

Tract No.	Description	Lease No.	Participating Acres	% of Participating Area	Working Interest Owners %
Tr. 19	T-18S, R-29E Sec. 6: E/2 NW/4	NM-0560401(KGS)	80.00	4.0533419	H. B. McGrady .025162
Tr. 20	T-17S, R28E Sec. 36: SE/4 NE/4, NE/4 SE/4, NE/4 NE/4	647-368	120.00	6.0800129	Charles C. Harlan, Jr. .025162
Tr. 21	T-18S, R-28E Sec. 1: NE/4 SE/4	2029-6	40.00	2.0266709	Featherstone Farms, Ltd. .150965
Tr. 24	T-17S, R-29E Sec. 31: SE/4 SW/4	B-4458-33	40.00	2.0266709	Roland McLean .050325
Tr. 25	T-17S, R-29E Sec. 32: NW/4 SW/4	B-4918-85	40.00	2.0266709	Charles W. Hicks .050325
Tr. 31	T-17S, R-29E Sec. 30: Lot 4 (SW/4 SW/4, 28.40 Ac.) SE/4 SW/4	E-7596-orig.	68.40	3.4656074	Trust for Olen F. Featherstone II .050325
Tr. 32	T-17S, R-29E Sec. 32: SW/4 NW/4	E-7640	40.00	2.0266709	TOTAL 100.000000
Tr. 33	T-17S, R-28E Sec. 36: SE/4 SE/4	B-111593-8	40.00	2.0266709	
Tr. 34	T-17S, R-29E Sec. 32: NW/4 NW/4	E-537-5	40.00	2.0266709	
Tr. 37	T-17S, R29E Sec. 31: S/2 SE/4	E-4201-orig.	80.00	4.0533419	
Tr. 38	T-18S, R28E Sec. 1: E/2 NE/4	E-6946	80.00	4.0533419	
Tr. 40	T-18S, R28E Sec. 1: SE/4 SE/4	L-1645-1	40.00	2.0266709	
		TOTAL	1973.68	100.0000000	

ALLOCATION SCHEDULE, INITIAL PLUS FIRST, SECOND AND THIRD REVISIONS OF PARTICIPATING AREA
EMPIRE SOUTH DEEP UNIT

Tract No.	Description	Lease No.	Participating Acres	% of Participating Area	Working Interest Owners %
Tr. 2	T-18S, R-28E Sec. 12: NE/4 NE/4 T-18S, 29E Sec. 7: Lot 1 (NW/4 NW/4, 30.22 ac.) NE/4 NW/4	LC-028772(a)	110.22	5.5844919	Amoco Production Company 32.821910 Harvey E. Yates Company 14.218750 General American Oil Company of Texas 6.105035 Continental Oil Company 7.895140 Tenneco Oil Company 3.569535 Shinnery Investment Company 3.281250 Depco, Inc. 6.314060 Husky Oil Company of Delaware 6.314060 Hondo Oil & Gas Company 2.720435 Cities Service Oil Company 2.012940 Bright, Schiff and Kennedy 1.207760 Me-Tex Supply Company 1.207760 J. Cleo Thompson, Sr. 1.073780 James Cleo Thompson, Jr. 1.073460 I & L Development Company .536570 Sam Lett .536890 Yates Petroleum Company 1.964760 Harold Kersey 1.811640 Bassett-Birney Oil Corporation 1.610350 Charlene K. Seay .603880 M. W. Smith .402585 Kathleen Miller .402585 Atlantic Richfield Company .402585 O. H. Randel .402585 C. F. Qualia .100646 Mark D. Wilson .100647 A. J. Losee .100646 Robert E. Boling .100646 Harold Larsen, Administrator .402585 Donald Brown .201292 Earl A. Latimer, Jr. .150969
Tr. 3	T-18S, R-29 E Sec. 7: N/2 NE/4	LC-028772(c)	80.00	4.0533419	
Tr. 6	T-18S, R-29E Sec. 6: Lots 3, 4 (W/2 SW/4) E/2 SW/4	LC-058126	139.93	7.0898019	
Tr. 6-A	T-18S, R-29E Sec. 6: SE/4	LC-058126	160.00	8.1066839	
Tr. 9	T-18S, R-29E Sec. 6: E/2 NE/4	LC-058582	80.00	4.0533419	
Tr. 13-A	T-17S, R-29E Sec. 30: S/2 SE/4 Sec. 31: Lot 4 (SW/4 SW/4, 29.32 ac.)	LC-062407	109.32	5.5388919	
Tr. 14	T-18S, R-29E Sec. 6: NW/4 NE/4	LC-065374-A	40.00	2.0266709	
Tr. 15	T-18S, R-29E Sec. 6: SW/4 NE/4	NM-9026 (KGS)	40.00	2.0266709	
Tr. 17	T-17S, R-29E Sec. 31: Lot 1 (NW/4 NW/4, 28.63 acres), NE/4 NW/4, N/2 NE/4 T-17S, R-29E Sec. 31: Lot 2 (SW/4 NW/4 28.86 ac.) SE/4 NW/4, NE/4 SW/4, S/2 NE/4, N/2 SE/4	NM-0555569	417.49	21.152873	
Tr. 17-A	T-17S, R-29E Sec. 31: Lot 3 (NW/4 SW/4, 29.09 ac.)	NM-0555569	29.09	1.4738966	
Tr. 18	T-18S, R-29E Sec. 6: Lots 1, 2 (W/2 NW/4)	NM-0558119(KGS)	59.23	3.0009930	



United States Department of the Interior

GEOLOGICAL SURVEY

Drawer 1857
Roswell, New Mexico 88201

45/1
October 30, 1974

Amoco Production Company
Attention: Mr. T. C. Borland
P.O. Box 3092
Houston, Texas 77001

Gentlemen:

Nine copies of an instrument entitled "Change in Unit Operator," dated August 27, 1974, by which Midwest Oil Corporation relinquishes and Amoco Production Company assumes all rights, duties, and obligations of unit operator for the Empire South Deep unit agreement, No. 14-08-0001-11591, Eddy County, New Mexico, were filed with this office on October 18, 1974.

This "Change in Unit Operator" is approved and effective on this date, October 30, 1974. Like approval was granted by the Commissioner of Public Lands of the State of New Mexico on October 3, 1974. Copies of the approved instrument are being distributed to the appropriate Federal offices and six copies are returned herewith.

Sincerely yours,

(ORIG. SCD) CARL C. TRAYWICK

CARL C. TRAYWICK
Acting Area Oil and Gas Supervisor

cc:

BLM, Santa Fe (w/cy instr.)

NMOCC, Santa Fe (ltr only)

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

Artesia (w/cy instr.)

ARStall:ds



United States Department of the Interior

GEOLOGICAL SURVEY
Drawer 1857
Roswell, New Mexico 88201

May 8, 1974

Midwest Oil Corporation
1500 Wilco Building
Midland, Texas 79701

Gentlemen:

The initial Wolfcamp participating area for the Empire South Deep unit agreement, Eddy County, New Mexico, was approved on May 8, 1974, by the Acting Area Oil and Gas Supervisor, U. S. Geological Survey, effective as of March 8, 1974.

The initial participating area embraces 800.00 acres, including all of sec. 32 and the SW $\frac{1}{4}$ of sec. 33, T. 17 S., R. 29 E., N.M.P.M., and is based on the information contributed by the completion of unit well No. 4 in the SW $\frac{1}{4}$ of sec. 32, T. 17 S., R. 29 E., N.M.P.M. Such well was completed on March 8, 1974, with an initial potential of 303 barrels of oil per day and a gas oil ratio of 1,380 CF gas per barrel of oil from the Wolfcamp interval 8,449 to 8,522 feet.

Copies of the approved applications are being distributed to the appropriate Federal offices and one approved copy is returned herewith. You are requested to furnish all interested parties with appropriate evidence of this approval.

Sincerely yours,

CARL C. TRAYWICK
Acting Area Oil and Gas Supervisor

cc:
BLM, Santa Fe (ltr only)
Area Geologist, Roswell (ltr only)
✓ NMOCC, Santa Fe (ltr only)
Com. Pub. Lands, Santa Fe (ltr only)
Artesia (w/cy appln)

RStall:ds

February 11, 1974

4578

Midwest Oil Corporation
1500 Wilco Building
Midland, Texas 79701

Re: Application for approval of Plan
of Development for the remainder
of the year 1974 for the Empire
South Deep Unit, Eddy County,
New Mexico

ATTENTION: Mr. F. L. Schatz

Gentlemen:

The Commissioner of Public Lands has this date approved your Plan of Development for the remainder of the year 1974, which proposes the drilling of at least one more Morrow well, for the Empire South Deep Unit. This approval is subject to like approval by the United States Geological Survey.

Enclosed is one approved copy of the plan.

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

Very truly yours,

RAY D. GRAHAM, Director
Oil and Gas Department

AJA/EBG/s
encls.
cc:

UECS-Roswell, New Mexico
GCC-Santa Fe, New Mexico

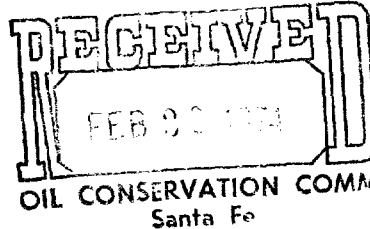


United States Department of the Interior

GEOLOGICAL SURVEY

Drawer 1857
Roswell, New Mexico 88201

4215



February 19, 1974

Midwest Oil Corporation
Attention: Mr. F. L. Schatz
1500 Wilco Building
Midland, Texas 79701

Gentlemen:

One approved copy of your 1974 plan of development for the Empire South Deep unit area, Eddy County, New Mexico, is enclosed. Such plan, proposing completion of unit well No. 4 which is now drilled to a total depth of 10,950 feet and the drilling of one additional Morrow well was approved on this date subject to like approval by the appropriate officials of the State of New Mexico.

Sincerely yours,

CARL C. TRAYWICK
Acting Area Oil and Gas Supervisor

cc:

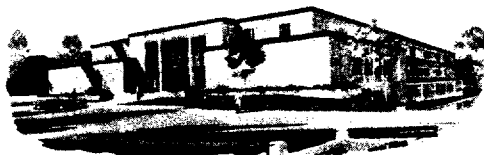
✓ NMOCC, Santa Fe (ltr only)
Com. Pub. Lands, Santa Fe (ltr only)
Artesia (w/cy plan)

JAGillham:ds

State of New Mexico

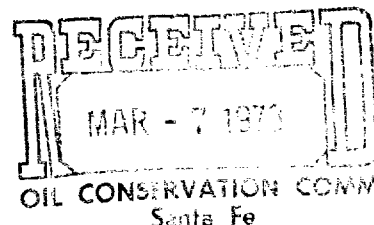
4578
TELEPHONE

505-827-2746



Commissioner of Public Lands

March 6, 1973



ALEX J. ARMIJO
COMMISSIONER

P. O. BOX 1148
SANTA FE, NEW MEXICO

Midwest Oil Corporation
1500 Wilco Building
Midland, Texas 79701

Re: Application for Approval of the
Second Revision of the Morrow
Series of the Pennsylvanian System
Participating Area in the Empire
South Deep Unit, Eddy County,
New Mexico

ATTENTION: Mr. F. L. Schatz

Gentlemen:

The Commissioner of Public Lands has this date approved the Second Revision of the Morrow Series of the Pennsylvanian System Participating Area for the Empire South Deep Unit, Eddy County, New Mexico. This approval is subject to like approval by the United States Geological Survey.

Enclosed is one approved copy for your files.

Please furnish this office a copy of the USGS approval.

Very truly yours,

RAY D. GRAHAM, Director
Oil and Gas Department

AJA/EDG/s
encls.
cc:

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



United States Department of the Interior

GEOLOGICAL SURVEY

Drawer 1857
Roswell, New Mexico 88201

4518
February 26, 1973

Midwest Oil Corporation
Attention: Mr. F. L. Schatz
1500 Wilco Building
Midland, Texas 79701

Gentlemen:

One approved copy of your 1973 plan of development proposing the finalization of the Wolfcamp evaluation of unit well No. 3 and the drilling of one Morrow well for the Empire South Deep unit area, Eddy County, New Mexico, is enclosed. Such plan was approved on this date subject to like approval by the appropriate officials of the State of New Mexico.

