereinabove set forth and the promises hereafter stated, the First Party hereby covenants and agrees to fulfill the duties and assume the obligations of Unit Operator under and pursuant to the terms of the Catclaw Draw Unit Agreement, and the Second Parties covenant and agree that, effective upon approval of this indenture by the Director of the Bureau of Land Management, First Party shall be granted the exclusive right and privilege of exercising any and all rights and privileges as Unit Operator, pursuant to the terms and conditions of said Unit Agreement; said Unit Agreement being hereby incorporated herein by reference and made a part hereof as fully and effectively as though said Unit Agreement was expressly set forth in this instrument.

This agreement may be executed in any number of counterparts each of which shall be considered an original for all purposes.

IN WITNESS WHEREOF, the parties hereto have executed this instrument as of the date hereinabove set forth.

FIRST PARTY

EMCOR PETROLEUM, INC.

ATTEST:

By: _____
Frank E. Dinges, President

SECOND PARTIES

EM NOMINEE PARTNERSHIP COMPANY

WITNESS:

By: _____
Frank E. Dinges, Atty-in-Fact

ARCO EXPLORATION COMPANY

ATTEST:

By: _____

HOLLY ENERGY, INC.

ATTEST:

Assistant Secretary

By: _____
William H. Boyles, Vice President

READ & STEVENS, INC.

ATTEST:

By: _____

INEXCO OIL COMPANY

ATTEST:

By: _____

UNION OIL OF CALIFORNIA

ATTEST:

By: _____

AMOCO PRODUCTION COMPANY

ATTEST:

By: _____

SHELL OIL COMPANY

ATTEST:

By: _____

TENNECO OIL COMPANY

ATTEST:

By: _____

WESTERN RESERVES, INC.

ATTEST:

By: _____

LARIO OIL & GAS COMPANY

ATTEST:

By: _____

DELTA DRILLING COMPANY

ATTEST:

By: _____

GULF OIL EXPLORATION & PRODUCTION COMPANY

ATTEST:

By: _____

ALLIED CHEMICAL CORPORATION

ATTEST:

By: _____

ACKNOWLEDGEMENT

State of TEXAS)
) ss
County of DALLAS)

The foregoing instrument was acknowledged before me, a Notary Public,
on this 12th day of June, 1984, by _____
William H. Boyles, known to me to be the _____
Vice President of HOLLY ENERGY, INC.

WITNESS my hand and seal this 12th day of June,
1984.

My Commission Expires:

Dolly Gaster
Notary Public

DOLLY GASTER,
In and for the State of _____
My Commission Expires 10-14-84

NOW, THEREFORE, in consideration of the premises hereinabove set forth and the promises hereafter stated, the First Party hereby covenants and agrees to fulfill the duties and assume the obligations of Unit Operator under and pursuant to the terms of the Catclaw Draw Unit Agreement, and the Second Parties covenant and agree that, effective upon approval of this indenture by the Director of the Bureau of Land Management, First Party shall be granted the exclusive right and privilege of exercising any and all rights and privileges as Unit Operator, pursuant to the terms and conditions of said Unit Agreement; said Unit Agreement being hereby incorporated herein by reference and made a part hereof as fully and effectively as though said Unit Agreement was expressly set forth in this instrument.

This agreement may be executed in any number of counterparts each of which shall be considered an original for all purposes.

IN WITNESS WHEREOF, the parties hereto have executed this instrument as of the date hereinabove set forth.

FIRST PARTY

EMCOR PETROLEUM, INC.

ATTEST:

By: _____
Frank E. Dinges, President

SECOND PARTIES

EM NOMINEE PARTNERSHIP COMPANY

WITNESS:

By: _____
Frank E. Dinges, Atty-in-Fact

ARCO EXPLORATION COMPANY

ATTEST:

By: _____

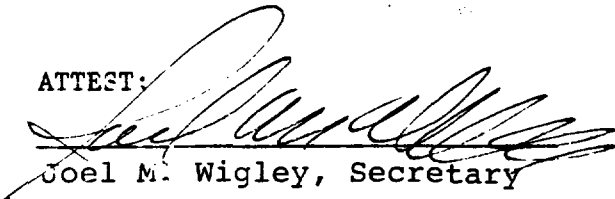
HOLLY ENERGY, INC.

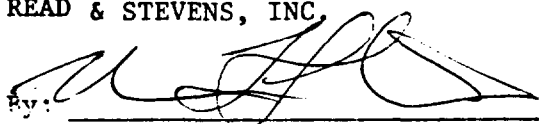
ATTEST:

By: _____

READ & STEVENS, INC.

ATTEST:


Joel M. Wigley, Secretary

By:  _____

Norman L. Stevens, Jr., Vice-President
INEXCO OIL COMPANY

ATTEST:

By: _____

UNION OIL OF CALIFORNIA

ATTEST:

By: _____

ATTEST:

AMOCO PRODUCTION COMPANY

By: _____

ATTEST:

SHELL OIL COMPANY

By: _____

ATTEST:

TENNECO OIL COMPANY

By: _____

ATTEST:

WESTERN RESERVES, INC.

By: _____

ATTEST:

LARIO OIL & GAS COMPANY

By: _____

ATTEST:

DELTA DRILLING COMPANY

By: _____

ATTEST:

GULF OIL EXPLORATION & PRODUCTION COMPANY

By: _____

ATTEST:

ALLIED CHEMICAL CORPORATION

By: _____

ACKNOWLEDGEMENT

State of New Mexico)

County of Chaves)

ss

The foregoing instrument was acknowledged before me, a Notary Public,
on this 6th day of September, 1984, by _____
Norman L. Stevens, Jr., known to me to be the _____
Vice-President of READ & STEVENS, INC., a New Mexico corporation

WITNESS my hand and seal this 6th day of September,
1984.

My Commission Expires:

March 22, 1986



Notary Public

Dewayne Shaw

NOW, THEREFORE, in consideration of the premises hereinabove set forth and the promises hereafter stated, the First Party hereby covenants and agrees to fulfill the duties and assume the obligations of Unit Operator under and pursuant to the terms of the Catclaw Draw Unit Agreement, and the Second Parties covenant and agree that, effective upon approval of this indenture by the Director of the Bureau of Land Management, First Party shall be granted the exclusive right and privilege of exercising any and all rights and privileges as Unit Operator, pursuant to the terms and conditions of said Unit Agreement; said Unit Agreement being hereby incorporated herein by reference and made a part hereof as fully and effectively as though said Unit Agreement was expressly set forth in this instrument.

This agreement may be executed in any number of counterparts each of which shall be considered an original for all purposes.

IN WITNESS WHEREOF, the parties hereto have executed this instrument as of the date hereinabove set forth.

FIRST PARTY

EMCOR PETROLEUM, INC.

ATTEST:

By: _____

Frank E. Dinges, President

SECOND PARTIES

EM NOMINEE PARTNERSHIP COMPANY

WITNESS:

By: _____

Frank E. Dinges, Atty-in-Fact

ARCO EXPLORATION COMPANY

ATTEST:

By: _____

HOLLY ENERGY, INC.

ATTEST:

By: _____

READ & STEVENS, INC.

ATTEST:

By: _____

INEXCO OIL COMPANY

ATTEST:

Robert E. Gill, Jr.
Robert E. Gill, Jr., Asst. Secretary

By: _____

William G. Goodwin
William G. Goodwin, Vice President
UNION OIL OF CALIFORNIA

ATTEST:

By: _____

AMOCO PRODUCTION COMPANY

ATTEST:

By: _____

SHELL OIL COMPANY

ATTEST:

By: _____

TENNECO OIL COMPANY

ATTEST:

By: _____

WESTERN RESERVES, INC.

ATTEST:

By: _____

LARIO OIL & GAS COMPANY

ATTEST:

By: _____

DELTA DRILLING COMPANY

ATTEST:

By: _____

GULF OIL EXPLORATION & PRODUCTION COMPANY

ATTEST:

By: _____

ALLIED CHEMICAL CORPORATION

ATTEST:

By: _____

ACKNOWLEDGEMENT

State of Texas)

County of Harris)

ss

The foregoing instrument was acknowledged before me, a Notary Public,
on this 11 day of October, 1984, by _____
William G. Goodwin, known to me to be the _____
Vice President of Inexco Oil Company

WITNESS my hand and seal this 11 day of October,
1984.

My Commission Expires:

11-2-85

Diane C. Poppe
Notary Public

NOW, THEREFORE, in consideration of the premises hereinabove set forth and the promises hereafter stated, the First Party hereby covenants and agrees to fulfill the duties and assume the obligations of Unit Operator under and pursuant to the terms of the Catclaw Draw Unit Agreement, and the Second Parties covenant and agree that, effective upon approval of this indenture by the Director of the Bureau of Land Management, First Party shall be granted the exclusive right and privilege of exercising any and all rights and privileges as Unit Operator, pursuant to the terms and conditions of said Unit Agreement; said Unit Agreement being hereby incorporated herein by reference and made a part hereof as fully and effectively as though said Unit Agreement was expressly set forth in this instrument.

This agreement may be executed in any number of counterparts each of which shall be considered an original for all purposes.

IN WITNESS WHEREOF, the parties hereto have executed this instrument as of the date hereinabove set forth.

FIRST PARTY

EMCOR PETROLEUM, INC.

ATTEST:

By: _____

Frank E. Dinges, President

SECOND PARTIES

EM NOMINEE, PARTNERSHIP COMPANY

WITNESS:

By: _____

Frank E. Dinges, Atty-in-Fact

ARCO EXPLORATION COMPANY

ATTEST:

By: _____

HOLLY ENERGY, INC.

ATTEST:

By: _____

READ & STEVENS, INC.

ATTEST:

By: _____

INEXCO OIL COMPANY

ATTEST:

By: _____

UNION OIL COMPANY OF CALIFORNIA

ATTEST:

By: _____

John Hansen
Attorney-in-Fact

AMOCO PRODUCTION COMPANY

ATTEST:

By: _____

SHELL OIL COMPANY

ATTEST:

By: _____

TENNECO OIL COMPANY

ATTEST:

By: _____

WESTERN RESERVES, INC.

ATTEST:

By: _____

LARIO OIL & GAS COMPANY

ATTEST:

By: _____

DELTA DRILLING COMPANY

ATTEST:

By: _____

GULF OIL EXPLORATION & PRODUCTION COMPANY

ATTEST:

By: _____

ALLIED CHEMICAL CORPORATION

ATTEST:

By: _____

ACKNOWLEDGEMENT

State of TEXAS,)
County of MIDLAND.) ss

The foregoing instrument was acknowledged before me, a Notary Public,
on this 27th day of July, 1984, by JOHN HANSEN, known to me to be the
Attorney-in-Fact of UNION OIL COMPANY OF CALIFORNIA.

WITNESS my hand and seal this 27th day of July, 1984.

My Commission Expires:

11-30-84

Mavis Jones
Notary Public

MAVIS JONES
Notary Public
Midland Co. Texas

AMOCO PRODUCTION COMPANY

ATTEST:

By: _____

SHELL WESTERN E & P, INC.

ATTEST:

By: _____

R.L. GOODE, ATTORNEY-IN-FACT
TENNECO OIL COMPANY

ATTEST:

By: _____

WESTERN RESERVES, INC.

ATTEST:

By: _____

LARIO OIL & GAS COMPANY

ATTEST:

By: _____

DELTA DRILLING COMPANY

ATTEST:

By: _____

GULF OIL EXPLORATION & PRODUCTION COMPANY

ATTEST:

By: _____

ALLIED CHEMICAL CORPORATION

ATTEST:

By: _____

ACKNOWLEDGEMENT

State of Texas)
County of Harris) ss

The foregoing instrument was acknowledged before me, a Notary Public,
on this 31 day of May, 1984, by
R. L. GOODE, known to me to be the
ATTORNEY IN FACT of Shell Western E&P Inc.

WITNESS my hand and seal this 31 day of May,
1984.

My Commission Expires:

BETTE BRADFORD

Notary Public in and for Harris County, Texas
My Commission Expires June 4, 1984

Bette Bradford
Notary Public

AMOCO PRODUCTION COMPANY

ATTEST:

By: _____

SHELL OIL COMPANY

ATTEST:

By: _____

TENNECO OIL COMPANY

ATTEST:

By: _____

WESTERN RESERVES, INC.

ATTEST:

By: _____

LARIO OIL & GAS COMPANY

ATTEST:

Stanley H. Fox
Stanley H. Fox, Assistant Secretary

By: D. E. O'Shaughnessy
D. E. O'Shaughnessy, President

DELTA DRILLING COMPANY

ATTEST:

By: _____

GULF OIL EXPLORATION & PRODUCTION COMPANY

ATTEST:

By: _____

ALLIED CHEMICAL CORPORATION

ATTEST:

By: _____

ACKNOWLEDGEMENT

State of TEXAS)
County of MIDLAND) ss

The foregoing instrument was acknowledged before me, a Notary Public,
on this 24 day of May, 1984, by D. E. O'Shaughnessy
President of LARIO OIL & GAS COMPANY

WITNESS my hand and seal this 24 day of May, 1984.

My Commission Expires:
October 21, 1984

Gudy Pederson
Notary Public in and for the State of
Texas
Gudy Pederson

AMOCO PRODUCTION COMPANY

ATTEST:

By: _____

SHELL OIL COMPANY

ATTEST:

By: _____

TENNECO OIL COMPANY

ATTEST:

By: _____

WESTERN RESERVES, INC.

ATTEST:

By: _____

LARIO OIL & GAS COMPANY

ATTEST:

By: _____

DELTA DRILLING COMPANY

ATTEST:

By: _____

GULF OIL EXPLORATION & PRODUCTION COMPANY

ATTEST:

By: _____

ALLIED CORPORATION

ATTEST:

By: _____

G. J. Wilson, Jr.
Attorney-In-Fact

ACKNOWLEDGEMENT

State of Texas

County of Harris

ss

The foregoing instrument was acknowledged before me, a Notary Public,
on this 18th day of July, 1984, by G. J. Wilson, Jr.
in fact known to me to be the attorney-in-
fact of Allied Corporation

WITNESS my hand and seal this 18th day of July, 1984.

My Commission Expires:

August 22, 1985

E. Blanca Munton
Notary Public

In subsequent Plans of Development, please provide statistical data and/or decline curves on production.

Sincerely yours,

~~A. L. Hargrett~~

Acting District Manager

cc: Commissioner of Public Lands, Santa Fe

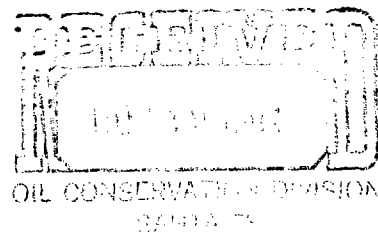
✓ NMOCD, Santa Fe

NMSO, Micrographics (943B)

CRA

POD File

4476



14-08-0001-11588

November 15, 1984

Tenneco Oil Exploration and Production
6800 Park Ten Blvd. - Suite 200 North
San Antonio, TX 78213

Re: 1984 Plan of Development -
Catclaw Draw Unit, Taos
County, New Mexico

Gentlemen:

According to our records the last Plan of Development submitted to us for the Catclaw Draw Unit was for the year 1981.

Section 10 of the Unit Agreement states that:

"...Thereafter, from time to time before the expiration of any existing plan, the Unit Operator shall submit for the approval of the AO a plan for an additional specified period of development and operation of the unitized land. Subsequent plans should normally be filed on a calendar year basis not later than March 1 each year.

...This plan shall be as complete and adequate as the AO may determine to be necessary for timely development and proper conservation of the oil and gas resources in the unitized area and shall:

(a) specify the number and locations of any wells to be drilled and the proposed order and time for such drilling; and

(b) provide a summary of operations and production for the previous year."

We therefore request a 1985 Plan of Development for the Catclaw Draw Unit together with a Summary of Operations and Production for the years 1982 through 1984.

RECEIVED

MAR-9 1972

ON COM.

March 9, 1972

4476

Hanagan Petroleum Corporation
J. F. White Building
P. O. Box 1737
Roswell, New Mexico 88201

Re: Catclaw Draw Unit
APPLICATION FOR APPROVAL
OF INITIAL PARTICIPATING AREA
FOR THE MORROW FORMATION,
Eddy County, New Mexico

ATTENTION: Mr. Hugh E. Hanagan

Gentlemen:

The Commissioner of Public Lands has this date approved your application for the Initial Participating Area for the Morrow Formation, which includes all of Section 26, Township 21 South, Range 25 East, Eddy County, New Mexico. This approval is subject to like approval by the United States Geological Survey.

Enclosed is one approved copy of the application.

Please remit a three (\$3.00) Dollar filing fee.

Very truly yours,

RAY D. GRAHAM, Director
Oil and Gas Department

AJA/RDG/s

encls.

cc:

USGS-Roswell, New Mexico

OCC- Santa Fe, New Mexico —

March 2, 1975

March 2, 1975

Hanagau Petroleum Corporation
P. O. Box 1737
Roswell, New Mexico 88201

Re: Caddis Creek Unit
APPLICATION FOR APPROVAL
OF INITIAL PARTICIPATING AREA
FOR THE MORROW FORMATION,
Eddy County, New Mexico

ATTENTION: Mr. Hugh E. Hanagau

Gentlemen:

The Commissioner of Public Lands has this date approved
your application for the initial participating area for the
Morrow Formation, which includes all of Section 16, Township
31 South, Range 25 East, Eddy County, New Mexico. This
approval is subject to like approval by the United States
Geological Survey.

Enclosed is one approved copy of the application.

Please remit a three (\$3.00) dollar filing fee.

Very truly yours,

RAY D. GRAHAM, Director
Oil and Gas Department

ALA/RD/s
encls.

USGS-Roswell, New Mexico
OCC-Santa Fe, New Mexico

May 24, 1971

4476

Mr. Robert G. Managan
Managan Petroleum Corporation
P. O. Box 1737
Roswell, New Mexico 88201

Re: CatClaw Draw Unit
State of New Mexico Oil & Gas
Leases- K-3268-1, K-4192, K-4902,
K-4991-1, K-5721, L-1898, L-2672,
L-4707, L-5035

Dear Mr. Managan:

In accordance with paragraph 9, entitled "Drilling to Discovery", of the CatClaw Unit Agreement, the Land Commissioner has examined the well test data on the initial well. The Land Commissioner finds that the initial well can be produced in quantities sufficient to repay the costs of drilling, completing and producing operations with a reasonable profit.

Under this finding, the Land Commissioner is satisfied that the initial well will continue the CatClaw Draw Unit in full force and effect.

If we can be of any further assistance, please advise.

Sincerely yours,

ALEX J. ARMijo
Commissioner of Public Lands

AJA/GCM/s

cc:

USGS-Roswell, New Mexico
OCC- Santa Fe, New Mexico

20 JUN 1 1971

100-443887-1

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It is further suggested that the proposed new arrangement of
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 6. For: 10:10
 7. Remarks: 10:10
 8. Signature: 10:10
 9. Initials: 10:10
 10. Stamp: 10:10
 11. Notes: 10:10
 12. Comments: 10:10
 13. Other: 10:10
 14. Final: 10:10
 15. End: 10:10

Page 10 of 10

SECRET

PLEASE PRINT NAME AND ADDRESS OF PERSON TO WHOM ORDER IS TO BE PAID TO

CONFIDENTIAL - SECURITY INFORMATION

State of New Mexico



Commissioner of Public Lands

ALEX J. ARMIJO
COMMISSIONER

August 20, 1971

P. O. Box 1148
SANTA FE, NEW MEXICO

4476

Hanagan Petroleum Corporation
S. F. White Building
P. O. Box 1737
Roswell, New Mexico 88201

Re: Catclaw Draw Unit
Plan of Development
Eddy County, New Mexico

ATTENTION: Mr. Robert G. Hanagan

Gentlemen:

The Commissioner of Public Lands has this date approved your Plan of Development for the Catclaw Draw Unit, Eddy County, New Mexico. This plan covers the period from September 1, 1971 and ending February 29, 1972. This approval is subject to like approval by the United States Geological Survey.

Your plan calls for the drilling of a well on the SW/4NE/4 of Section 23, Township 24 South, Range 25 East.

Enclosed are five executed copies as per your request.

Please submit six (\$6.00) dollars for the filing fee.

Very truly yours,

RAY D. GRAHAM, Director
Oil and Gas

AJA/RDG/s

encls. 5

cc:

USGS-Roswell, New Mexico

OCC- Santa Fe, New Mexico ✓

2015-11-11 14:30:00

03/11/2015



Commissioner of Public Works

DATE: 03/11/2015
TIME: 14:30:00

03/11/2015 14:30:00

Subject: [Illegible text]

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[Illegible text]



UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Drawer 1857
Roswell, New Mexico 88201

IN REPLY REFER TO:

RECEIVED
JAN 1 1971
JAN 21 1971
January 28, 1971

Hanegen Petroleum Corporation
P. O. Box 1737
Roswell, New Mexico 88201

Attention: Mr. Robert C. Hanegen

Gentlemen:

The Catclaw Draw unit agreement, Eddy County, New Mexico, was approved on January 28, 1971. This agreement has been designated No. 14-08-0001-11588 and is effective as of the date of approval.

Enclosed are four approved copies of the unit agreement for your records. We request that you furnish the State of New Mexico and other interested principals with appropriate evidence of this approval.

Sincerely yours,

(ORIG. SGD.) N. O. FREDERICK

N. O. FREDERICK
Regional Oil and Gas Supervisor

cc:

Washington (w/cy appd. agreement)
RIM, Santa Fe (w/cy appd. agreement)
Artesia (w/cy appd. agreement)
BOHC, Roswell (ltr. only)
NMOCG, Santa Fe (ltr. only) ✓
Land Commissioner, Santa Fe (ltr. only)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY



100-100000

100-100000

100-100000

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71 JAN 27 11 08 19

January 26, 1971

Hanagan Petroleum Corporation
P. O. Box 1737
Roswell, New Mexico 88201

Re: Catclaw Draw Unit
Eddy County, New Mexico

ATTENTION: Mr. Robert G. Hanagan

Gentlemen:

The Commissioner of Public Lands has this date approved your Catclaw Draw Unit, Eddy County, New Mexico, subject to like approval by the United States Geological Survey.