Sincerely yours,

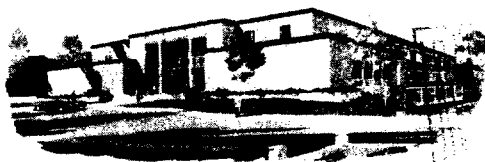
(ORIG. SENT TO CARL C. TRAYWICK)
CARL C. TRAYWICK
Acting Area Oil and Gas Supervisor

cc:
Regional Mgr., Denver (ltr. only)
Washington (w/cy plan)
Artesia (w/cy plan)
NMOCC (ltr. only)
Com. Pub. Lands, Santa Fe (ltr. only)

JAGillham:ds

State of New Mexico

TELEPHONE
505-627-2740



Commissioner of Public Lands

February 22, 1973

ALEX J. ARMIJO
COMMISSIONER

P. O. BOX 1148
SANTA FE, NEW MEXICO

4578

Midwest Oil Corporation
1500 Wilco Building
Midland, Texas 79701

Re: Application for approval of
Plan of Development for the
remainder of the year 1973 for the
Empire South Deep Unit,
Eddy County, New Mexico

ATTENTION: Mr. Frank L. Schatz

Gentlemen:

The Commissioner of Public Lands has this date approved your Plan of Development for the remainder of the year 1973, which proposes the drilling of at least one more Morrow well, for the Empire South Deep Unit. This approval is subject to like approval by the United States Geological Survey.

In the future please submit three (3) copies of the application to this office. We shall retain two copies and return one approved copy to you.

Enclosed is a xerox copy for your files.

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

Very truly yours,

RAY D. GRAHAM, Director
Oil and Gas Department

AJA/RIG/s

encl.

cc:

UNCS-Roswell, New Mexico

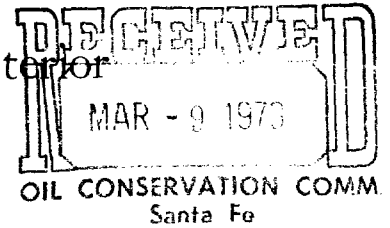
OCC- Santa Fe, New Mexico



United States Department of the Interior

GEOLOGICAL SURVEY

Drawer 1857
Roswell, New Mexico 88201



March 8, 1973

4578

Midwest Oil Corporation
Attention: Mr. F. L. Schatz
1500 Wilco Building
Midland, Texas 79701

Gentlemen:

Your application requesting approval of the second revision of the Morrow participating area for the Empire South Deep unit agreement, Eddy County, New Mexico, No. 14-03-0001-11591, was approved on March 8, 1973, by the Acting Oil and Gas Supervisor, U. S. Geological Survey, effective as of January 1, 1973.

The second revision adds 377.95 acres as described on page one of the application, which enlarges the Morrow participating area to 1,516.65 acres. Such revision is based on the information contributed by the January 17, 1973, completion of unit well No. 3 in the SE $\frac{1}{4}$ sec. 31, T. 17 S., R. 29 E., N.M.P.M., from the Morrow interval 10,317 to 10,830 feet for a calculated open flow potential of 3,500 MCF of gas per day with a gas liquid ratio of 23.7 MCF per barrel.

Copies of the approved application are being distributed to the appropriate Federal offices and two approved copies are returned herewith. The acreage total for the lands described in sec. 31, T. 17 S., R. 29 E., has been corrected from 268.86 acres to 297.95 acres on page one of all copies of the application. You are requested to note this change on your records and furnish all interested parties with suitable evidence of this approval.

Sincerely yours,

(ORIG. SGD.) C. C. Traywick

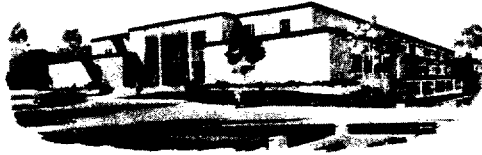
CARL C. TRAYWICK
Acting Area Oil & Gas Supervisor

cc:
Regional Mgr., Denver (ltr only)
Washington (w/cy appln & Engr & Geol Rep)
Artesia (w/cy appln & Engr & Geol Rep)
BLM, Santa Fe (ltr only)
✓ NMOCC, Santa Fe (ltr only)
Com. Pub. Lands, Santa Fe (ltr only)

JAGillham:ds

45/8
State of New Mexico

TELEPHONE
505-827-2748



Commissioner of Public Lands

November 22, 1972

ALEX J. ARMIJO
COMMISSIONER

P. O. Box 1148
SANTA FE, NEW MEXICO

Midwest Oil Corporation
1500 Wilco Building
Midland, Texas 79701

Re: Application for Approval of the First
Expansion of the Morrow Series of the
Pennsylvanian System Participating
Area in the Empire South Deep Unit
Eddy County, New Mexico

ATTENTION: Mr. Frank L. Schatz

Gentlemen:

The Commissioner of Public Lands has this date approved the First Expansion of the Participating Area for the Morrow Series of the Pennsylvanian System for the Empire South Deep Unit, Eddy County, New Mexico. This approval is subject to like approval by the United States Geological Survey.

Enclosed is one approved copy for your files.

Please furnish this office a copy of the USGS approval.

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 ✓



United States Department of the Interior

GEOLOGICAL SURVEY

Drawer 1857
Roswell, New Mexico 88201

November 27, 1972

Midwest Oil Corporation
1500 Wilco Building
Midland, Texas 79701

4578

Attention: Mr. Frank L. Schatz

Gentlemen:

Your application requesting approval of the first revision of the Morrow participating area for the Empire South Deep unit agreement, Eddy County, New Mexico, No. 14-08-0001-11591, was approved on November 27, 1972, by the Acting Oil and Gas Supervisor, U. S. Geological Survey, effective as of June 1, 1972.

The first revision adds 190.22 acres described as the NE $\frac{1}{4}$ sec. 12, T. 18 S., R. 28 E., and Lot 1, NE $\frac{1}{4}$ and W $\frac{1}{4}$ of sec. 7, T. 18 S., R. 29 E., W.M.P.M., which increases the Morrow participating area to 1,138.70 acres. Such revision is based upon the information contributed by the completion of unit well No. 2 located in the NE $\frac{1}{4}$ sec. 6, T. 18 S., R. 29 E., W.M.P.M. Well No. 2 was completed June 8, 1972, for a calculated open flow potential of 15,288 MCF of gas and 252 barrels of oil per day from the Morrow interval 10,856 to 10,890 feet.

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

Sincerely yours,

(ORIGINAL)

CARL C. TRAYWICK
Acting Area Oil and Gas Supervisor

cc:
Washington (w/cy appln & Engr. Geol. Rep.)
Artesia "
BLM, Santa Fe (ltr. only)
✓ NMOCC, Santa Fe (ltr. only)
Com. Pub. Lands, Santa Fe (ltr. only)

JGillham:ds



United States Department of the Interior

GEOLOGICAL SURVEY

Drawer 1857
Roswell, New Mexico 88201

July 26, 1972

Midwest Oil Corporation
1500 Wilco Building
Midland, Texas 79701

Attention: Mr. Frank L. Schatz

Gentlemen:

On this date, your plan of development for the remainder of the year 1972 for the Empire South Deep unit area, Eddy County, New Mexico, wherein you propose to drill unit well No. 3 in the SW $\frac{1}{4}$ sec. 31, T. 17 S., R. 29 E., N.M.P.M., was approved. Such approval is subject to like approval by the appropriate officials of the State of New Mexico.

One approved copy of the plan is enclosed.

Sincerely yours,

(ORIG. SEC. 1-1)

CARL C. TRAYWICK

Acting Area Oil and Gas Supervisor

cc:

Washington (w/cy plan)

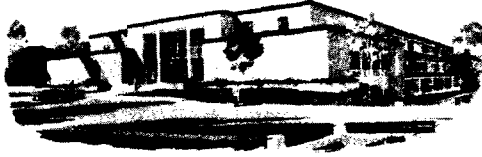
Artesia (w/cy plan)

✓ NMOCC, Santa Fe (ltr only)

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

JAGillham:ds

4578
State of New Mexico



Commissioner of Public Lands

ALEX J. ARMIJO
COMMISSIONER

August 1, 1972

P. O. Box 1148
SANTA FE, NEW MEXICO

Midwest Oil Corporation
1500 Wilco Building
Midland, Texas 79701

Re: Application for approval of Plan of
Development for the remainder of
the year 1972 for the Empire South
Deep Unit, Eddy County, New Mexico

ATTENTION: Mr. Frank L. Schatz

Gentlemen:

The Commissioner of Public Lands has this date approved your Plan of Development for the remainder of the year 1972 for the Empire South Deep Unit, Eddy County, New Mexico. This plan proposes the drilling of unit well No. 3 in the SW/4 of Section 31, Township 17 South, Range 29 East. Such approval is subject to like approval by the United States Geological Survey.

One approved copy of the plan is enclosed.

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

Very truly yours,

RAY D. GRAHA, Director
Oil and Gas Department

AJA/RDG/s

encl.

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



UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
Bureau 1057
Roswell, New Mexico 88201

4575

March 9, 1972

RECEIVED
MAY 13 1972
OIL CONSERVATION COMM.

Midwest Oil Corporation
1500 Wilco Building
Midland, Texas 79701

Gentlemen:

The initial Morrow participating area for the Empire South Deep unit agreement, Eddy County, New Mexico, was approved on March 9, 1972, by the Regional Oil and Gas Supervisor, U. S. Geological Survey, effective as of November 29, 1971.

The initial participating area embraces 948.48 acres, as described on page one of the attached application, and is based on the information contributed by the completion of unit well No. 1 in the SE¼ sec. 6, T. 18 S., R. 29 E., N.M.P.M. Such well was completed November 29, 1971, for a calculated open flow potential of 45,000 MCFGD from the Morrow interval 10,716 to 10,784 feet.

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

Sincerely yours,

N. O. FREDERICK
Regional Oil and Gas Supervisor

cc:
Washington (w/cy appln)
Artesia (w/cy appln)
BLM, Santa Fe (ltr only)
BMC, Roswell (ltr only)
NMOCC, Santa Fe (ltr only)
Com. Pub Lands, Santa Fe (ltr only)

RECEIVED

FEB 28 1972

CONSERVATION COM. 7.
SANTA FE

February 25, 1972

4578

Midwest Oil Corporation
1500 Wilco Building
Midland, Texas 79701

Re: Empire South Deep Unit
Eddy County, New Mexico
Application for Approval of
Initial Participating Area for
the Morrow Series of the
Pennsylvanian System

ATTENTION: Mr. C. F. Qualia

Gentlemen:

The Commissioner of Public Lands has this date given approval to your application of the Initial Participating Area for the Morrow Series of the Pennsylvanian System for the Empire South Deep Unit. This approval is subject to like approval by the United States Geological Survey.

Enclosed please find an approved copy of the application. As soon as you receive back from the U. S. G. S. fully executed copies, please send this office one of same.

Very truly yours,

RAY D. GRAHAM, Director
Oil and Gas Department

AJA/RDG/s

encl.

cc:

USGS-Roswell, New Mexico

OCC- Santa Fe, New Mexico

RECEIVED

SEP 2 1971

September 1, 1971

Mr. A. J. Losee
Carper Building
P. O. Drawer 239
Artesia, New Mexico 88210

Re: Proposed Empire South Deep Unit
Eddy County, New Mexico

Dear Mr. Losee:

The Commissioner of Public Lands has this date approved your Empire South Deep 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.

Very truly yours,

RAY D. GRAHAM, Director
Oil and Gas

AJA/RDG/s
encls.

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



1500 WILCO BUILDING

MIDLAND, TEXAS 79701

GENERAL OFFICES
1700 BROADWAY
DENVER, COLORADO 80202

September 15, 1971

DIVISION OFFICE
1200 CONTINENTAL NATIONAL
BANK BUILDING
FORT WORTH, TEXAS 76102

Oil Conservation Commission
State of New Mexico
State Land Office Building
Attention: Mr. Bruce King

Re: Empire South Deep
Unit Agreement
Eddy County, New Mexico

We enclose herewith original counterpart of the Unit Agreement covering the captioned which has been executed by Midwest Oil Corporation, and the Harvey E. Yates Company along with Certification-Determination sheet dated September 13, 1971, from the United States Geological Survey and Certificate of Approval, dated September 1, 1970, by the Commissioner of Public Lands. The above approvals indicate that all working interest and record title owners have ratified this agreement. All but six royalty and overriding royalty owners have ratified as of this date.

The above material is being furnished you under the terms of paragraph (3) page 2 of Order No. R-4185 of the commission and at the request of the United States Geological Survey.

If we can be of further assistance, please advise.

Very truly yours,

Omar L. Brown
Landman

RECEIVED
SEP 20 1971

OIL CONSERVATION COMM.
SANTA FE

OLB/sk
Enclosures

cc: R. E. Boling

CERTIFICATION--DETERMINATION

RECEIVED
SEP 20 1971

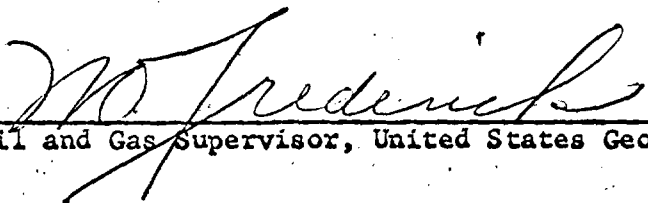
Pursuant to the authority vested in the Secretary of Interior, Conservation Comm.
Oil, Santa Fe
under the act approved February 25, 1920, 41 Stat. 437, as amended,
30 U. S. C. secs. 181, et seq., and delegated to the Oil and Gas
Supervisors of the Geological Survey (33 F.R. 5812), I do hereby:

A. Approve the attached agreement for the development and
operation of the Empire South Deep Unit Area, State of New Mexico.