Enclosed are five (5) Certificates of Approval.

This Unit Agreement becomes effective upon approval by the United States Geological Survey, therefore, please furnish us a copy of their Certificate of Determination so that we may finish processing this unit.

Sincerely yours,

GORDON G. MARCUM, II, Director
Oil and Gas Department

AJA/GCM/s
encls.

cc: USGS-Roswell, New Mexico
OCC- Santa Fe, New Mexico✓

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RECEIVED

FEB 29 1972

**CONSERVATION COMMISSION
SANTA FE**

February 28, 1972

4476

**Hanagan Petroleum Corporation
J. F. White Building
P. O. Box 1737
Roswell, New Mexico 88201**

**Re: Catclaw Draw Unit
Plan of Development
Eddy County, New Mexico**

ATTENTION: Mr. Robert G. Hanagan

Gentlemen:

The Commissioner of Public Lands has this date approved your Plan of Development for the Catclaw Draw Unit, Eddy County, New Mexico. This plan proposed the drilling of no additional wells from March 1, 1972 to August 31, 1972. This approval is subject to like approval by the United States Geological Survey.

Enclosed are five approved copies as per your request. Your Six (\$6.00) dollar filing fee has been received.

Please submit one approved copy to this office when the U. S. G. S. has approved same.

Very truly yours,

**RAY D. GRAHAM, Director
Oil and Gas Department**

**AJA/RDG/s
encls.**

**cc: USGS-Roswell, New Mexico
OCC- Santa Fe, New Mexico**

1972 FEB 23 10 11 AM
U.S. DEPT. OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

February 23, 1972

Hanagan Petroleum Corporation
7. F. White Building
P. O. Box 1737
Roswell, New Mexico 88201

Re: Catalaw Draw Unit
Plan of Development
Hddy County, New Mexico

ATTENTION: Mr. Robert G. Hanagan

Gentlemen:

The Commissioner of Public Lands has this date approved your Plan of Development for the Catalaw Draw Unit, Hddy County, New Mexico. This plan proposed the drilling of no additional wells from March 1, 1972 to August 31, 1972. This approval is subject to like approval by the United States Geological Survey.

Enclosed are five approved copies as per your request. Your six (\$6.00) dollar filing fee has been received. Please submit one approved copy to this office when the U. S. G. S. has approved same.

Very truly yours,

RAY D. GRAHAM, Director
Oil and Gas Department

000- Santa Fe, New Mexico
0202-Roswell, New Mexico

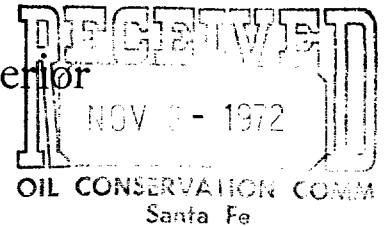
ALA/RDD/s
encls.
cc:



United States Department of the Interior

GEOLOGICAL SURVEY

Drawer 1857
Roswell, New Mexico 88201



November 3, 1972

Managan Petroleum Corporation
P. O. Box 1737
Roswell, New Mexico 88201

4476

Attention: Mr. Robert G. Managan

Gentlemen:

The second revision of the Morrow participating area for the Catclaw Draw unit agreement, Eddy County, New Mexico, No. 14-08-0001-11568, was approved on November 3, 1972, by the Acting Area Oil and Gas Supervisor, U. S. Geological Survey, effective as of August 1, 1972. By such revision, the Morrow participating area is enlarged to 4,480 acres.

The second revision adds 2,880 acres, described as the S $\frac{1}{4}$ of sec. 13 and all of secs. 24, 25, 35, and 36, T. 21 S., R. 25 E., N.M.P.M., and is based on the information contributed by unit well No. 3 located in the NW $\frac{1}{4}$ of sec. 36, T. 21 S., R. 25 E., N.M.P.M., and your unit well (No. 1 New-Bet) located in the NW $\frac{1}{4}$ of sec. 19, T. 21 S., R. 26 E., N.M.P.M. Unit well No. 3 was completed on August 7, 1972, for a calculated absolute open flow potential of 5,000 MCFGPD from the Morrow formation in the interval from 10,811 feet to 10,825 feet. Well No. 1 New-Bet was completed on June 1, 1972, for a calculated absolute open flow potential of 84,000 MCF of gas per day from the Morrow formation in the interval from 10,648 feet to 10,664 feet.

Copies of the approved application are being distributed to the appropriate Federal offices and five approved copies are returned herewith. You are requested to furnish the State of New Mexico and all other interested parties with appropriate evidence of this approval.

Sincerely yours,

(Sgd.) CARL C. TRAYWICK

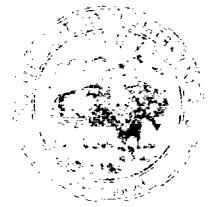
cc:

Washington (w/cy application)
Artesia (w/cy application)
FLM, Santa Fe (ltr. only)
HDOCC, Santa Fe (ltr. only)
Com. of Pub. Lands, Santa Fe (ltr. only)

CARL C. TRAYWICK
Acting Area Oil and Gas Supervisor

REShook:cn

United States Department of the Interior



Geological Survey

Washington, D.C.

June 11, 1908

Mr. J. H. ...

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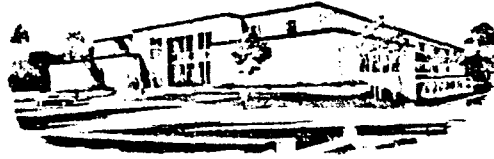
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State of New Mexico



Commissioner of Public Lands

ALEX J. ARMIJO
COMMISSIONER

September 8, 1982

P. O. BOX 1148
SANTA FE, NEW MEXICO 87501
87504-1148

Tenneco Oil Company
6800 Park Ten Blvd, Suite 200 North
San Antonio, Texas 78213

Re: 1982 Plan of Development
Catclaw Draw Unit
Eddy County, New Mexico

4476

ATTENTION: Mr. Douglass C. Keen

Gentlemen:

The Commissioner of Public Lands has this date approved your 1982 Plan of Development for the Catclaw Draw Unit, Eddy County, New Mexico. Such plan proposes to evaluate the results of your latest drilling program and if warranted, a second well on Section 35 may be drilled in 1983. Our approval is subject to like approval by the New Mexico Oil Conservation Division and the United States Minerals Management Service.

Enclosed is an approved copy for your files.

Please remit a Three (\$3.00) Dollar filing fee.

Very truly yours,

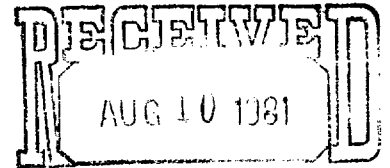
ALEX J. ARMIJO
COMMISSIONER OF PUBLIC LANDS

BY:
FLOYD O. PRANDO, Assistant Director
Oil and Gas Division
AC 505/827-2748

AJA/FOP/pm
encls.
cc:

OCD-Santa Fe, New Mexico
USMMS-Albuquerque, New Mexico
Administration

South Central Region
P. O. Box 26124
Albuquerque, New Mexico 87125



OIL CONSERVATION DIVISION
SANTA FE

AUG 5 1981

Tenneco Oil Exploration & Production
Attention: Douglass C. Keen
6800 Park Ten Blvd. - Suite 200 N.
San Antonio, Texas 78213

44 76

Gentlemen:

One approved copy of your 1981 plan of development for the Catclaw Draw unit area, Eddy County, New Mexico is enclosed. Such plan, proposing to evaluate the results of the 1980 drilling program, was approved on this date subject to like approval by the appropriate officials of the State of New Mexico.

Sincerely yours,

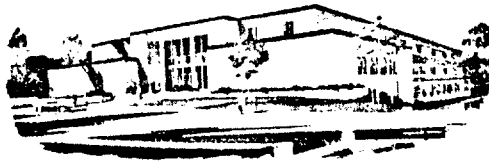
(ORIG. SGD.) JAMES W. SHELTON

FOR Gene F. Daniel
Deputy Conservation Manager
Oil and Gas

Enclosure

cc:
NMOCD, Santa Fe
Comm of Pub Lands, Santa Fe
DS, Roswell (w/encl)

State of New Mexico



Commissioner of Public Lands

July 7, 1981

ALEX J. ARMIJO
COMMISSIONER

P. O. BOX 1148
SANTA FE, NEW MEXICO 87501

44 76

Tenneco Oil Exploration and Production Co.
6800 Park Ten Blvd- Suite 200 North
San Antonio, Texas 78213

Re: Plan of Development
Catclaw Draw Unit
Eddy County, New Mexico

ATTENTION: Mr. Douglass C. Keen

Gentlemen:

The Commissioner of Public Lands has this date approved the Plan of Development for the year 1981 for the Catclaw Draw Unit, Eddy County, New Mexico. Such plan was submitted June 24, 1981. Our approval is subject to like approval by the United States Geological Survey and the New Mexico Oil Conservation Division.

Enclosed is one approved copy of the plan for your files.

Please remit a Three (\$3.00) Dollar filing fee.

Very truly yours,

ALEX J. ARMIJO
COMMISSIONER OF PUBLIC LANDS

BY:
RAY D. GRAHAM, Director
Oil and Gas Division
AC 505-827-2748

AJA/RDG/s
encls.
cc:

OCD-Santa Fe, New Mexico ✓
USGS-Roswell, New Mexico
USGS-Albuquerque, New Mexico

Tenneco Oil Exploration and Production

A Tenneco Company



Southwestern Division

6800 Park Ten Blvd. • Suite 200 North
San Antonio, Texas 78213
(512) 734-8161

June 24, 1981

Commissioner of Public Lands
State of New Mexico
State Land Office
Santa Fe, New Mexico

Re: Plan of Development
Catclaw Draw Unit
Eddy County, New Mexico

Dear Sir:

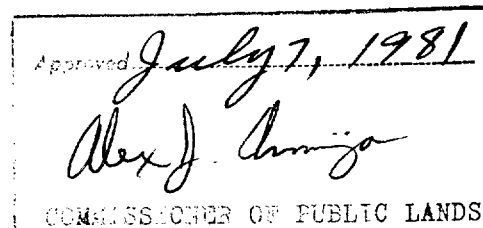
The Catclaw Draw Unit was formed December 17, 1970. The original operator was Hanagan Petroleum. Tenneco Oil Exploration and Production acquired Hanagan Petroleum's interest in the unit and has acted as operator since October 1, 1979. The Catclaw Draw Unit produced 2.19 BCFG in 1980 with cumulative production of 40.26 BCFG as of January 1, 1981, from the Morrow Formation.

In January 1980, Order No. R-4157-C of case No. 6751 amended the existing Field rules of 640 acre well spacing and proration units to establish 320 acre units. In 1980, Tenneco drilled four wells in the Catclaw Draw unit. This completed development of all 320 acre proration units except the east half of section 35, T-21-S, R-25-E. This 320 acre unit will be drilled in 1982 after results of the 1980 program have been evaluated.

Tenneco Oil requests the approval of the State Land Office for the plan of development of Catclaw Draw Unit.

Douglass C. Keen
Douglass C. Keen
Tenneco Oil
Division Geological Engineer

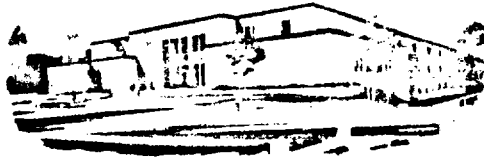
DCK/MGC/mcm



State of New Mexico



ALEX J. ARMIJO
COMMISSIONER



Commissioner of Public Lands
April 9, 1980

P. O. BOX 1148
SANTA FE, NEW MEXICO 87501

Tenneco Oil Exploration and Production
P. O. Box 2511
Houston, Texas 77001

4476

Re: Catclaw Draw Unit
Eddy County, New Mexico
RESIGNATION & DESIGNATION OF
UNIT OPERATOR

ATTENTION: Mr. Greg Simmons

Gentlemen:

The Commissioner of Public Lands has this date approved the resignation of Hanagan Petroleum Corporation as unit operator of the Catclaw Draw Unit, Eddy County, New Mexico. The selection of Tenneco Oil Company as successor unit operator has also been approved effective as of March 21, 1980. The USGS gave their approval on March 21, 1980.

Enclosed are two sets of the instruments surplus to our need.

Very truly yours,

ALEX J. ARMIJO
COMMISSIONER OF PUBLIC LANDS

BY:
RAY D. GRAHAM, Director
Oil and Gas Division
AC 505-827-2748

AJA/RDG/s
encls.
cc:

OCD-Santa Fe, New Mexico
USGS-Roswell, New Mexico
USGS-Albuquerque, New Mexico



United States Department of the Interior

GEOLOGICAL SURVEY

P. O. Box 26124

Albuquerque, New Mexico 87125

APR 01 1980

4476

Tenneco Oil Company
Attention: D. C. Keen
6800 Park Ten Blvd., Suite 200 North
San Antonio, Texas 78213

Gentlemen:

Two approved copies of your 1980 plan of development for the Catclaw Draw unit area, Eddy County, New Mexico, are enclosed. Such plan, proposing to drill four wells, was approved on this date subject to like approval by the appropriate officials of the State of New Mexico.

Sincerely yours,

(ORIG. SGD.) JACK WILLOCK

FOR Gene F. Daniel
Acting Deputy Conservation Manager
Oil and Gas

Enclosures 2

cc:

NMOCD, Santa Fe

Comm. Public Lands, Santa Fe



ONE HUNDRED YEARS OF EARTH SCIENCE IN THE PUBLIC SERVICE

UNITED STATES GOVERNMENT

OFFICE OF THE
DIRECTOR
BUREAU OF INDIAN AFFAIRS
WASHINGTON, D. C.



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BUREAU OF INDIAN AFFAIRS
WASHINGTON, D. C.

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WASHINGTON, D. C.

(ORIGINAL FILED)

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BUREAU OF INDIAN AFFAIRS
WASHINGTON, D. C.

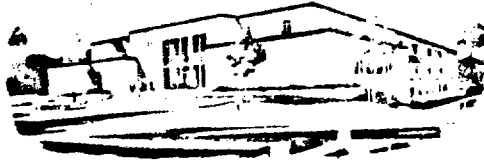
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RECEIVED
BUREAU OF INDIAN AFFAIRS
WASHINGTON, D. C.

UNITED STATES GOVERNMENT



State of New Mexico



Commissioner of Public Lands

April 9, 1980

ALEX J. ARMIJO
COMMISSIONER

P. O. BOX 1148
SANTA FE, NEW MEXICO 87501

Tenneco Oil Exploration and Production
P. O. Box 2511
Houston, Texas 77001

4476

Re: Plan of Development
Catclaw Draw Unit
Eddy County, New Mexico

ATTENTION: Mr. D. C. Keen

Gentlemen:

The Commissioner of Public Lands has this date approved your 1980 Plan of Development for the Catclaw Draw Unit, Eddy County, New Mexico. Such plan proposes the drilling of four wells. The USGS gave their approval April 1, 1980.

Enclosed is one approved copy for your files.

Please remit a Three (\$3.00) Dollar filing fee.

Very truly yours,

ALEX J. ARMIJO
COMMISSIONER OF PUBLIC LANDS

BY:
RAY D. GRAHAM, Director
Oil and Gas Division
AC 505-827-2748

AJA/RDG/s
encls.
cc:

OCD-Santa Fe, New Mexico
USGS-Roswell, New Mexico
USGS-Albuquerque, New Mexico



United States Department of the Interior

GEOLOGICAL SURVEY
Conservation Division
P. O. Box 26124
Albuquerque, New Mexico 87125

MAR 21 1980

Tenneco Oil Exploration and Production
Attention: Greg Simmons
P. O. Box 2511
Houston, Texas 77001

OIL CONSERVATION DIVISION
SANTA FE

cc 76

Gentlemen:

The original and three copies of an instrument dated October 1, 1979, by which Hanagan Petroleum Corporation resigns as unit operator and Tenneco Oil Company is designated as successor unit operator for the Catclaw Draw unit agreement, Eddy County, New Mexico, No. 14-08-0001-11588, were filed with this office on March 14, 1980. The instrument is executed by Hanagan Petroleum Corporation as the present unit operator and working interest owner, more than 75 percent of the working interest owners pursuant to Section 6 of the unit agreement and by Tenneco Oil Company as successor operator.

The selection of Tenneco Oil Company as successor unit operator has been approved effective as of the date approved subject to like approval by the appropriate State officials. Copies of the approved instrument are being distributed to the appropriate Federal offices and one approved copy is returned herewith.

Sincerely yours,

Gene F. Daniel
Deputy Acting Conservation
Manager, Oil and Gas

Enclosure

cc:
NMOC, Santa Fe



United States Department of the Interior

GEOLOGICAL SURVEY

P. O. Box 26124
Albuquerque, New Mexico 87125

JAN 19 1978

Hanagan Petroleum Corporation
Attention: Mr. Samuel G. Hill
P. O. Box 1737
Roswell, New Mexico 88201

No. 4476

Gentlemen:

Five approved copies of your 1978 plan of development for the Catclaw Draw unit area, Eddy County, New Mexico, proposing the drilling of no additional wells, are enclosed. Such plan was approved on this date subject to like approval by the appropriate officials of the State of New Mexico.

Sincerely yours,

(ORIG. SGD.) JAMES W. SUTHERLAND

AREA OIL AND GAS SUPERVISOR, SRMA

Enclosures

CC:
NMOCC, Santa Fe (1tr. only) ← This Copy for
Com. Pub. Lands, Santa Fe (1tr. only)

United States Department of the Interior

Geological Survey

Washington, D.C. 20508



March 1978

Report of Progress
for the year 1977
of the
Geological Survey

Volume 1

The Geological Survey has been authorized by the Department of the Interior to conduct a study of the geology of the State of Texas. The study is being conducted in cooperation with the Texas Department of Transportation. The study is being conducted in order to determine the geology of the State of Texas and to determine the geology of the State of Texas. The study is being conducted in order to determine the geology of the State of Texas and to determine the geology of the State of Texas.

Geological Survey

Geological Survey

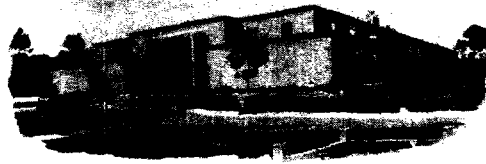
Geological Survey

Geological Survey

Geological Survey
10000 Santa Fe (for only)
10000 Santa Fe (for only)



State of New Mexico



Commissioner of Public Lands

PHIL R. LUCERO
COMMISSIONER

December 27, 1977

RECEIVED
JAN 3 - 1978
Oil Conservation Commission

P. O. BOX 1148
SANTA FE, NEW MEXICO 87501

Hanagan Petroleum Corporation
J. P. White Building
P. O. Box 1737
Roswell, New Mexico 88201

No. 4476

Re: Plan of Development for the
Catalaw Draw Unit
Eddy County, New Mexico

ATTENTION: Mr. Robert G. Hanagan

Gentlemen:

The Commissioner of Public Lands has this date approved your Plan of Development for the Catalaw Draw Unit, Eddy County, New Mexico. This plan covers the period from January 1, 1978 to December 31, 1978. Your plan calls for the drilling of no wells during this period since all lands within the Unit Area are fully developed.

Our approval is subject to like approval by the United States Geological Survey.

Enclosed are eight (8) executed copies as requested in your letter. When you receive fully executed copies back from the U.S.G.S., please furnish us with one copy.

Your Nine (\$9.00) Dollar filing fee has been received.

Very truly yours,

PHIL R. LUCERO
COMMISSIONER OF PUBLIC LANDS

BY:
RAY D. GRAHAM, Director
Oil and Gas Division

PHL/RDG/s
encls.
cc:

OCC-Santa Fe, New Mexico
USGS-Roswell, New Mexico
USGS-Albuquerque, New Mexico

RECEIVED
JAN 3 - 1978
Oil Conservation Commission



ON CONGRESSIONAL COMMISSION

2. SANTA FE, NEW MEXICO 87501
P. O. BOX 1146

PHIL R. LUCERO
COMMISSIONER

102nd Avenue Road, Toronto

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10-10-68

1. The purpose of this study is to determine the impact of the development of the oil and gas industry on the economy of the State of Texas. The study will cover the period from January 1, 1978 to December 31, 1978. The study will be conducted in the following manner:

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[Faint handwritten notes at the bottom of the page]