B. Certify and determine that the unit plan of development
and operation contemplated in the attached agreement is necessary and
advisable in the public interest for the purpose of more properly
conserving the natural resources.

C. Certify and determine that the drilling, producing, rental,
minimum royalty, and royalty requirements of all Federal leases com-
mitted to said agreement are hereby established, altered, changed, or
revoked to conform with the terms and conditions of this agreement.

Dated September 13, 1971


Oil and Gas Supervisor, United States Geological Survey

Contract Number 14-08-0001-11591



IN REPLY REFER TO:

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
~~Drawer 1857~~
Roswell, New Mexico 88201

RECEIVED
SEP 14 1971
OIL CONSERVATION COMM.
SANTA FE

September 13, 1971

Mr. A. J. Loane
P.O. Drawer 239
Artesia, New Mexico 88210

Dear Sir:

The Empire South Deep unit agreement, Eddy County, New Mexico, filed by you in behalf of Midwest Oil Corporation was approved on September 13, 1971. This agreement has been designated No. 14-08-0001-11591 and is effective as of September 13, 1971.

Enclosed is one copy of the approved unit agreement. We request that you furnish the New Mexico Oil Conservation Commission and all other interested principals with appropriate evidence of this approval.

Sincerely yours,

N. O. FREDERICK
Regional Oil and Gas Supervisor

cc:
Washington (w/cy approved appln.)
BLM, Santa Fe (w/cy approved appln.)
Artesia, (w/cy approved appln.)
BMC, Roswell (ltr. only)
NMOCC, Santa Fe (ltr. only)
Com. Pub. Lands, Santa Fe (ltr. only)



OIL CONSERVATION COMMISSION

STATE OF NEW MEXICO

P. O. BOX 2088 - SANTA FE

87501

August 25, 1971

GOVERNOR
BRUCE KING
CHAIRMAN

LAND COMMISSIONER
ALEX J. ARMIJO
MEMBER

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

Mr. A. J. Losee
Losee & Carson
Attorneys at Law
Post Office Drawer 239
Artesia, New Mexico 88210

Re: Case No. 4578

Order No. R-4185

Applicant:

Harvey E. Yates Company

Dear Sir:

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

Very truly yours,

A. L. PORTER, Jr.

Secretary-Director *ALP*

ALP/ir

Copy of order also sent to:

Hobbs OCC x

Artesia OCC x

Aztec OCC

Other Unit Division - State Land Office



TONEY ANAYA
GOVERNOR

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION

July 22, 1986

50 YEARS



1935 - 1985

POST OFFICE BOX 2088
STATE LAND OFFICE BUILDING
SANTA FE, NEW MEXICO 87501
(505) 827-5800

#41578

Amoco Production Company
P. O. Box 3092
Houston, Texas 77253

Attention: J. R. Barnett

Re: 1986 Plan of Development
Empire South Deep Unit
Eddy County, New Mexico

Gentlemen:

The above-referenced submittal has been approved by the New Mexico Oil Conservation Division effective this date. Such approval is contingent upon like approval by the New Mexico Commissioner of Public Lands and the Bureau of Land Management.

Sincerely,

ROY E. JOHNSON,
Senior Petroleum Geologist

REJ/dr

cc: Commissioner of Public Lands - Santa Fe
Bureau of Land Management - Albuquerque



United States Department of the Interior

BUREAU OF LAND MANAGEMENT

Box 1397, Roswell, New Mexico - 88201

3180 (005)

JUL 24 1986

Amoco Production Company
Attention: J. K. Barnett
501 Westlake Park Boulevard
P. O. Box 3092
Houston, TX 77255

Re: 1986 Plan of Development
Empire South Deep Unit
Eddy County, New Mexico

Gentlemen:

We are in receipt of your letter dated July 8, 1986 which describes your 1986 Plan of Development for the Empire South Deep Unit, Eddy County, New Mexico.

Such plan proposing no development drilling is approved effective this date for the period January 1, 1986 to December 31, 1986. Such plan is subject to like approval by the appropriate officials of the State of New Mexico.

Sincerely,

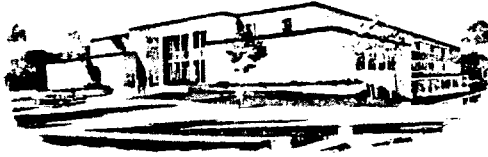
Orig. Sgd. Francis R. Cherry, Jr.

Francis R. Cherry, Jr.
District Manager

cc:

Commissioner of Public Lands
✓NMOCD, Santa Fe

State of New Mexico



JIM BACA
COMMISSIONER

Commissioner of Public Lands

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

July 31, 1986

Amoco Production Company
ATTENTION: Mr. J. R. Barnett
P. O. Box 3092
Houston, Texas 77253

Re: Empire South Deep Unit
1986 Plan of Development
Eddy County, New Mexico

Gentlemen:

The Commissioner of Public Lands has this date approved your 1986 Plan of Development for the Empire South Deep Unit Area, Eddy County, New Mexico. Such plan covering the period of January 1, 1986 to December 31, 1986 calls for the drilling of no wells.

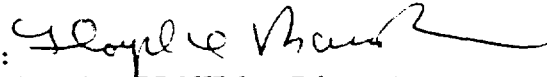
Our approval is subject to like approval by the New Mexico Oil Conservation Division and the Bureau of Land Management.

Enclosed is an approved copy for your files.

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

Very truly yours,

JIM BACA
COMMISSIONER OF PUBLIC LANDS

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

JB/FOP/pm
encls.

cc: OCD-Santa Fe, New Mexico

BLM-Roswell, New Mexico Attn: Mr. Armando Lopez



D- Unit letter

Amoco Production Company

Houston Region
501 WestLake Park Boulevard
Post Office Box 3092
Houston, Texas 77253
Southwest Texas—
Eastern New Mexico Division

J. R. Barnett
Division Production
Manager

July 8, 1986

File: JWA-416-2857

Re: 1986 Plan of Development
Empire South Deep Unit
Eddy County, New Mexico

*OK
7-22-86*

United States Department of the Interior
Bureau of Land Management
Roswell District Office
P. O. Box 1397
Roswell, New Mexico 88201

Commissioner of Public Lands
State of New Mexico
P. O. Drawer 1148
Santa Fe, New Mexico 87501

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

THIS COPY FOR →

Gentlemen:

Amoco Production Company, as operator of the Empire South Deep Unit, Eddy County, New Mexico, requests that a 1986 Plan of Development be approved, which calls for no development drilling for the year.

Additional development of the Empire South Deep Unit will continue to be evaluated in a prudent manner. Please find attached a Unit map with individual well status, the 1985 Unit production by month, and individual well decline curves.

We respectfully ask your approval of the foregoing plan.