SECRET

101-102-103-104-105-106-107-108-109-110-111-112-113-114-115-116-117-118-119-120-121-122-123-124-125-126-127-128-129-130-131-132-133-134-135-136-137-138-139-140-141-142-143-144-145-146-147-148-149-150-151-152-153-154-155-156-157-158-159-160-161-162-163-164-165-166-167-168-169-170-171-172-173-174-175-176-177-178-179-180-181-182-183-184-185-186-187-188-189-190-191-192-193-194-195-196-197-198-199-200-201-202-203-204-205-206-207-208-209-210-211-212-213-214-215-216-217-218-219-220-221-222-223-224-225-226-227-228-229-230-231-232-233-234-235-236-237-238-239-240-241-242-243-244-245-246-247-248-249-250-251-252-253-254-255-256-257-258-259-260-261-262-263-264-265-266-267-268-269-270-271-272-273-274-275-276-277-278-279-280-281-282-283-284-285-286-287-288-289-290-291-292-293-294-295-296-297-298-299-300-301-302-303-304-305-306-307-308-309-310-311-312-313-314-315-316-317-318-319-320-321-322-323-324-325-326-327-328-329-330-331-332-333-334-335-336-337-338-339-340-341-342-343-344-345-346-347-348-349-350-351-352-353-354-355-356-357-358-359-360-361-362-363-364-365-366-367-368-369-370-371-372-373-374-375-376-377-378-379-380-381-382-383-384-385-386-387-388-389-390-391-392-393-394-395-396-397-398-399-400-401-402-403-404-405-406-407-408-409-410-411-412-413-414-415-416-417-418-419-420-421-422-423-424-425-426-427-428-429-430-431-432-433-434-435-436-437-438-439-440-441-442-443-444-445-446-447-448-449-450-451-452-453-454-455-456-457-458-459-460-461-462-463-464-465-466-467-468-469-470-471-472-473-474-475-476-477-478-479-480-481-482-483-484-485-486-487-488-489-490-491-492-493-494-495-496-497-498-499-500-501-502-503-504-505-506-507-508-509-510-511-512-513-514-515-516-517-518-519-520-521-522-523-524-525-526-527-528-529-530-531-532-533-534-535-536-537-538-539-540-541-542-543-544-545-546-547-548-549-550-551-552-553-554-555-556-557-558-559-560-561-562-563-564-565-566-567-568-569-570-571-572-573-574-575-576-577-578-579-580-581-582-583-584-585-586-587-588-589-590-591-592-593-594-595-596-597-598-599-600-601-602-603-604-605-606-607-608-609-610-611-612-613-614-615-616-617-618-619-620-621-622-623-624-625-626-627-628-629-630-631-632-633-634-635-636-637-638-639-640-641-642-643-644-645-646-647-648-649-650-651-652-653-654-655-656-657-658-659-660-661-662-663-664-665-666-667-668-669-670-671-672-673-674-675-676-677-678-679-680-681-682-683-684-685-686-687-688-689-690-691-692-693-694-695-696-697-698-699-700-701-702-703-704-705-706-707-708-709-710-711-712-713-714-715-716-717-718-719-720-721-722-723-724-725-726-727-728-729-730-731-732-733-734-735-736-737-738-739-740-741-742-743-744-745-746-747-748-749-750-751-752-753-754-755-756-757-758-759-760-761-762-763-764-765-766-767-768-769-770-771-772-773-774-775-776-777-778-779-780-781-782-783-784-785-786-787-788-789-790-791-792-793-794-795-796-797-798-799-800-801-802-803-804-805-806-807-808-809-810-811-812-813-814-815-816-817-818-819-820-821-822-823-824-825-826-827-828-829-830-831-832-833-834-835-836-837-838-839-840-841-842-843-844-845-846-847-848-849-850-851-852-853-854-855-856-857-858-859-860-861-862-863-864-865-866-867-868-869-870-871-872-873-874-875-876-877-878-879-880-881-882-883-884-885-886-887-888-889-890-891-892-893-894-895-896-897-898-899-900-901-902-903-904-905-906-907-908-909-910-911-912-913-914-915-916-917-918-919-920-921-922-923-924-925-926-927-928-929-930-931-932-933-934-935-936-937-938-939-940-941-942-943-944-945-946-947-948-949-950-951-952-953-954-955-956-957-958-959-960-961-962-963-964-965-966-967-968-969-970-971-972-973-974-975-976-977-978-979-980-981-982-983-984-985-986-987-988-989-990-991-992-993-994-995-996-997-998-999-1000-1001-1002-1003-1004-1005-1006-1007-1008-1009-1010-1011-1012-1013-1014-1015-1016-1017-1018-1019-1020-1021-1022-1023-1024-1025-1026-1027-1028-1029-1030-1031-1032-1033-1034-1035-1036-1037-1038-1039-1040-1041-1042-1043-1044-1045-1046-1047-1048-1049-1050-1051-1052-1053-1054-1055-1056-1057-1058-1059-1060-1061-1062-1063-1064-1065-1066-1067-1068-1069-1070-1071-1072-1073-1074-1075-1076-1077-1078-1079-1080-1081-1082-1083-1084-1085-1086-1087-1088-1089-1090-1091-1092-1093-1094-1095-1096-1097-1098-109

Oil Conservation Commission

[illegible]



4476
United States Department of the Interior

GEOLOGICAL SURVEY

Conservation Division
Mustang Bank Building
626 Marquette, N.M., Room 815
Albuquerque, New Mexico 87102

FEB 15 1977

Hanagan Petroleum Corporation
Attention: Mr. Robert E. Hanagan
P. O. Box 1737
Roswell, New Mexico 88201


Gentlemen:

Our records show that the initial Morrow participating area for the Catclaw Draw unit agreement, Eddy County, New Mexico, was established effective as of May 11, 1971. The automatic elimination provision in Section 2(e) of the unit agreement became effective on May 11, 1976, since there were no drilling operations in progress on unitized land outside the participating area on that date. Such provision provides that the unit operator will submit to the Supervisor, within 90 days after the effective date of any elimination, a description of the lands so eliminated with appropriate revised exhibits A and B and notify all parties in interest. We have not received this information to date. You are requested, therefore, to file the appropriate information with the Roswell office in compliance with Section 2(e) of the unit agreement.

Sincerely yours,

(ORIG. SGD.) JAMES W. SUTHERLAND

Area Oil and Gas Supervisor

cc:
Cop. Pub. Lands, Santa Fe
NMOCC, Santa Fe  This Copy for.



United States Department of the Interior
GEOLOGICAL SURVEY

Conservation Division
Western Bank Building
505 Marquette, N.M., Room 812
Albuquerque, New Mexico 87102

Hanagan Petroleum Corporation
Attention: Mr. Robert G. Hanagan
P. O. Box 1737
Roswell, New Mexico 88201

Gentlemen:

Our records show that the initial narrow participating area for the Gaslaw Draw unit agreement, Eddy County, New Mexico, was established effective as of May 11, 1971. The automatic elimination provision in Section 2(e) of the unit agreement became effective on May 11, 1976, since there were no drilling operations in progress on unitized land outside the participating area on that date. Such provision provides that the unit operator will submit to the Supervisor, within 90 days after the effective date of any elimination, a description of the lands so eliminated with appropriate revised exhibits A and B and notify all parties in interest. We have not received this information to date. You are requested, therefore, to file the appropriate information with the Roswell office in compliance with Section 2(e) of the unit agreement.

Sincerely yours,

Area Office and Gas Supervisor

cc: NMCC, Santa Fe
Oil, Pub. Lands, Santa Fe



United States Department of the Interior

GEOLOGICAL SURVEY
Conservation Division
Western Bank Building
305 Marquette, NW, Room 815
Albuquerque, New Mexico 87102

FEB 01 1977

Managon Petroleum Corporation
Attention: Mr. Samuel G. Hill
P. O. Box 1737
Roswell, New Mexico 88201

Gentlemen:

Five approved copies of your 1977 plan of development for the Catalaw Draw unit area, Eddy County, New Mexico, proposing the drilling of no additional wells, are enclosed. Such plan was approved on this date subject to like approval by the appropriate officials of the State of New Mexico.

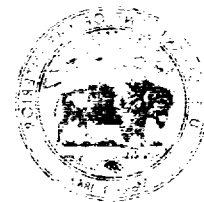
Sincerely yours,

(ORIG. SGD.) JAMES W. SUTHERLAND

Area Oil and Gas Supervisor

Enclosure

cc:
NMOCC, Santa Fe (ltr. only)
Com. Pub. Lands, Santa Fe (ltr. only)



United States Department of the Interior

GEOLOGICAL SURVEY
Conservation Division
Western Bank Building
505 Wardman, NW, Room 815
Washington, New Mexico 87102

FEB 01 1977

Hanigan Petroleum Corporation
Attention: Mr. Samuel C. Hill
P. O. Box 1737
Roswell, New Mexico 88201

Gentlemen:

Five approved copies of your 1977 plan of development for the (Name)
Draw unit area, Eddy County, New Mexico, proposing the drilling of
no additional wells, are enclosed. Such plan was approved on this
date subject to like approval by the appropriate officials of the
State of New Mexico.

Sincerely yours,

(Signature)

Area Oil and Gas Supervisor

Enclosure

cc:
MDOC, Santa Fe (ltr. only)
Com. Pub. Lands, Santa Fe (ltr. only)

4476

Drawer 1857
Roswell, New Mexico 88201

March 3, 1976

Hanagan Petroleum Corporation
Attention: Mr. John P. Carnes
P.O. Box 1737
Roswell, New Mexico 88201

Gentlemen:

Five approved copies of your 1976 plan of development for the Catclaw Draw unit area, Eddy County, New Mexico, proposing the drilling of no additional wells, are enclosed. Such plan was approved on this date subject to like approval by the appropriate officials of the State of New Mexico.

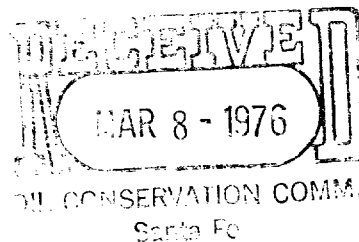
Sincerely yours,

(ORIG. SGN) CARL C. TRAYWICK

CARL C. TRAYWICK
Acting Area Oil and Gas Supervisor

cc:
Artesia (w/cy plan)
NMOCC, Santa Fe (ltr. only) ← This Copy for
Com. Pub. Lands, Santa Fe (ltr. only)

JAGillham:dap



4476

State of New Mexico

TELEPHONE
505-827-2748



Commissioner of Public Lands

December 16, 1975

PHIL R. LUCERO
COMMISSIONER

P. O. BOX 1148
SANTA FE, NEW MEXICO 87501

Hanagan Petroleum Corporation
J. P. White Building
P. O. Box 1737
Roswell, New Mexico

Re: Catclaw Draw Unit
Eddy County, New Mexico

ATTENTION: Mr. John P. Carnes

Gentlemen:

The Commissioner of Public Lands has this date approved your Amended Plan of Development covering the period from January 1, 1975 through December 31, 1975, whereby well No. 11 was drilled during this time. The Commissioner also approves the plan from January 1, 1976 through December 31, 1976, whereby no additional wells will be drilled upon the Catclaw Draw Unit Area.

Enclosed are Seven (7) approved copies as requested in your letter.

Your letter of December 15, 1975, states you were enclosing \$9.00 to cover the filing fee, however, the \$9.00 dollars were not enclosed. Please remit an eight (\$8.00) Dollar filing fee at your earliest convenience.

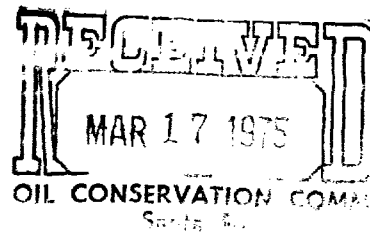
Very truly yours,

PHIL R. LUCERO
COMMISSIONER OF PUBLIC LANDS

BY:
RAY D. GRAHAM, Director
Oil and Gas Division

PRL/RDG/s
encls.

cc: USGS-Roswell, New Mexico
OCC- Santa Fe, New Mexico



Drawer 1857
Roswell, New Mexico 88201

March 12, 1975

4476

Hanagan Petroleum Corporation
Attention: Mr. Robert G. Hanagan
P.O. Box 1737
Roswell, New Mexico 88201

Gentlemen:

The 1975 plan of development submitted for the Catclaw Draw unit area, Eddy County, New Mexico, was approved on this date subject to like approval by the appropriate State officials.

Such plan proposes the drilling of no additional wells and five approved copies are enclosed.

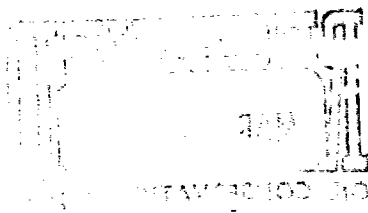
Sincerely yours,

(ORIG. SGD.) CARL C. TRAYWICK

CARL C. TRAYWICK
Acting Area Oil and Gas Supervisor

cc:
✓ NMOCC, Santa Fe (ltr only)
Com. Pub. Lands, Santa Fe (ltr only)
Artesia (w/cy plan)

JAGillham:ds



Drawer 1857
Roswell, New Mexico 88201

March 12, 1975

Hanigan Petroleum Corporation
Attention: Mr. Robert C. Hanigan
P.O. Box 1737
Roswell, New Mexico 88201

Gentlemen:

The 1975 plan of development submitted for the Catlaw Draw unit area, Eddy County, New Mexico, was approved on this date subject to like approval by the appropriate state officials.

Such plan proposes the drilling of no additional wells and five approved copies are enclosed.

Sincerely yours,

CARL C. TRAYNICK
Acting Area Oil and Gas Supervisor

cc:
NIMCOO, Santa Fe (for only)
Com. Pub. Lands, Santa Fe (for only)
Aerials (w/ov plan)

Enclosures

State of New Mexico

~~TELEPHONE~~
505-827-2746




Commissioner of Public Lands
December 18, 1974

4476

ALEX J. ARMIJO
COMMISSIONER

P. O. BOX 1148
SANTA FE, NEW MEXICO

Hanagan Petroleum Corporation
P. O. Box 1737
Roswell, New Mexico 88201

Re: Catalina Draw Unit
Plan of Development
January 1, 1975 to December
31, 1975
Eddy County, New Mexico

ATTENTION: Mr. Robert G. Hanagan

Gentlemen:

The Commissioner of Public Lands has this date approved your proposed Plan of Development for the period beginning January 1, 1975 to December 31, 1975, for the Catalina Draw Unit, Eddy County, New Mexico. This Plan of Development proposes that no additional wells be drilled upon the Catalina Draw Unit Area during said period of time.

This approval is subject to like approval by the United States Geological Survey.

Enclosed are seven (7) approved copies as per your request.

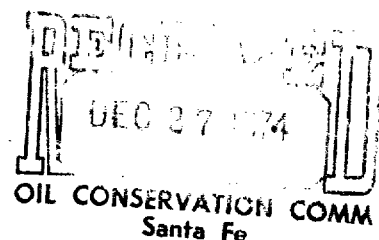
Your Nine (\$9.00) Dollar filing fee has been received.

Very truly yours,

RAY D. GRAHAM, Director
Oil and Gas Department

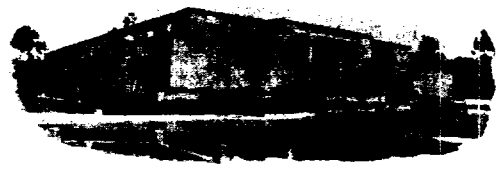
AJA/EDG/s
encls.
cc:

UCCS-Roswell, New Mexico
OGC- Santa Fe, New Mexico ✓



201-827-2743

State of New Mexico



Commissioner of Public Lands
December 18, 1974

P. O. Box 1148
SANTA FE, NEW MEXICO

ALEX J. ARMILLO
COMMISSIONER

Managers Petroleum Corporation
P. O. Box 1737
Roswell, New Mexico 88201

Re: Catalina Draw Unit
Plan of Development
January 1, 1975 to December
31, 1975
Elddy County, New Mexico

ATTENTION: Mr. Robert C. Hargan

Gentlemen:

The Commissioner of Public Lands has this date approved your proposed Plan of Development for the period beginning January 1, 1975 to December 31, 1975, for the Catalina Draw Unit, Elddy County, New Mexico. This Plan of Development proposes that no additional wells be drilled upon the Catalina Draw Unit Area during said period of time.

This approval is subject to final approval by the United States Geological Survey.

Enclosed are seven (7) approved copies as per your request.

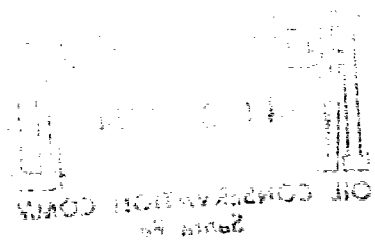
Your \$100.00 initial filing fee has been received.

Very truly yours,

RAY D. CHAMBERLAIN, Director
Oil and Gas Department

ALA/RIC/s
encs.
cc:

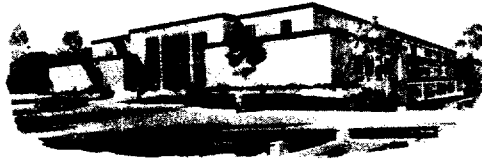
USGS-Roswell, New Mexico
OGC-Roswell, New Mexico



State of New Mexico



ALEX J. ARMIJO
COMMISSIONER



Commissioner of Public Lands

December 26, 1973

TELEPHONE
505-827-2748

P. O. BOX 1148
SANTA FE, NEW MEXICO

4476

Managan Petroleum Corporation
P. O. Box 1737
Roswell, New Mexico 88201

Re: Catchlaw Draw Unit
Plan of Development
January 1974 through
December 1974
Eddy County, New Mexico

ATTENTION: Mr. Robert S. Managan

Gentlemen:

The Commissioner of Public Lands has this date approved your proposed Plan of Development for the period beginning January 1, 1974 through December 31, 1974, for the Catchlaw Draw Unit, Eddy County, New Mexico. This Plan of Development proposes that no additional wells be drilled upon the Catchlaw Draw Unit Area during said period of time.

This approval is subject to like approval by the United States Geological Survey.

Enclosed are seven (7) approved copies as per your request.

Your Six (\$6.00) Dollar filing fee has been received. Since nine (9) instruments were processed, please remit the remaining Three (\$3.00) Dollar filing fee.

Very truly yours,

RAY D. GRAHAM, Director
Oil and Gas Department

AJA/RDB/rz

Enclosures
cc:

USGS-Roswell, New Mexico
OCC-Santa Fe, New Mexico ✓



State of New Mexico



Commissioner of Public Lands



ALEX J. ARMISTEAD
COMMISSIONER

December 26, 1933

511 BOX 1148
SANTA FE, NEW MEXICO

Isaagan Petroleum Corporation
P. O. Box 1727
Roswell, New Mexico 88201

Re: Catalaw Draw Unit
Plan of Development
January 1934 through
December 1934
Eddy County, New Mexico

ATTENTION: Mr. Robert G. Hanagan

Gentlemen:

The Commissioner of Public Lands has this date approved your proposed Plan of Development for the period beginning January 1, 1934 through December 31, 1934, for the Catalaw Draw Unit, Eddy County, New Mexico. This Plan of Development proposes that no additional wells be drilled upon the Catalaw Draw Unit Area during said period of time.

This approval is subject to like approval by the United States Geological Survey.

Enclosed are seven (7) approved copies as per your request.

Your six (\$6.00) dollar filing fee has been received. Since nine (9) instruments were processed, please remit the remaining three (3) dollar filing fee.

Very truly yours,

RAY C. GRAHAM, Director
Oil and Gas Department

ALA/26/12

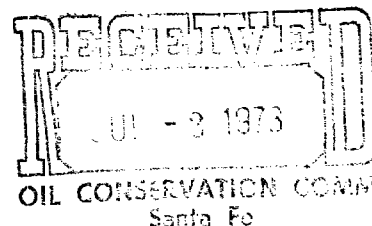
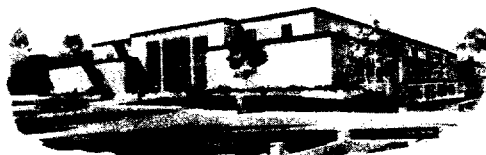
Enclosure
cc:

0222-Roswell, New Mexico
000-Santa Fe, New Mexico

TELEPHONE
202-433-5746

State of New Mexico

TELEPHONE
305-827-2748



Commissioner of Public Lands

June 20, 1973

ALEX J. ARMIJO
COMMISSIONER

P. O. Box 1148
SANTA FE, NEW MEXICO

Managan Petroleum Corporation
P. O. Box 1737
Roswell 1, New Mexico 88201

Re: Catclaw Draw Unit
Amended Plan of Development
January 1, 1973 through December
1973
Eddy County, New Mexico

ATTENTION: Mr. Robert G. Managan

Gentlemen:

The Commissioner of Public Lands has this date approved your proposed Amended Plan of Development for the period beginning January 1, 1973 through December 31, 1973, for the Catclaw Draw Unit, Eddy County, New Mexico. This amended Plan of Development proposes the drilling of the # 9 Catclaw Draw Unit Well. This well is to be drilled prior to December 31, 1973.

This approval is subject to like approval by the United States Geological Survey.

Enclosed are seven approved copies as per your request. Please furnish us an approved copy when the USGS has given their approval.

Your Six (\$6.00) Dollar filing fee has been received.

Very truly yours,

RAY D. GRAHAM, Director
Oil and Gas Department

AJA/RDG/s
encls.
cc:

USGS-Roswell, New Mexico
OCC- Santa Fe, New Mexico ✓

✓ P.S. Please disregard our letter of same date whereby we stated that the well was to be drilled prior to December 31, 1972, instead of 1973.

~~SECRET~~
62-136-01



Commissioner of Public Lands

000-66-0000

SANTA FE, NEW MEXICO
P. O. BOX 1148

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Page 2 of 2

CONFIDENTIAL

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For approval is required in the following manner:

Approved: _____
Special Agent in Charge

10. How much used and/or gifted value (\$0.00; 20.00; 40.00; 60.00; 80.00; 100.00)

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DATE _____ TIME _____
IN OFFICE OF SAC PAGE NO. 110

6-20144

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Office: 404-525-2200

SECRET

1. The above information is being furnished to you for your information only. It is not intended to be used for any other purpose.



United States Department of the Interior

GEOLOGICAL SURVEY

Drawer 1857
Roswell, New Mexico 88201

4476

June 15, 1973

Hanagan Petroleum Corporation
Attention: Mr. Robert G. Hanagan
P. O. Box 1737
Roswell, New Mexico 88201

Gentlemen:

Your application for the initial Strawn participating area for the Catlaw Draw unit agreement, Eddy County, New Mexico, was approved on June 15, 1973, by the Acting Area Oil and Gas Supervisor, Geological Survey, Roswell, New Mexico, effective as of August 7, 1972.

The initial Strawn participating area, consisting of 640 acres and described as sec. 36, T. 21 S., R. 25 E., is based upon the completion of Catlaw Draw unit well No. 3. Such well is located on State land in the NE1/4 sec. 36, T. 21 S., R. 25 E., and was completed on August 7, 1972, for an absolute open flow potential of 5,200 MCF of gas per day from the Strawn in the interval from 9,544 feet to 9,560 feet.