Yours very truly,

J. R. Barnett

KNC/snj

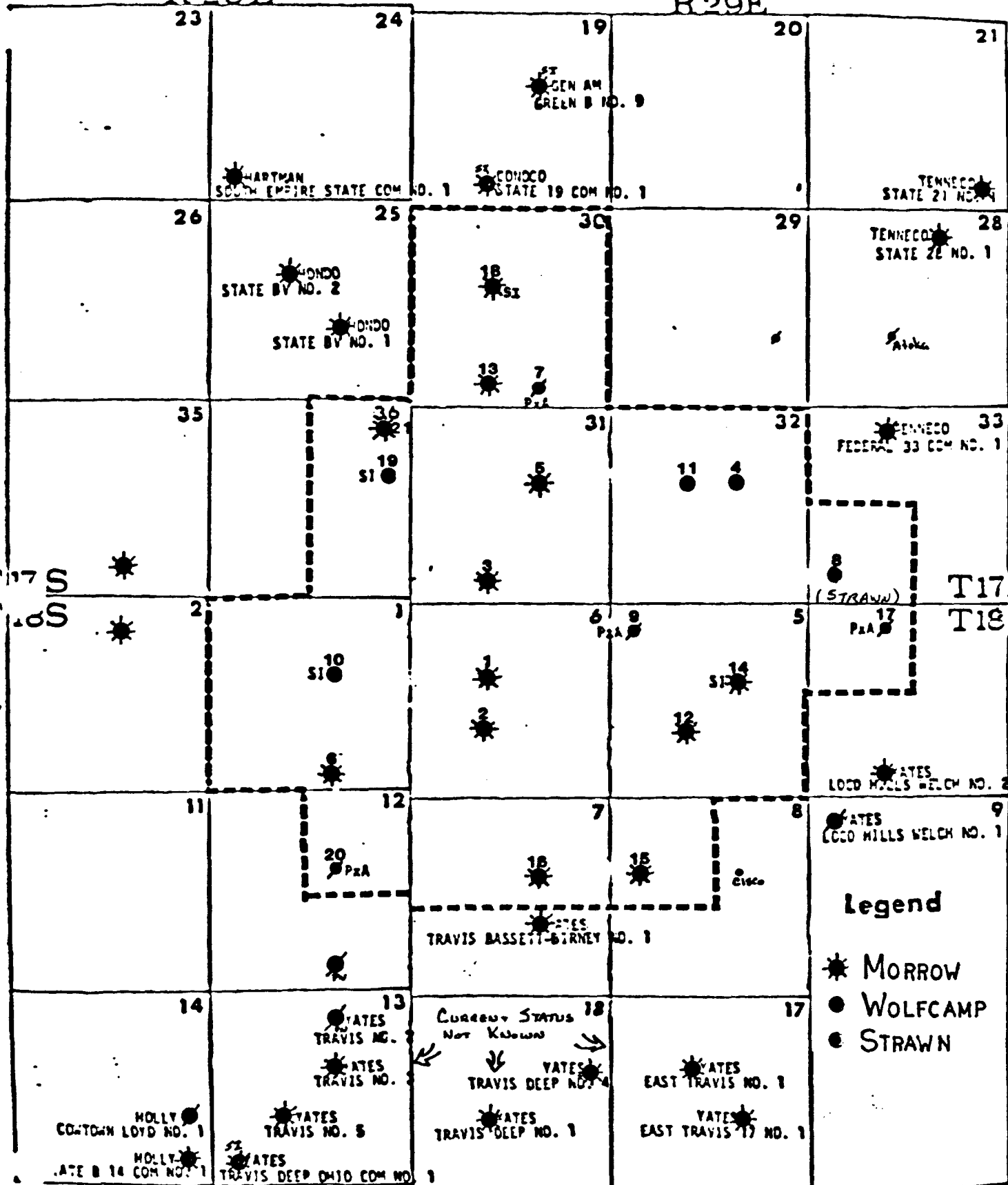
Attachment

EMPIRE SOUTH DEEP UNIT

Eddy County, New Mexico

R 28E

R 29E



Legend

- ☼ MORROW
- WOLFCAMP
- ◉ STRAWN

R 28E

R 29E

EMPIRE SOUTH DEEP UNIT
EDDY COUNTY, NEW MEXICO

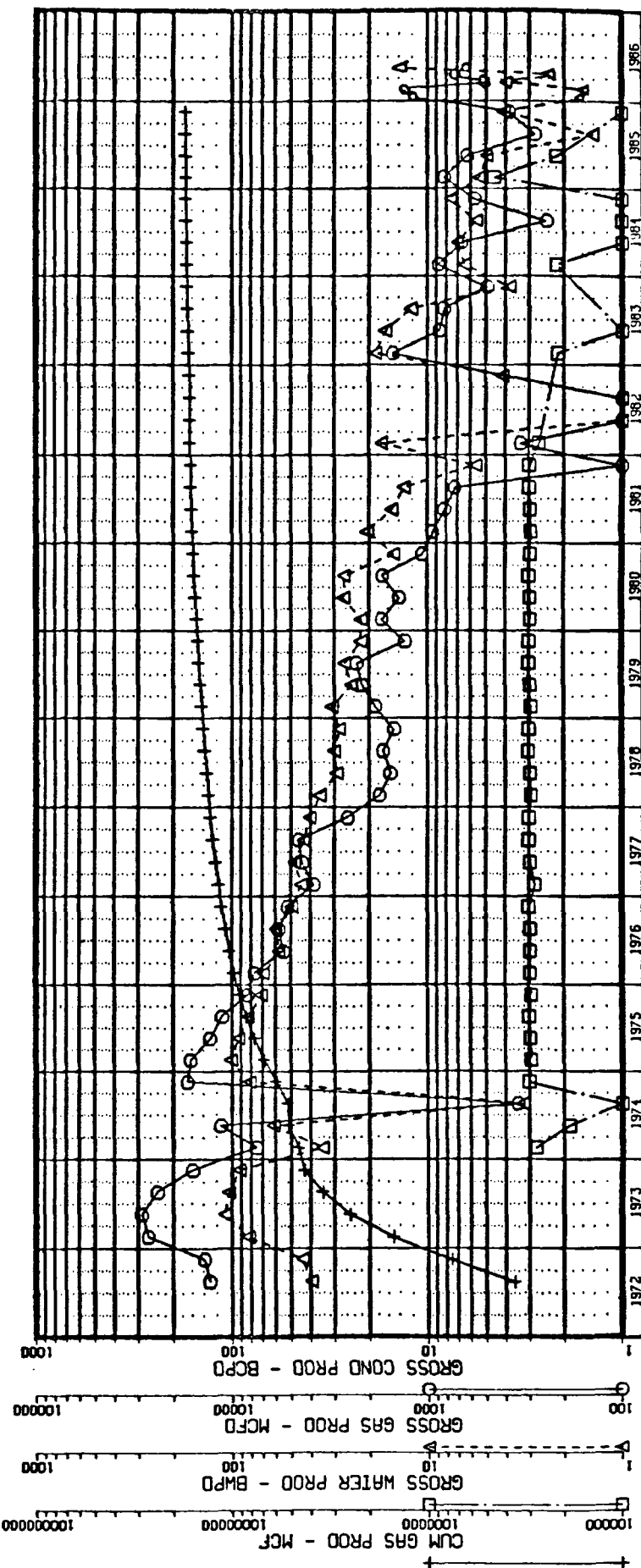
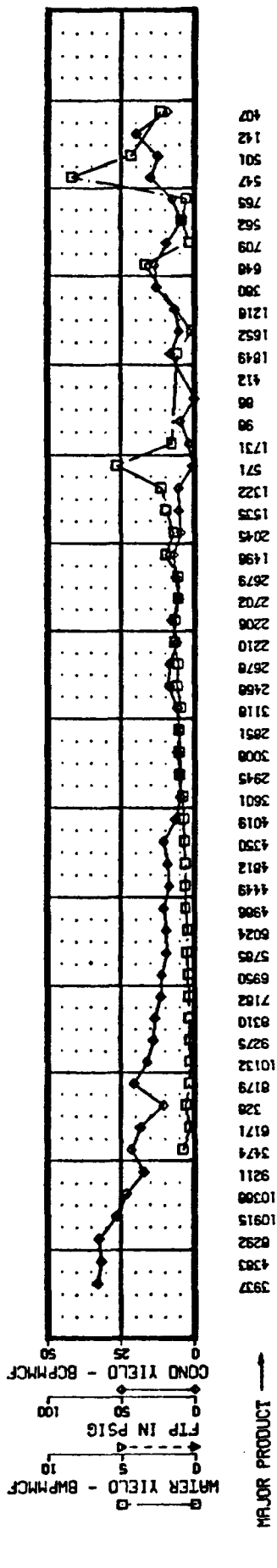
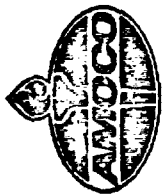
<u>DATE</u>	<u>GAS (MCF)</u>	<u>CONDENSATE/OIL (BBL)</u>
1/85	242,182	1,999
2/85	197,593	1,713
3/85	168,035	1,587
4/85	143,629	1,371
5/85	226,402	1,901
6/85	205,089	1,178
7/85	211,379	1,618
8/85	125,533	1,354
9/85	96,782	891
10/85	190,683	1,757
11/85	161,541	1,405
12/85	156,990	1,673
TOTAL	2,125,838	18,447

INDUSTRY PRODUCTION DATA RATE-TIME PLOTS

API NO: 300152049200 GENID: 4WG01032

GAS

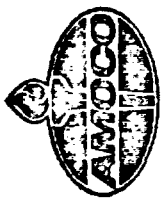
WELL: EMPIRE S DEEP UNIT
 FIELD: EMPIRE MORROW, SOUTH (GAS)
 OPERATOR: AMOCO PRODUCTION CO
 STATE: NM 30 COUNTY: EDDY
 FIRST PROD 72 09 LAST PROD 85 12
 REQUESTOR: RITZ -21JMJR
 LOCATION: HOUSTON
 PERFS: 10716 - 10784
 LOCATION: 06F018S029E
 PM 008026724 RESERVOIR: PM
 COMP DATE: 71 11
 015 TOT. GAS CUM: 17,390,944
 TOT. OIL CUM: 254,073



1986-07-01

TIME

REPORT NUMBER 321



INDUSTRY PRODUCTION DATA RATE-TIME PLOTS

API NO: 300152058400 GENID: 4WG01033

LOCATION: 06K018S029E

000002

WELL: EMPIRE S DEEP UNIT

FIELD: EMPIRE MORROW, SOUTH (GAS) PM 008028724 RESERVOIR: PM

OPERATOR: AMOCO PRODUCTION CO 019822

STATE: NM 30 COUNTY: EDDY

COMP DATE: 72 08

TOT. GAS CUM: 1,462,025

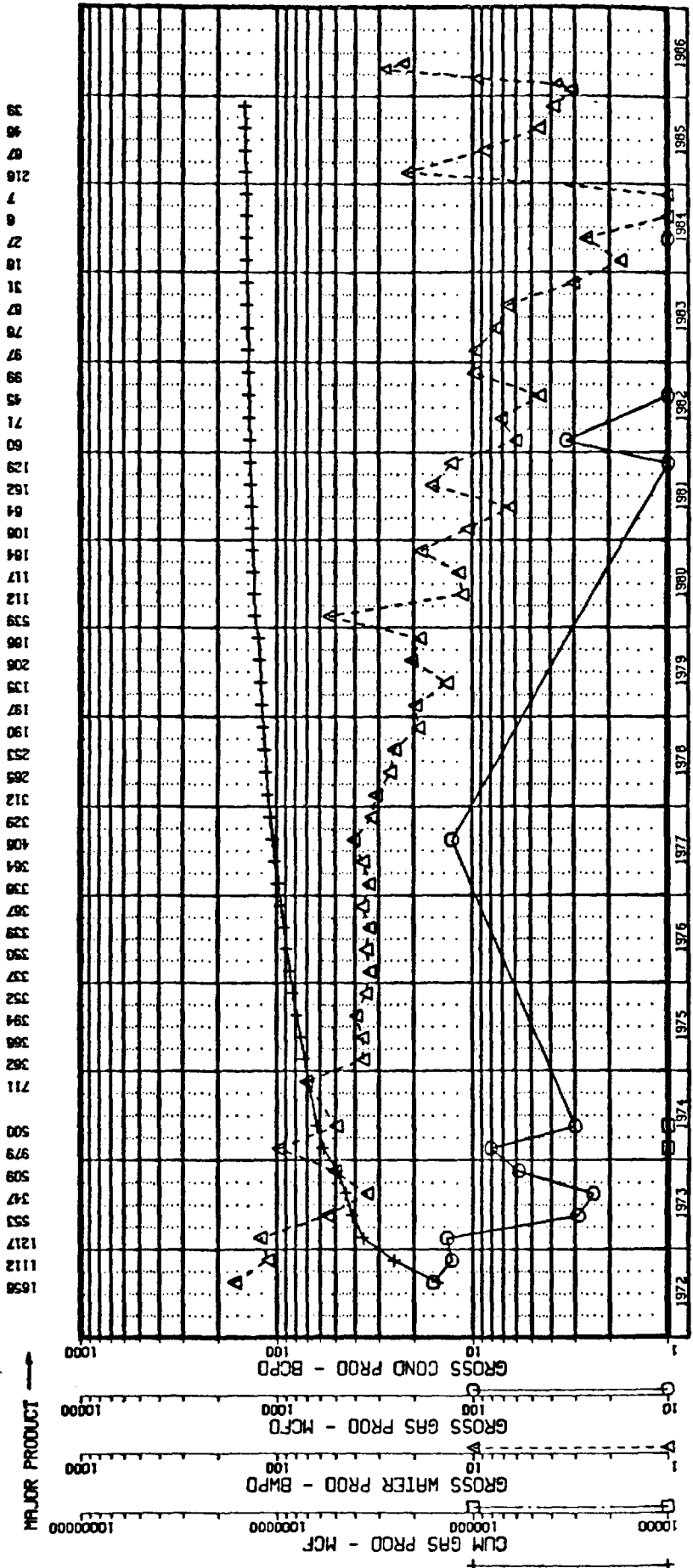
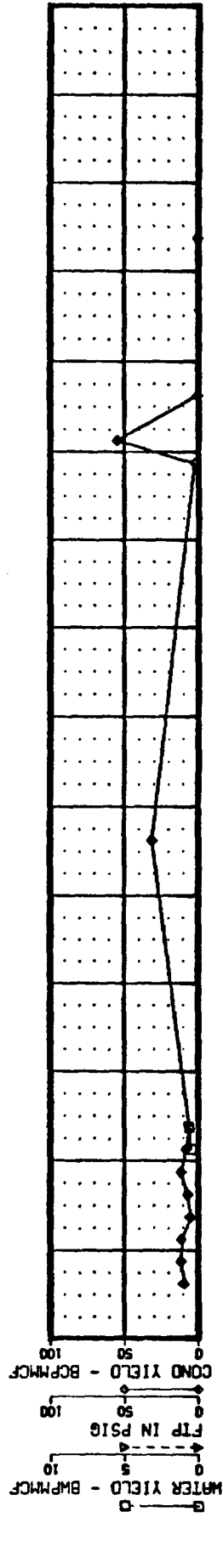
FIRST PROD 72 09 LAST PROD 85 12

TOT. OIL CUM: 7,401

REQUESTOR: RITZ -21JMJR

PERFS: 10874 - 10890

LOCATION: HOUSTON



1986-07-01

TIME

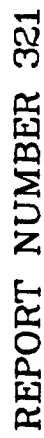
REPORT NUMBER 321

DISPLA VER 8.2

PERFS:

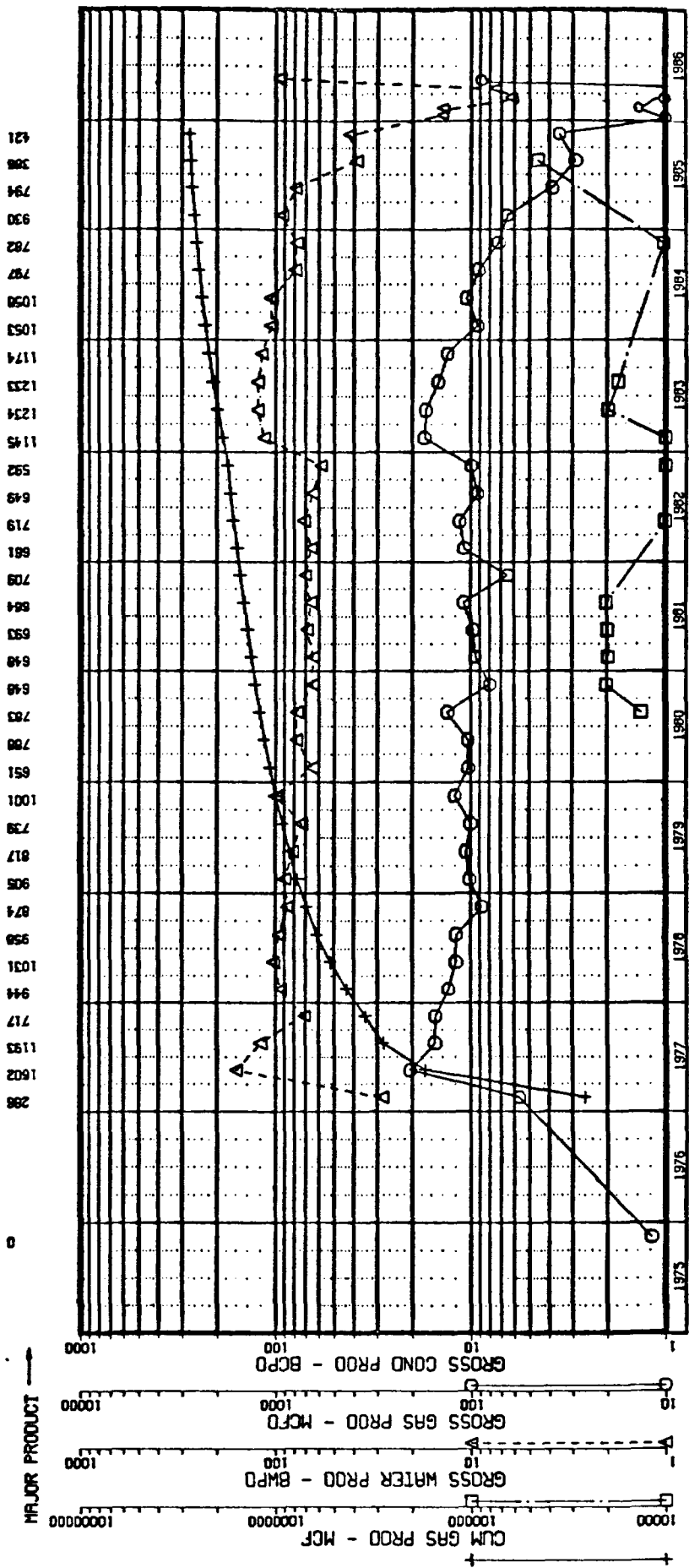
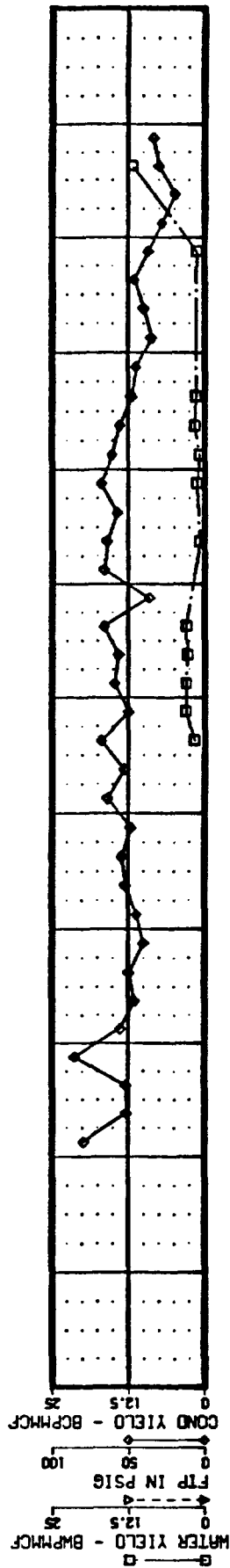
TOT. GAS CUM: 1.785.050