Copies of the approved application are being distributed to the appropriate Federal offices, and five approved copies are returned herewith. You are requested to furnish all interested parties with appropriate evidence of this approval.

Sincerely yours,

(ORIG. SGD.) CARL C. TRAYWICK

CARL C. TRAYWICK
Acting Area Oil and Gas Supervisor

cc:

Denver (w/cy appln.)

Artesia (w/cy appln.)

BLM, Santa Fe (ltr. only)

✓ NMOCC-Santa Fe (ltr. only)

Com. of Pub. Lands, Santa Fe (ltr. only)

REShook:lh

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10505 JOURNAL OF THE AMERICAN MEDICAL ASSOCIATION

2002.12.27

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The above described area, consisting of approximately 10 acres, is located in the northwestern corner of Section 16, Township 19N, Range 18E, Twp. 19N., R. 18E., S. 16N., and was surveyed by J. H. Smith, dated May 19, 1917, and contains open flow groundwater of about 10 feet per day from the surface in the vicinity of the center.

When the requested to furnish all interested parties with appropriate information of this approval.

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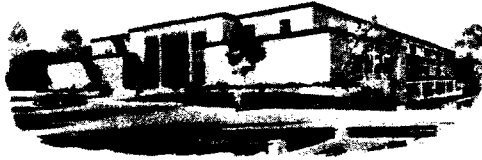
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State of New Mexico

~~TELEPHONE~~
505-827-2748



4476

Commissioner of Public Lands

June 20, 1973

ALEX J. ARMIJO
COMMISSIONER

P. O. BOX 1148
SANTA FE, NEW MEXICO

Managan Petroleum Corporation
P. O. Box 1737
Roswell, New Mexico 88201

Re: Catclaw Draw Unit
Amended Plan of Development
January 1, 1973 through December
Kddy County, New Mexico

ATTENTION: Mr. Robert G. Managan

Gentlemen:

The Commissioner of Public Lands has this date approved your proposed Amended Plan of Development for the period beginning January 1, 1973 through December 31, 1973, for the Catclaw Draw Unit, Kddy County, New Mexico. This amended Plan of Development proposes the drilling of the #9 Catclaw Draw Unit Well. This well is to be drilled prior to December 31, 1972.

This approval is subject to like approval by the United States Geological Survey.

Enclosed are seven approved copies as per your request. Please furnish us an approved copy when the USGS has given their approval.

Your Six (\$6.00) Dollar filing fee has been received.

Very truly yours,

HAY D. GRAHAM, Director
Oil and Gas Department

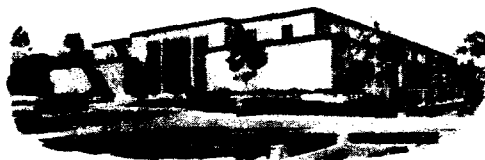
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encls.

cc: USGS-Roswell, New Mexico
OCC- Santa Fe, New Mexico

State of New Mexico

4476

TELEPHONE
505-827-2748



Commissioner of Public Lands

January 2, 1973

ALEX J. ARMIJO
COMMISSIONER

P. O. BOX 1148
SANTA FE, NEW MEXICO

Hanagan Petroleum Corporation
P. O. Box 1737
Roswell, New Mexico 88201

Re: Catclaw Draw Unit
Amended Plan of Development
January 1, 1973 through December
31, 1973
Eddy County, New Mexico

ATTENTION: Mr. Robert G. Hanagan

Gentlemen:

The Commissioner of Public Lands has this date approved your proposed Amended Plan of Development for the period beginning January 1, 1973 through December 31, 1973, for the Catclaw Draw Unit, Eddy County, New Mexico. This amended Plan of Development provides for no additional wells but plans to properly operate the produce the seven existing Unit Wells capable of producing unitized substances in paying quantities. This approval is subject to like approval by the United States Geological Survey.

Enclosed are seven approved copies as per your request.

Your Six (\$6.00) Dollar filing fee has been received.

Very truly yours,

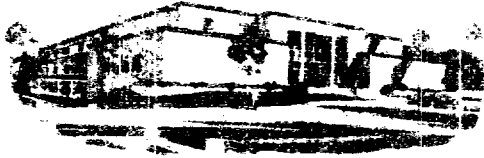
RAY D. GRAHAM, Director
Oil and Gas Department

AJA/RDG/s
encs.

cc: UGGS-Roswell, New Mexico
OGC-Santa Fe, New Mexico

502-252-3747

State of New Mexico



Commissioner of Public Lands

January 2, 1973

ALEX J. ARMILLO
COMMISSIONER

P. O. BOX 1148
SANTA FE, NEW MEXICO

Hansen Industries Corporation
P. O. Box 1707
Roswell, New Mexico 88201

Re: Certain Draw Unit
Amended Plan of Development
January 1, 1973 through December
31, 1973
Edgely County, New Mexico

ATTENTION: Mr. Robert W. Morgan

Commissioner

The Commissioner of Public Lands has this day approved your proposed amended plan of development for the certain beginning January 1, 1973 through December 31, 1973, for the Certain Draw Unit, Edgely County, New Mexico. This amended plan of development provides for no additional wells but plans to properly operate the seven existing wells. Wells capable of producing untaxed substances to paying customers. This approval is subject to the approval by the United States Geological Survey.

Enclosed are seven approved copies as per your request.

Your fee (\$6.00) dollar filing has been received.

Very truly yours,

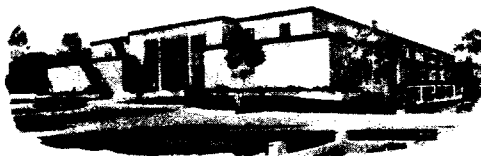
RAY D. HANSEN, Director
Oil and Gas Department

ALA/MS/ALA
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cc

USA-Santa Fe, New Mexico
USA-Roswell, New Mexico

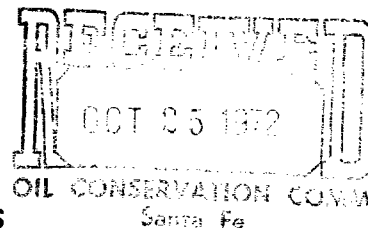
State of New Mexico

TELEPHONE
505-227-2748



Commissioner of Public Lands

October 24, 1972



ALEX J. ARMIJO
COMMISSIONER

P. O. Box 1148
SANTA FE, NEW MEXICO

Managan Petroleum Corporation
P. O. Box 1737
Roswell, New Mexico 86201

4476

Re: Catclaw Draw Unit
Application for Approval of First
Revision of the Initial Participating
Area for the Morrow Formation
Eddy County, New Mexico

ATTENTION: Mr. Robert G. Managan

Gentlemen:

The Commissioner of Public Lands has this date approved your application for the First Revision of the Initial Participating Area for the Morrow Formation, for the captioned unit, which includes the S/2 of Section 14 and all of Section 23, all in Township 21 South, Range 23 East, Eddy County, New Mexico. This approval is subject to like approval by the United States Geological Survey.

We are retaining two (2) copies for our files and returning eight copies to you.

Your Three (\$3.00) dollar filing fee has been received.

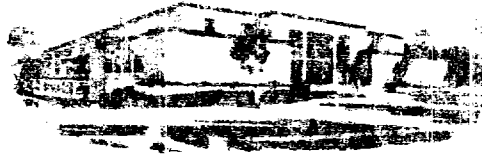
Very truly yours,

RAY D. GRAHAM, Director
Oil and Gas Department

AJA/RDG/s
encls.
cc:

USCS-Roswell, New Mexico
OCC- Santa Fe, New Mexico ✓

State of New Mexico



Commissioner of Public Lands



ALBUQUERQUE
COMMISSIONER

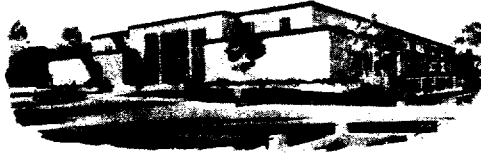
P. O. BOX 1199
SANTA FE, NEW MEXICO

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State of New Mexico

TELEPHONE

505-827-2748



Commissioner of Public Lands

October 27, 1972

ALEX J. ARMIJO
COMMISSIONER

Rec- 10-27-72
4476

P. O. Box 1148
SANTA FE, NEW MEXICO

Hanagan Petroleum Corporation
P. O. Box 1737
Roswell, New Mexico 88201

Re: Catclaw Draw Unit
Second Revision of the Initial
Participating Area for the
Morrow Formation
Eddy County, New Mexico

ATTENTION: Mr. Robert G. Hanagan

Gentlemen:

The Commissioner of Public Lands has this date approved your application for the Second Revision of the Initial Participating Area for the Morrow formation, for the captioned unit, which includes the S/2 of Section 13, All of Sections 24, 25, 35 and 36 in Township 21 South, Range 25 East, Eddy County, New Mexico. This approval is subject to like approval by the United States Geological Survey.

We are retaining two (2) copies for our files and returning eight copies to you.

Your Three (\$3.00) Dollar filing fee has been received.

Very truly yours,

RAY D. GRAHAM, Director
Oil and Gas Department

AJA/RDG/s
encls.
cc:

USGS-Roswell, New Mexico
OCC- Santa Fe, New Mexico ✓

State of New Mexico



Commissioner of Public Lands



P.O. Box 142
Santa Fe, New Mexico

October 17, 1917

ALBERT J. ARMSTRONG
COMMISSIONER

Dear Sir:
I have the honor to acknowledge the receipt of your letter of the 10th inst.

and in reply to inform you that the same has been forwarded to the proper authorities for their consideration.

Very respectfully,
Your obedient servant,

W. H. HARRIS

The enclosed herewith is a copy of the report of the Surveyor General of the State of New Mexico, dated and captioned as above, which report was received by this office on the 14th inst.

and is being forwarded to you for your information and consideration.

Very respectfully,
Your obedient servant,

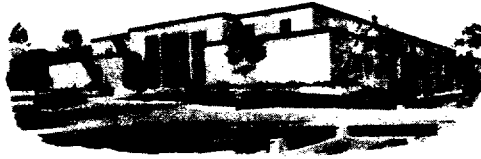
W. H. HARRIS

W. H. HARRIS
Surveyor General

W. H. HARRIS
Surveyor General

W. H. HARRIS
Surveyor General

State of New Mexico



Commissioner of Public Lands

May 22, 1972

ALEX J. ARMIJO
COMMISSIONER

P. O. Box 1148
SANTA FE, NEW MEXICO

Hanagan Petroleum Corporation
P. O. Box 1737
Roswell, New Mexico 88201

Re: Catclaw Draw Unit
Amended Plan of Development
Eddy County, New Mexico

ATTENTION: Mr. Robert G. Hangan

Gentlemen:

The Commissioner of Public Lands has this date approved your Amended Plan of Development for the Catclaw Draw Unit, Eddy County, New Mexico. This plan proposes the drilling of well No. 3 and covers the period from March 1, 1972 to August 31, 1972. This approval is subject to like approval by the United States Geological Survey.

Enclosed are six (6) approved copy of the plan as per your request. Please send us a copy when the United States Geological Survey has approved the plan.