TOT. GAS CUM: 1.785.050



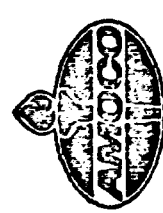
INDUSTRY PRODUCTION DATA RATE-TIME PLOTS

GAS WELL: EMPIRE S DEEP UNIT LOCATION: 010018S028E
WELL: EMPIRE MORROW, SOUTH (GAS) PM 008028724 RESERVOIR: PM
OPERATOR: AMOCO PRODUCTION CO 019922 COMP DATE: 75 09
STATE: NM 30 COUNTY: EDDY 015 TOT. GAS CUM: 2,761,399
FIRST PROD: 75 10 LAST PROD: 85 12 TOT. OIL CUM: 34,903
REQUESTOR: RITZ -21JMJR LOCATION: HOUSTON PERFS: 10831 - 10857



1986-07-01

REPORT NUMBER 321



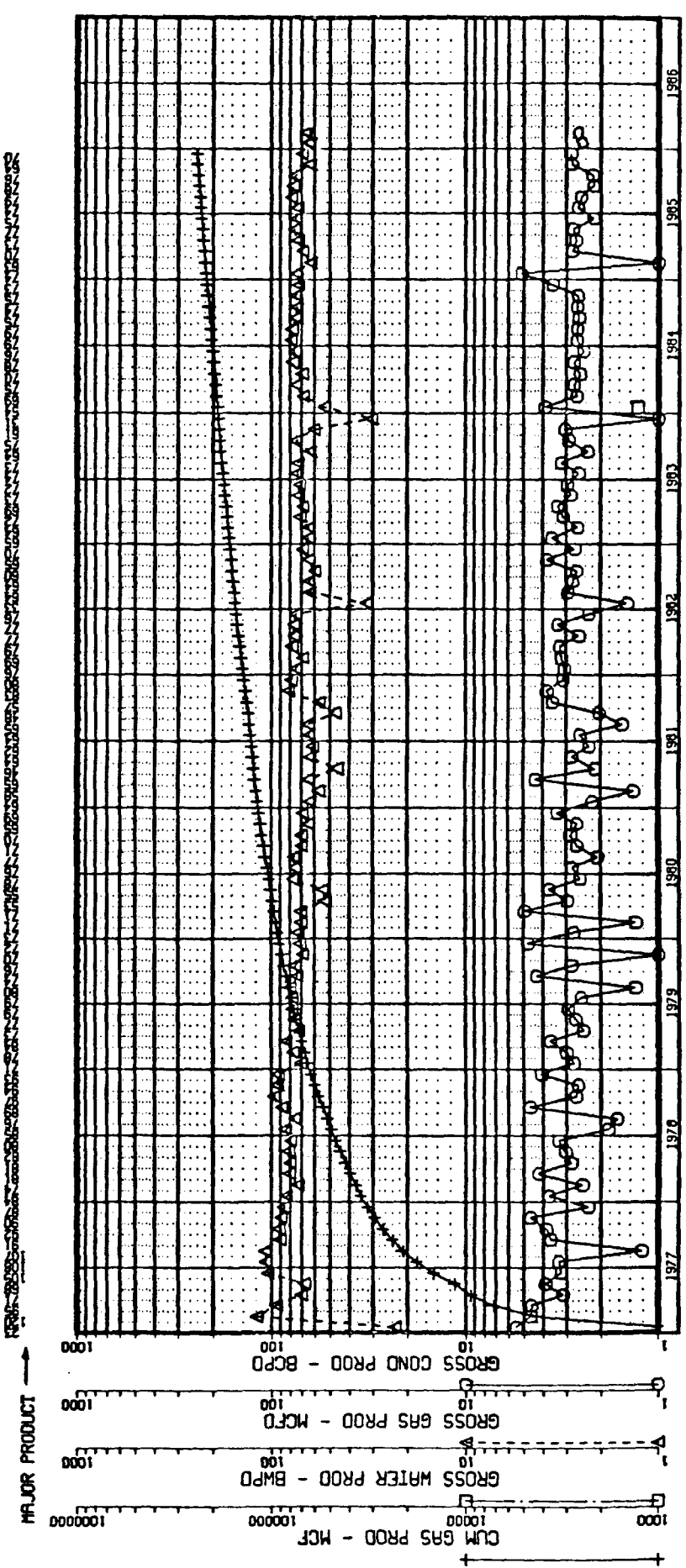
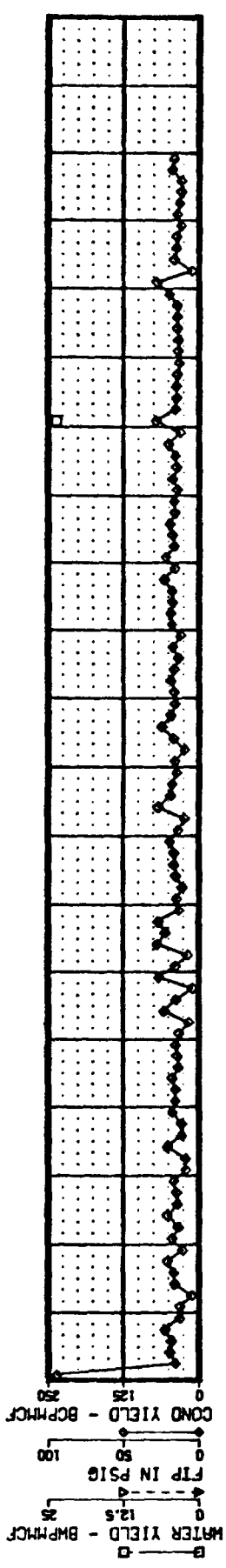
INDUSTRY PRODUCTION DATA RATE-TIME PLOTS

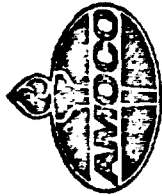
API NO: 300152172500 GENID: 4WGO0807

GAS

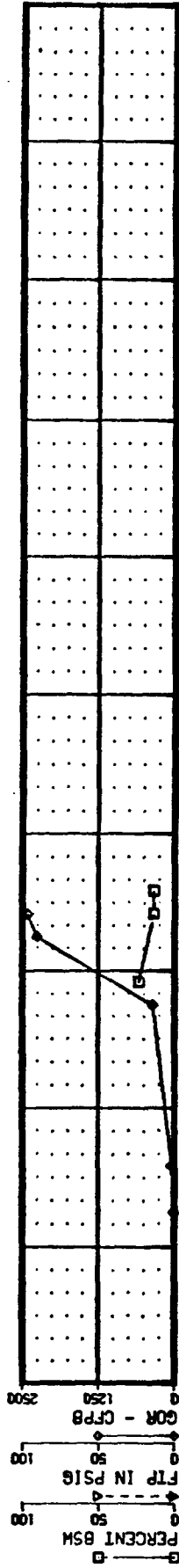
WELL: EMPIRE S DEEP UNIT
FIELD: GRAYBURG STRAWN (GAS)
OPERATOR: AMOCO PRODUCTION CO
STATE: NM 30 COUNTY: EDDY
FIRST PROD 77 01 LAST PROD 85 12
REQUESTOR: RITZ -21JMJR LOCATION: HOUSTON
PERFS: 10160 - 10177

000008
PS 008032061 RESERVOIR: PS
019822
COMP DATE
015 TOT. GAS CUM: 240,962
TOT. OIL CUM: 9,577

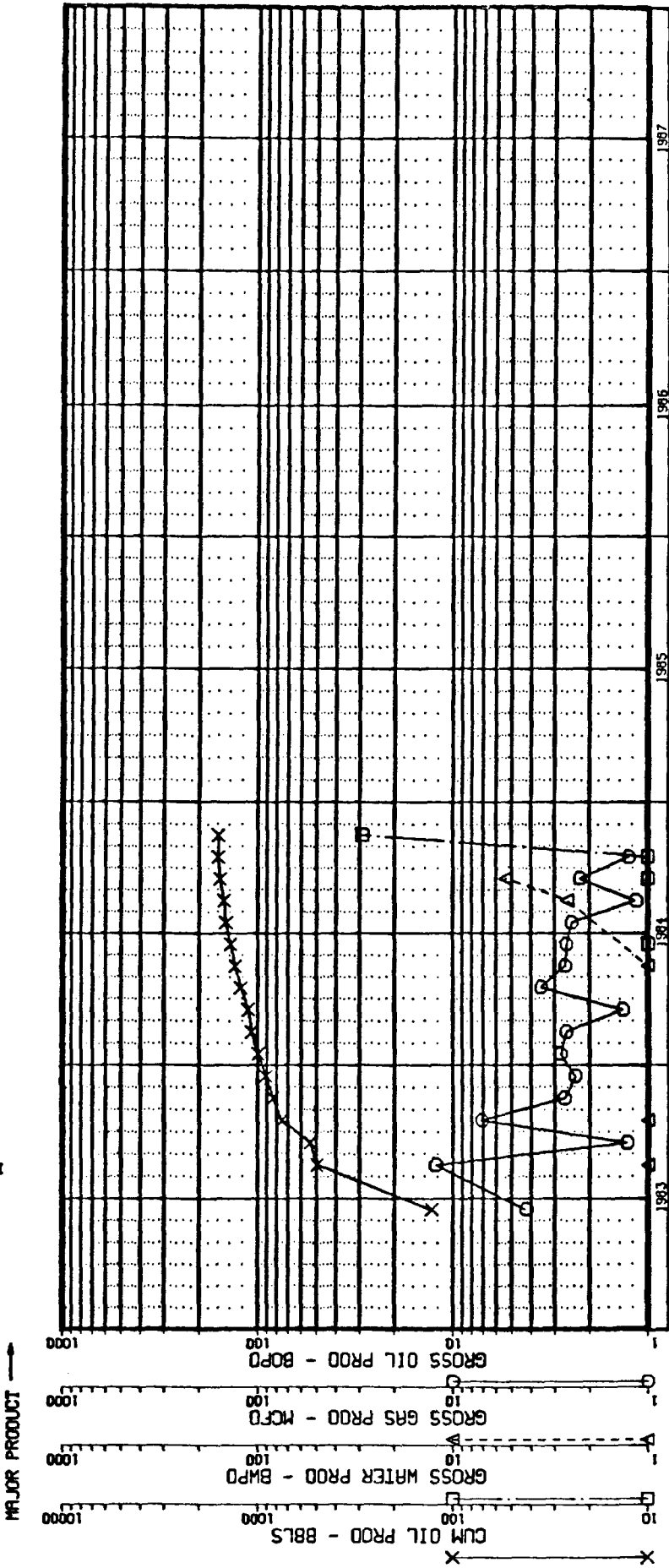




INDUSTRY PRODUCTION DATA RATE-TIME PLOTS
 API NO: 300150000000 GENID: 4W029130
 LOCATION: 1G18S 28E
 WELL: EMPIRE S DEEP UNIT 000010 WC 008026824 RESERVOIR: WC
 FIELD: EMPIRE WOLF CAMP, SOUTH
 OPERATOR: AMOCO PRODUCTION CO 018922
 STATE NM 30 COUNTY: EDDY
 FIRST PROD LAST PROD 84 10
 REQUESTOR: RITZ -21JMJR LOCATION: HOUSTON
 015 TOT. OIL CUM: 1,604
 TOT. GAS CUM: 284
 PERFS:



MAJOR PRODUCT



1986-07-01

TIME

REPORT NUMBER 321

INDUSTRY PRODUCTION DATA RATE-TIME PLOTS

API NO: 300152190800 GENID: 4W008372

LOCATION: 32F7S 29E

000011

WELL: EMPIRE S DEEP UNIT

WC 008026924 RESERVOIR: WC

FIELD: EMPIRE WOLFCAMP, SOUTH

COMP DATE: 77 02

OPERATOR: AMOCO PRODUCTION CO

TOT. OIL CUM: 58,270

STATE: NM 30 COUNTY: EDDY

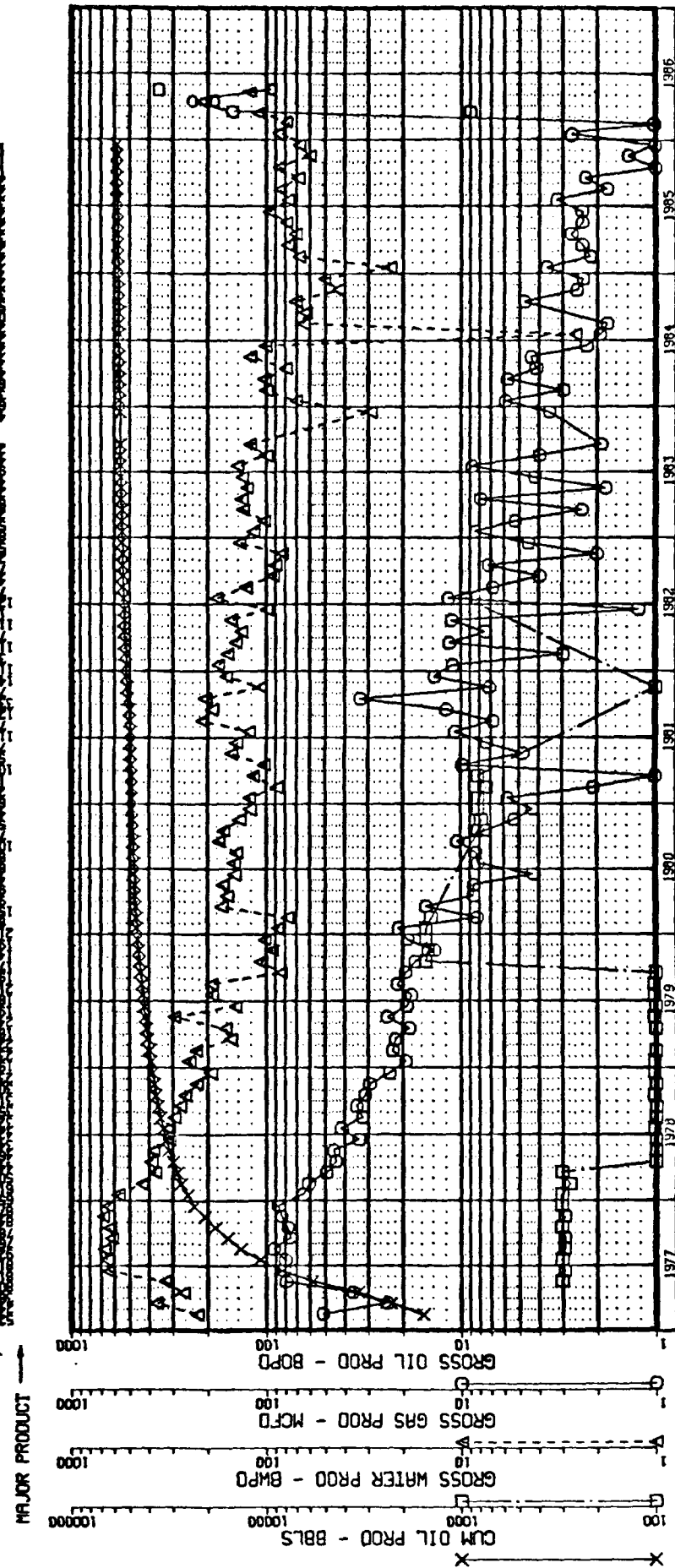
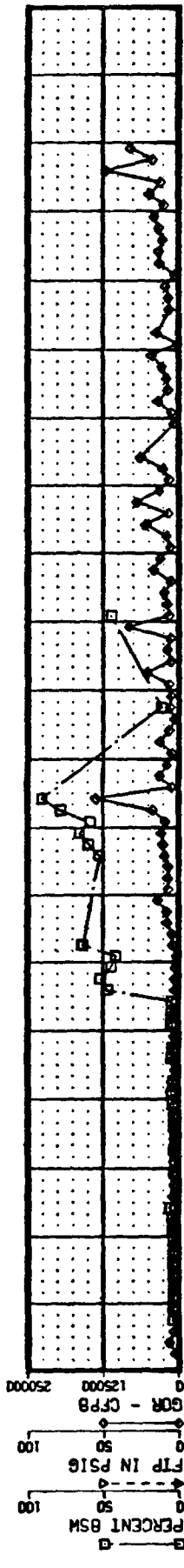
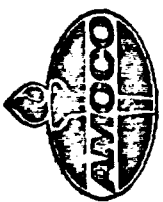
TOT. GAS CUM: 598,082

FIRST PROD: LAST PROD 85 12

PERFS:

LOCATION: HOUSTON

REQUESTOR: RITZ -21JMJR



1986-07-01

TIME

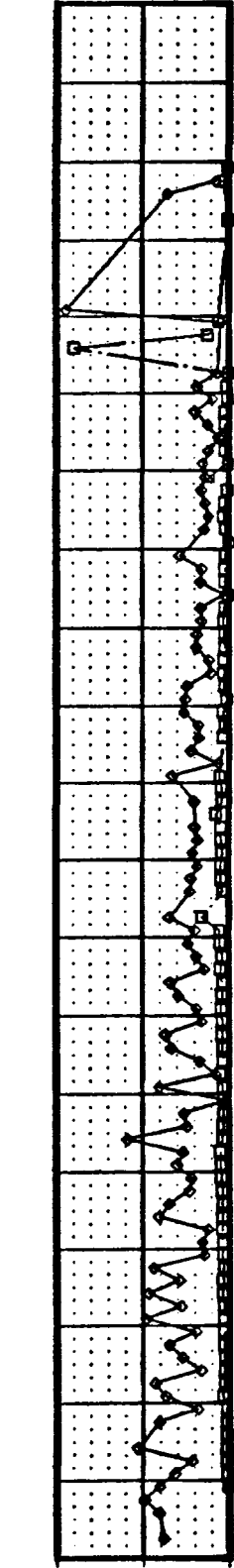
REPORT NUMBER 321

INDUSTRY PRODUCTION DATA RATE-TIME PLOTS

GAS
 WELL: EMPIRE S DEEP UNIT
 FIELD: EMPIRE MORROW, SOUTH (GAS)
 OPERATOR: AMOCO PRODUCTION CO
 STATE: NM 30 COUNTY: EDDY
 FIRST PROD: 77 02 LAST PROD: 85 12
 REQUESTOR: RITZ -21JMJR LOCATION: HOUSTON PERFS: 10842 - 10900
 API NO: 300152194700 GENID: 4WGO1031
 LOCATION: 05K018S029E
 COMP DATE: 77 01
 TOT. GAS CUM: 1,958,755
 TOT. OIL CUM: 23,274