Your Six (\$6.00) Dollar diling fee has been received.

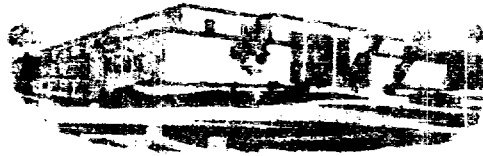
Very truly yours,

RAY D. GRAHAM, Director
Oil and Gas Department

AJA/RDG/s
encls.

cc: USGS-Roswell, New Mexico (ltr. only)
OCC-Santa Fe, New Mexico (ltr. only), ✓

State of New Mexico



Commissioner of Public Lands



P. O. BOX 1148
SANTA FE, NEW MEXICO

May 12, 1933

ALBUQUERQUE
COMMISSIONER

Dear Sir:
I am in receipt of your letter of the 10th inst. regarding the proposed plan for the development of the Gila River Valley, New Mexico.

Enclosed for the Bureau are two copies of the plan for the development of the Gila River Valley, New Mexico, and one copy of the report of the United States Geological Survey.

Very truly yours,
W. H. H. H.

Commissioner

The Commissioner of Public Lands has this date approved the proposed plan for the development of the Gila River Valley, New Mexico, and has caused the same to be printed. The plan proposes the setting of well No. 3 and the proposed plan for the development of the Gila River Valley, New Mexico, and one copy of the report of the United States Geological Survey.

Enclosed for the Bureau are two copies of the plan for the development of the Gila River Valley, New Mexico, and one copy of the report of the United States Geological Survey.

Very truly yours,
W. H. H. H.

Very truly yours,
W. H. H. H.

Very truly yours,
W. H. H. H.

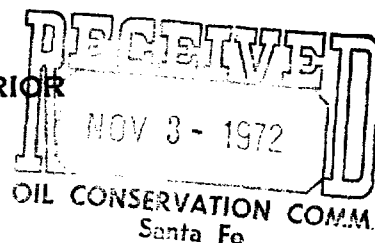
Very truly yours,
W. H. H. H.

Very truly yours,
W. H. H. H.



IN REPLY REFER TO:

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
WASHINGTON 25, D. C.



Sumner 1857
Roswell, New Mexico 88201

October 31, 1972

Hennagan Petroleum Corporation
P. O. Box 1737
Roswell, New Mexico 88201

4476

Attention: Mr. Robert G. Hennagan

Gentlemen:

The first revision of the Marrow participating area for the Catclaw Draw unit agreement, Bddy County, New Mexico, No. 14-08-0001-11588, was approved on October 31, 1972, by the Acting Area Oil and Gas Supervisor, U. S. Geological Survey, effective as of October 1, 1971. By such revision, the Marrow participating area is enlarged to 1,600 acres.

The first revision adds 960 acres, described as the S $\frac{1}{4}$ of sec. 14 and all of sec. 23, T. 21 S., R. 25 E., N.M.P.M., and is based on the information contributed by unit well No. 2 located in the NW $\frac{1}{4}$ of sec. 23, T. 21 S., R. 25 E., N.M.P.M. Such well was completed on October 28, 1971, for a calculated absolute open flow potential of 27,000 MCF/D from the Marrow formation in the interval from 10,396 feet to 10,460 feet.

Copies of the approved application are being distributed to the appropriate Federal offices and five approved copies are returned herewith. You are requested to furnish the State of New Mexico and all interested parties with appropriate evidence of this approval.

Sincerely yours,

(ORIG. SGD.) CARL C. TRAYWICK

CARL C. TRAYWICK
Acting Area Oil and Gas Supervisor

cc:
Washington (w/cy application)
Artasia (w/cy application)
RLM, Santa Fe (ltr. only)
WDOCC, Santa Fe (ltr. only)
Commissioner of Public Lands, Santa Fe (ltr. only)

REShook:en

OR

1. *Chlorophyll a* and *Chlorophyll b* contents were determined by the method of Arar and Collins (1971).

REPORT OF THE BOARD OF DIRECTORS

[illegible]

The first revision of the water participating area for the Columbia River main reservoir, High Dam, was made, 14-10-50 (14-10-1950), and reported on October 14, 1951, by the Acting Area Oil and Gas Supervisor, U. S. Geological Survey, effective as of January 1, 1951. In such revision, the known participating area is estimated as 1,000 acres.

1. The first of the two is a letter from the Director of the FBI to the Director of the CIA, dated 10/10/50, in which the Director of the FBI states that he has received information from a source that a certain individual is planning to travel to the Soviet Union. The second is a letter from the Director of the CIA to the Director of the FBI, dated 10/10/50, in which the Director of the CIA states that he has received information from a source that a certain individual is planning to travel to the Soviet Union.

1. The following information is being furnished to you for your information and guidance. It is not intended to be used as a basis for any action on your part. It is not intended to be used as a basis for any action on your part. It is not intended to be used as a basis for any action on your part.

100-441874-6

(Orig. 2021-0001, 2008-0180)

THE UNIVERSITY OF CHICAGO

100
Washington (W) assignment
Arizona (A) assignment
Ill, Kansas (I) only
Ill, Kansas (I) only
Ill, Kansas (I) only
Ill, Kansas (I) only

WILSON, D. B.



February 3, 1971

RECEIVED

'71 FEB 5 AM 8 27

PHONE 505 - 623-5053
J. P. WHITE BUILDING
POST OFFICE BOX 1797
ROSWELL, NEW MEXICO

New Mexico Oil Conservation Commission
P. O. Box 2088
Santa Fe, New Mexico 87501

Attn: Mr. Pete Porter

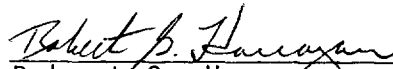
Re: Unit Agreement - Catclaw Draw Unit
Hanagan Petroleum Corporation
Twp. 21 S., Rge. 25 E.
Eddy County, New Mexico

Dear Sir:

As per your Case No. 4476 and Order No. R-4081, please find enclosed an executed original of the above captioned.

Very truly yours,

HANAGAN PETROLEUM CORPORATION


Robert G. Hanagan

RGH:ab
Encls.



OIL CONSERVATION COMMISSION

STATE OF NEW MEXICO

P. O. BOX 2088 - SANTA FE

07801

**GOVERNOR
DAVID F. CARGO
CHAIRMAN**

**LAND COMMISSIONER
ALEX J. ARMIJO
MEMBER**

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

December 17, 1970

Mr. Randolph Richardson
Attorney at Law
J. P. White Building
Post Office Box 819
Roswell, New Mexico 88201

Re: Case No. 4476
Order No. R-4081
Applicant:
Hanagan Petroleum Corporation

Dear Sir:

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

Very truly yours,

G. L. Carter, Jr.

A. L. PORTER, Jr.
Secretary-Director

ALP/1r

Copy of order also sent to:

Hobbs OCC x

Artesia OCC x

Aztec OCC_____

Other **Unit Division - State Land Office**



UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
WASHINGTON 25, D.C.

IN REPLY REFER TO:

MAILED
DEC 2 1970
U.S. GEOLOGICAL SURVEY

**Hessman Petroleum Corporation
P.O. Box 1737
Roswell, New Mexico 88201**

NOV 25 1970

Attention: Mr. Robert G. Hessman

Continued:

Your application of November 16, filed with the Regional Oil and Gas Supervisor, Roswell, New Mexico, on November 17, 1970, requests the designation of the Catalina Draw unit area embracing 6,720 acres, more or less, Sibley County, New Mexico, as logically subject to exploration and development under the unitization provisions of the Mineral Leasing Act, as amended.

Pursuant to unit plan regulations of December 20, 1930, 30 CFR 226.3 (1968 reprint), the land requested as outlined on your plat marked "Exhibit A, Catalina Draw Unit, Sibley County, New Mexico", is hereby designated as a logical unit area.

The unit agreement submitted for the area designated should provide for the drilling of the initial exploratory well to the Mississippian Barnett shale to test the entire Pennsylvanian System, or to a depth of 10,000 feet. As proposed by your application, the Form of Agreement for Unproved Areas (1968 reprint) should be used, modified by the appropriate language required for State of New Mexico lands.

In the absence of any other type of land requiring special provisions or any objections not now apparent, a duly executed agreement identical to the 1968 reprint, modified only as outlined above and approved by the appropriate officials of the State of New Mexico, will be approved if submitted in approvable status within a reasonable period of time. However, the right is reserved to deny approval of any executed agreement which, in our opinion, does not have full commitment of sufficient lands to afford effective control of operations in the unit area.

When the executed agreement is transmitted to the Supervisor for approval, include the latest status of all acreage. The format of the sample exhibits attached to the 1968 reprint of the standard form should be followed closely in the preparation of exhibits A and B.



NOV 5 1970

100-443886-1000

Figure 1

[illegible]

1. The first of these is the fact that the Commission has not yet received any information from the Government of the Republic of China (Taiwan) regarding the activities of the Chinese Communist Party in the United States. This is a serious omission, as the Commission is required to report on the activities of the Communist Party in the United States.

[illegible]

1. The above information is being furnished to you for your information and use only. It is not to be distributed outside your agency without the express written approval of the Bureau. 2. The above information is being furnished to you for your information and use only. It is not to be distributed outside your agency without the express written approval of the Bureau. 3. The above information is being furnished to you for your information and use only. It is not to be distributed outside your agency without the express written approval of the Bureau. 4. The above information is being furnished to you for your information and use only. It is not to be distributed outside your agency without the express written approval of the Bureau. 5. The above information is being furnished to you for your information and use only. It is not to be distributed outside your agency without the express written approval of the Bureau. 6. The above information is being furnished to you for your information and use only. It is not to be distributed outside your agency without the express written approval of the Bureau. 7. The above information is being furnished to you for your information and use only. It is not to be distributed outside your agency without the express written approval of the Bureau. 8. The above information is being furnished to you for your information and use only. It is not to be distributed outside your agency without the express written approval of the Bureau. 9. The above information is being furnished to you for your information and use only. It is not to be distributed outside your agency without the express written approval of the Bureau. 10. The above information is being furnished to you for your information and use only. It is not to be distributed outside your agency without the express written approval of the Bureau.

[illegible]

Since the unit now contains State of New Mexico lands, we are sending a copy of this letter to the State Land Commissioner, Santa Fe. Please contact the State of New Mexico before soliciting judgments, regardless of prior contacts with or claimants from the State.

Sincerely yours,

W. A. Radlinski

W. A. Radlinski
Acting Director

cc:

HL, Santa Fe (w/cy Ex. A)

State Land Commissioner, Santa Fe (w/cy Ex. A)

N.M.O.C.C., Santa Fe ✓

Rowell (2)

REHank:ds:11-20-70

SERIALS:

New Mexico 009120
009753
009755-A
0106774
0106774-B
0112134-A
0112134-C
0150455
0154509
0160017
0160017-A
0174000
0004077
0074057
IM 9543
9814

W. A. J. J. J.

W. A. Radlinski
Director

(S) (U)
H.A.O.C., Santa Fe
State Land Commissioner, Santa Fe (w/cy Ex. A)
Bill, Santa Fe (w/cy Ex. A)

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