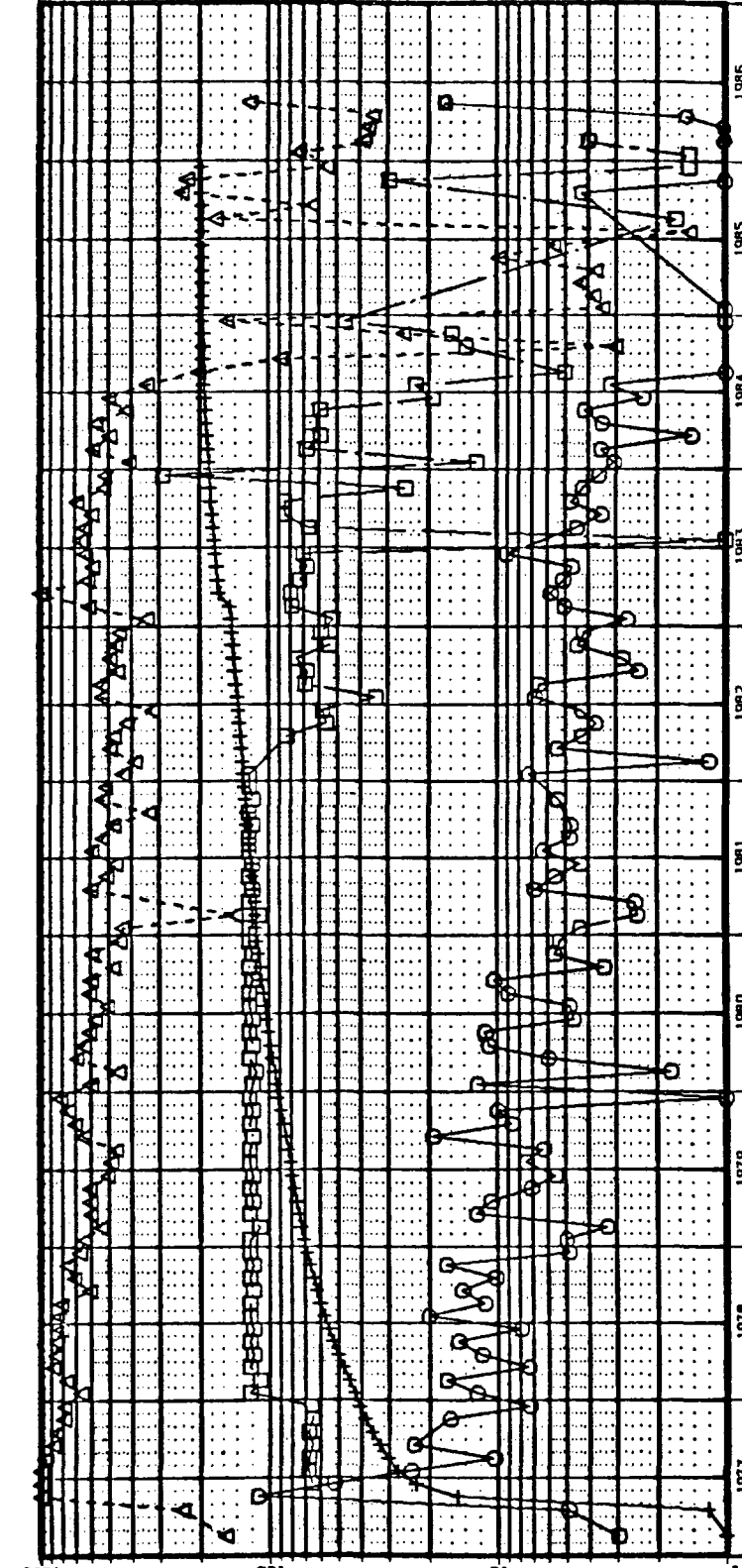


COND YIELD - BCFMCF
 FIP IN PSIG
 WATER YIELD - BCFMCF



MAJOR PRODUCT

CUM GAS PROD - MCF
 GROSS WATER PROD - BWP
 GROSS GAS PROD - MCFD
 GROSS COND PROD - BCFD



1986-07-01

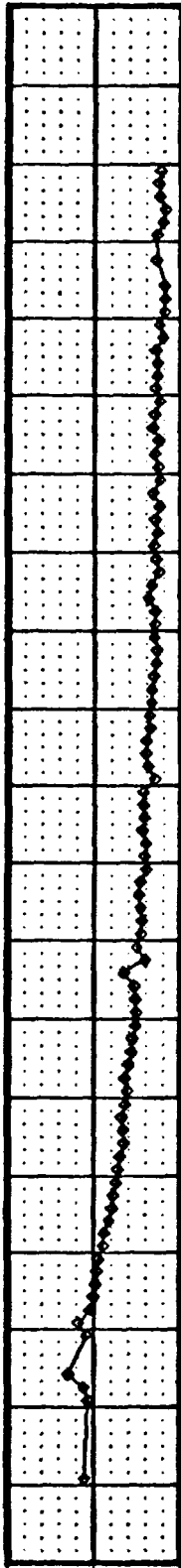
TIME

REPORT NUMBER 321



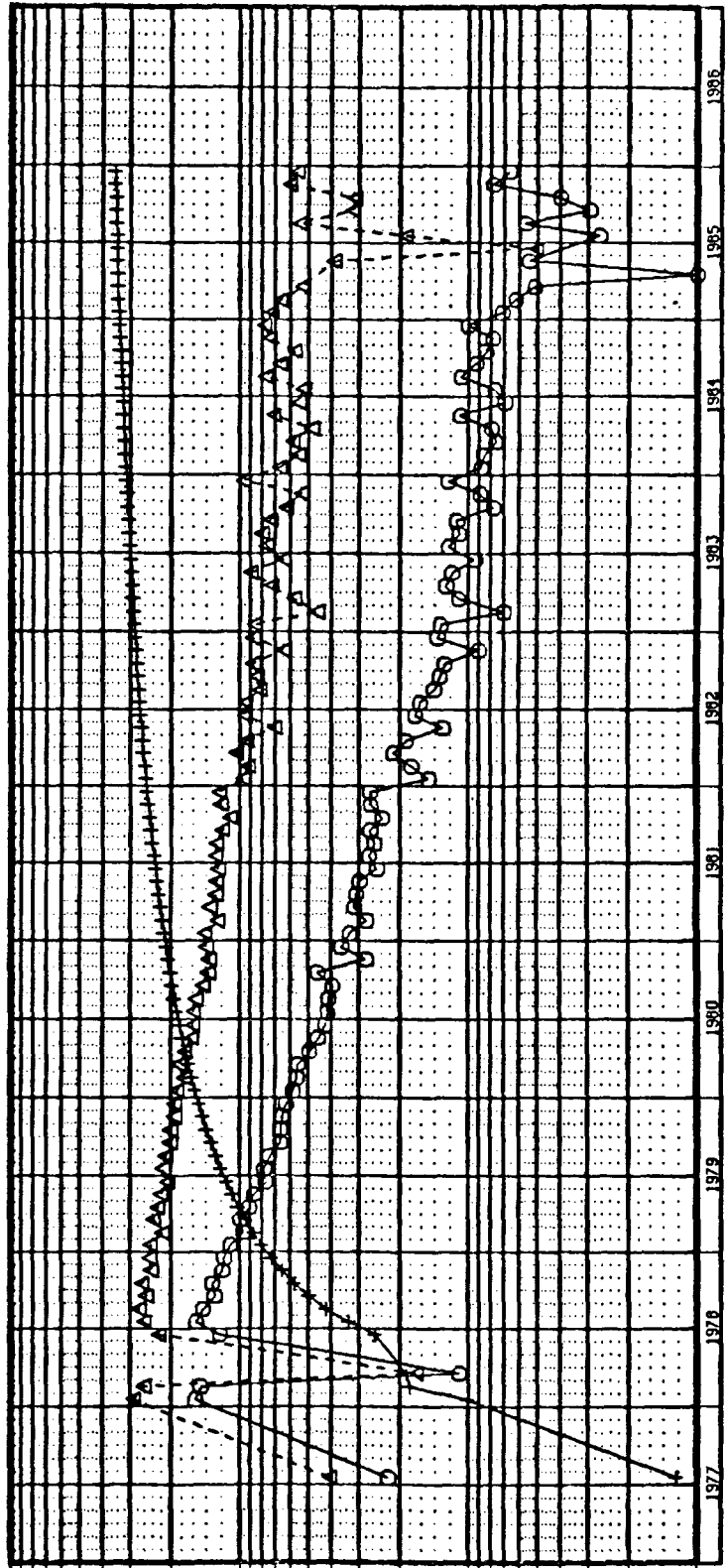
GAS
 WELL: EMPIRE S DEEP UNIT
 FIELD: EMPIRE MORROW, SOUTH (GAS)
 OPERATOR: YATES HARVEY E CO INC
 STATE NM 30 COUNTY: EDDY
 FIRST PROD 77 07 LAST PROD 85 12
 REQUESTOR: RITZ -21JMJR
 LOCATION: HOUSTON
 LOCATION: 30N017S029E
 COMP DATE: 015
 TOT. GAS CUM: 3,525,307
 TOT. OIL CUM: 108,984
 PERFS:

COND YIELD - BCPH/MCF
 TFP IN PSIG
 WATER YIELD - BWP/MCF



MAJOR PRODUCT

CUM GAS PROD - MCF
 GROSS WATER PROD - BWPD
 GROSS GAS PROD - MCFD
 GROSS COND PROD - BCPD



1986-07-01

TIME

REPORT NUMBER 321

INDUSTRY PRODUCTION DATA RATE-TIME PLOTS

GAS

WELL: EMPIRE S DEEP UNIT

FIELD: EMPIRE MORROW, SOUTH (GAS)

OPERATOR: AMOCO PRODUCTION CO 019922

STATE NM 30 COUNTY: EDDY

FIRST PROD 77 08 LAST PROD 81 03

REQUESTOR: RITZ -21JMJR

000014

PM

019922

015

TOT. OIL CUM:

PERPS:

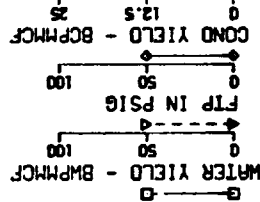
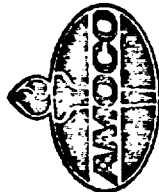
LOCATION: 05G018S029E

008026724 RESERVOIR: PM

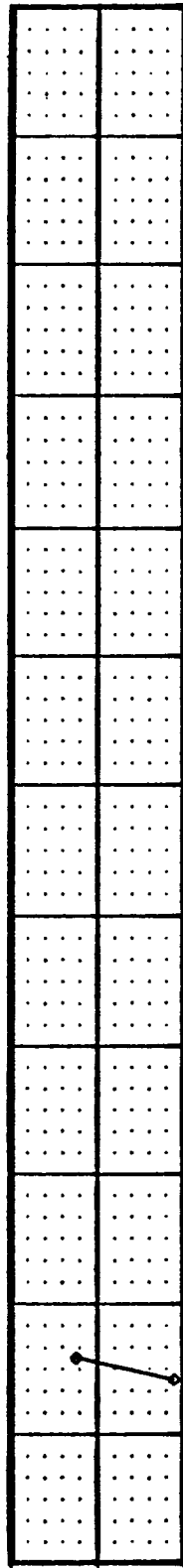
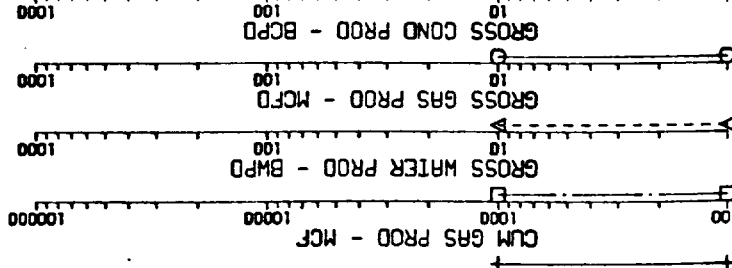
COMP DATE:

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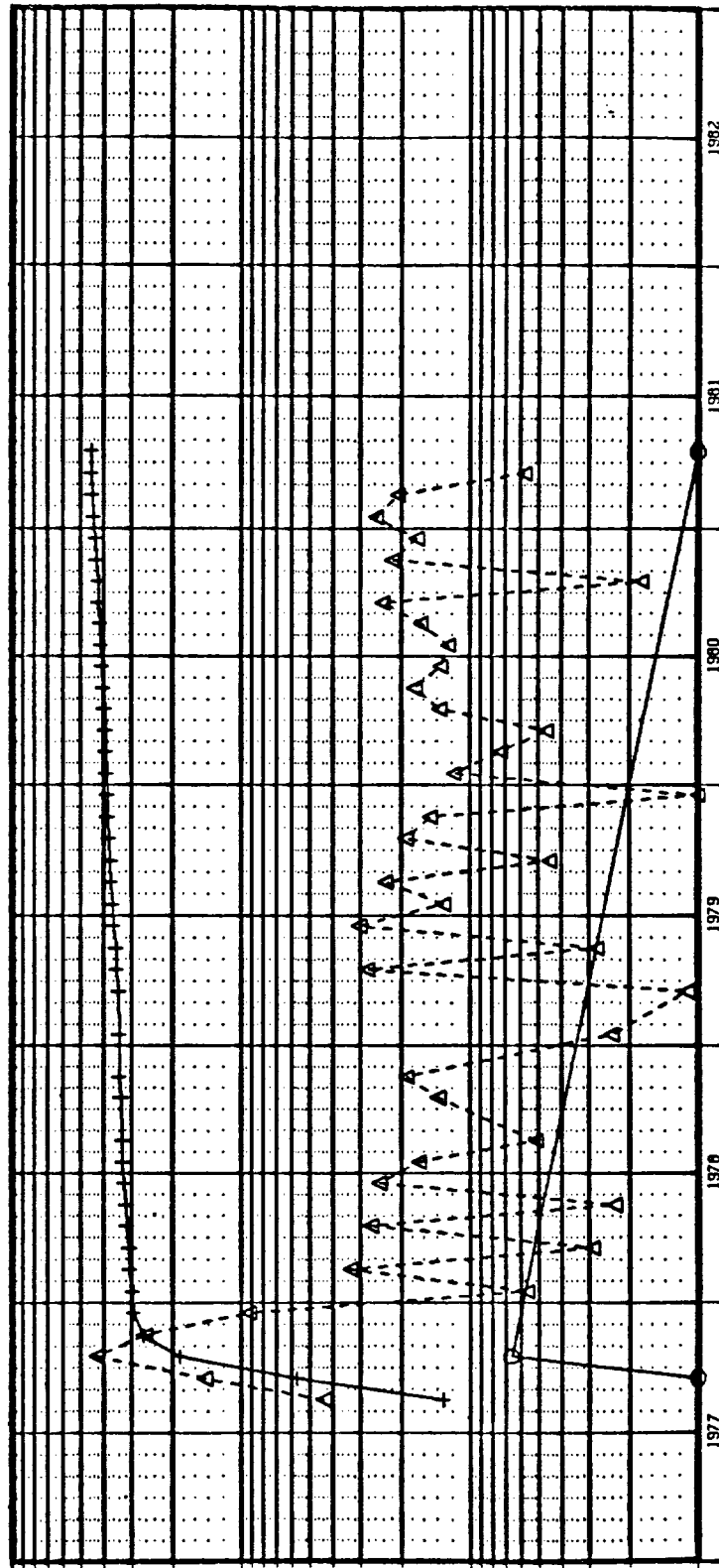
202



MAJOR PRODUCT —



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6	19	14	5	17	25	27	3	34	6	93	64	28	45	44
21	2	14	5	17	25	27	3	34	6	93	64	28	45	44
28	19	14	5	17	25	27	3	34	6	93	64	28	45	44
17	2	14	5	17	25	27	3	34	6	93	64	28	45	44
22	19	14	5	17	25	27	3	34	6	93	64	28	45	44
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24	19	14	5	17	25	27	3	34	6	93	64	28	45	44
16	2	14	5	17	25	27	3	34	6	93	64	28	45	44
12	19	14	5	17	25	27	3	34	6	93	64	28	45	44
13	2	14	5	17	25	27	3	34	6	93	64	28	45	44
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13	19	14	5	17	25	27	3	34	6	93	64	28	45	44
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3	19	14	5	17	25	27	3	34	6	93	64	28	45	44
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1986-07-01

TIME

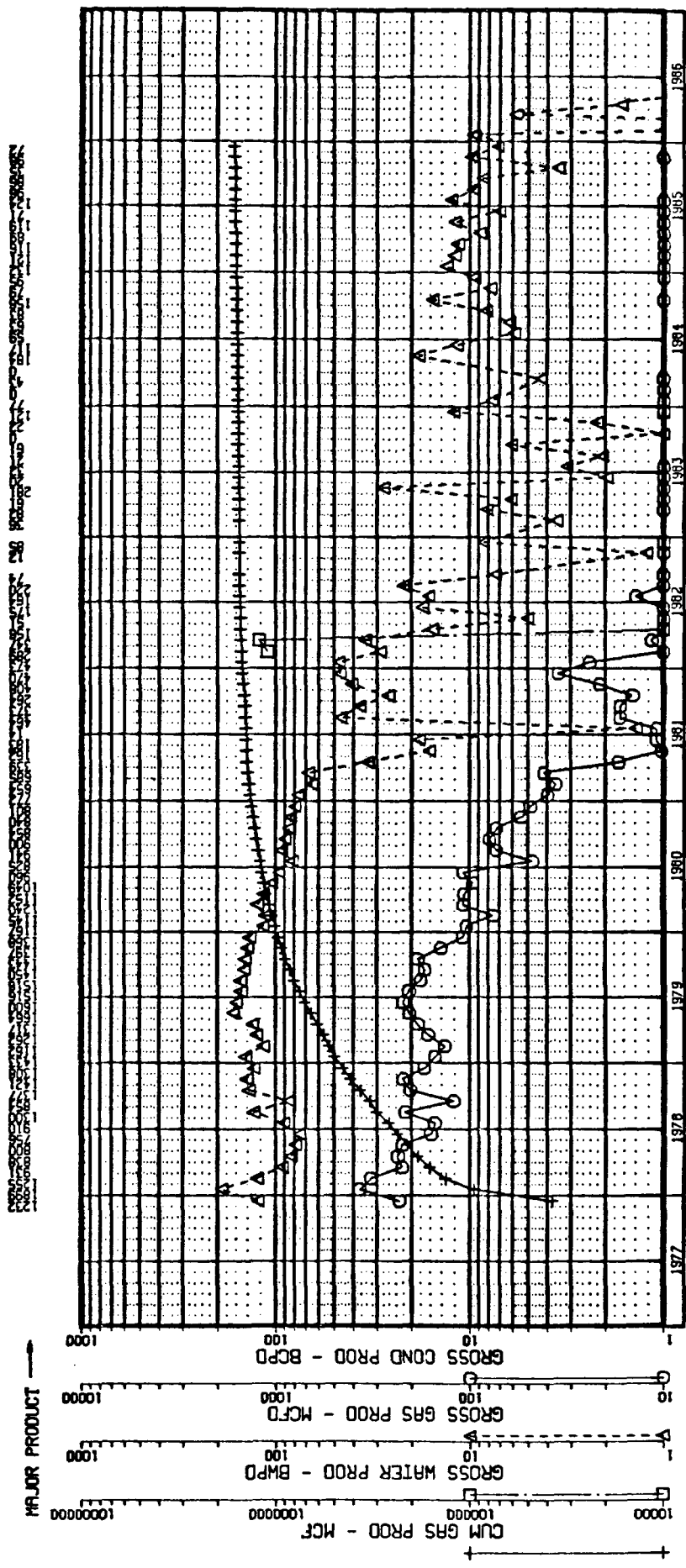
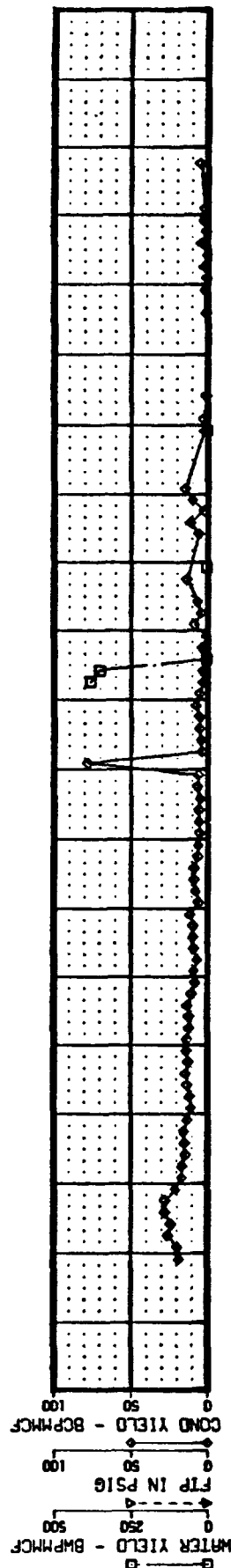
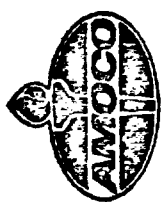
REPORT NUMBER 321

INDUSTRY PRODUCTION DATA RATE-TIME PLOTS

GENID: 4WG01038

GAS
WELL: EMPIRE S DEEP UNIT
FIELD: EMPIRE MORROW, SOUTH (GAS)
OPERATOR: AMOCO PRODUCTION CO
STATE NM 30 COUNTY: EDDY
FIRST PROD 77 12 LAST PROD 85 12
REQUESTOR: RITZ -2IJMJR
LOCATION: HOUSTON
PERFS: 10854 - 10880

API NO: 30015223600
LOCATION: 08E018S029E
PM 008026724 RESERVOIR: PM
COMP DATE: 77 11
TOT. GAS CUM: 1,628,538
TOT. OIL CUM: 19,111



1986-07-01

TIME

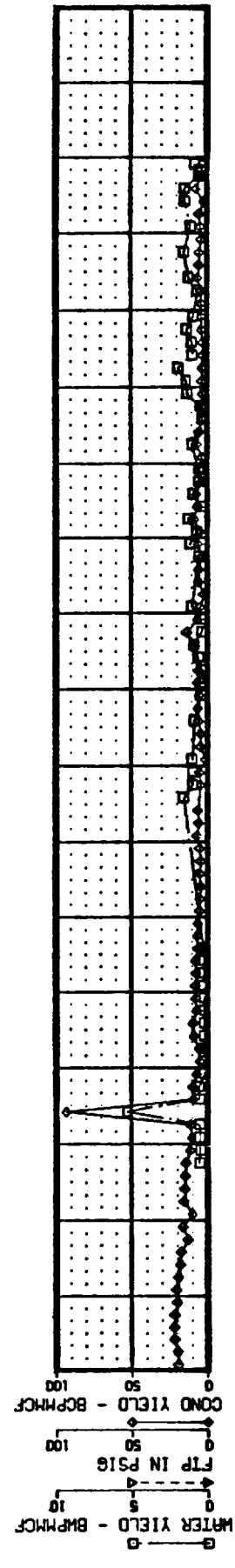
REPORT NUMBER 321

INDUSTRY PRODUCTION DATA RATE-TIME PLOTS

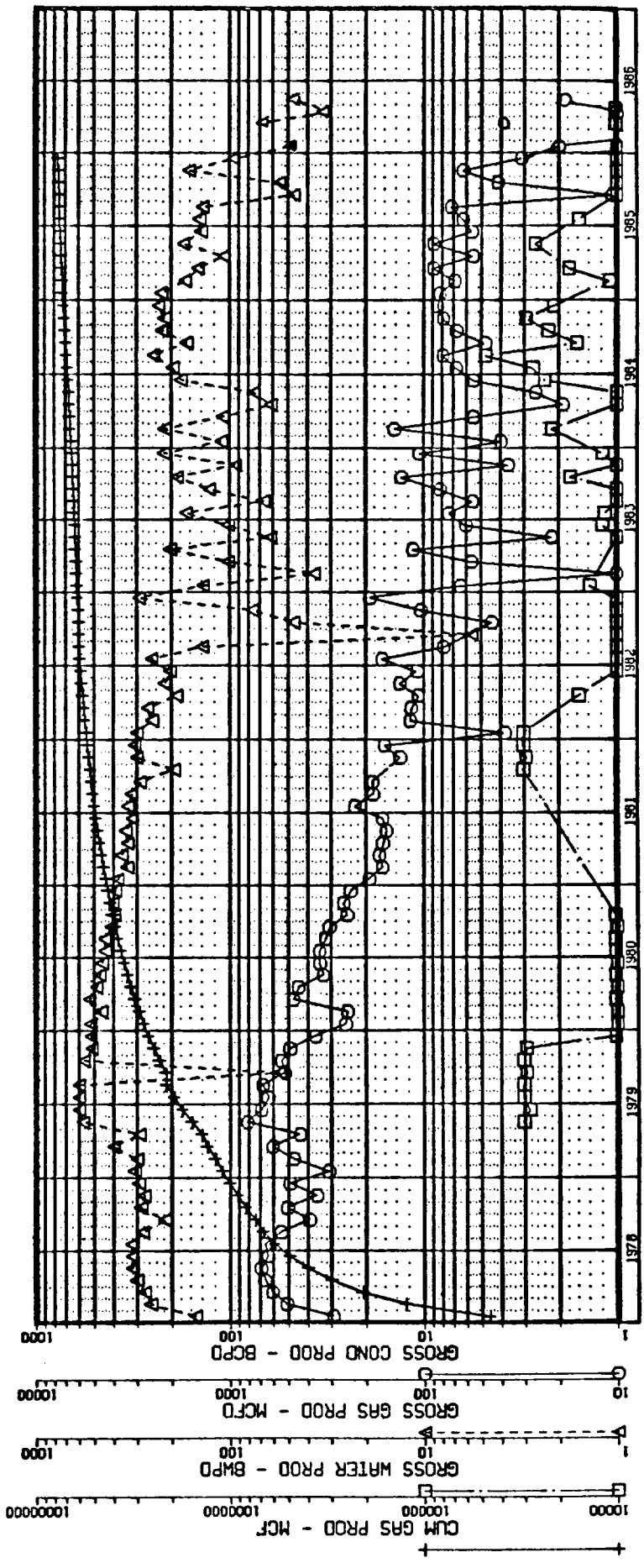
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GAS

WELL: EMPIRE S DEEP UNIT
 FIELD: EMPIRE MORROW, SOUTH (GAS)
 OPERATOR: AMOCO PRODUCTION CO
 STATE: NM 30 COUNTY: EDDY
 FIRST PROD 78 01 LAST PROD 85 12
 REQUESTOR: RITZ -21JMJR
 LOCATION: HOUSTON
 PERFS:
 LOCATION: 07G018S029E
 RESERVOIR: PM
 COMP DATE
 015 TOT. GAS CUM: 7,687,773
 TOT. OIL CUM: 67,508

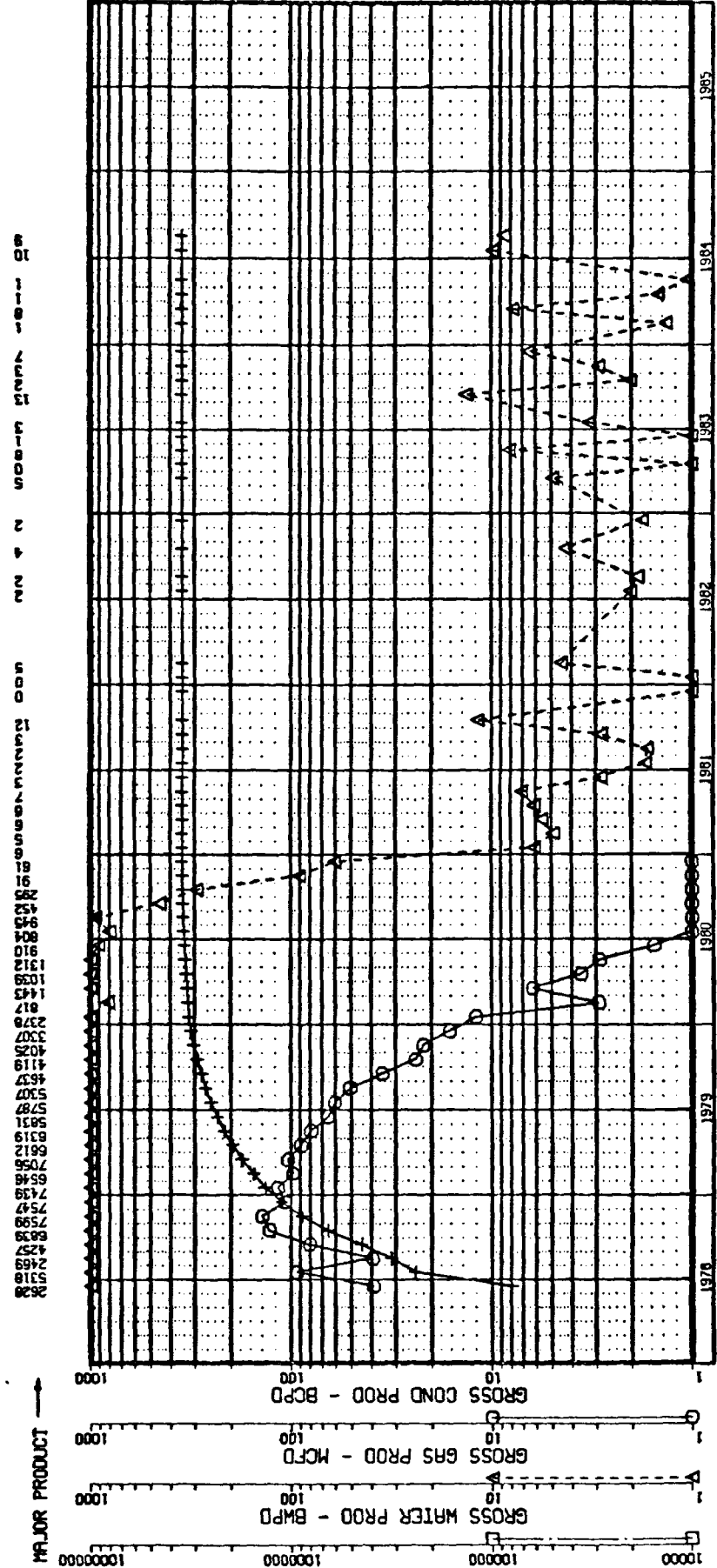
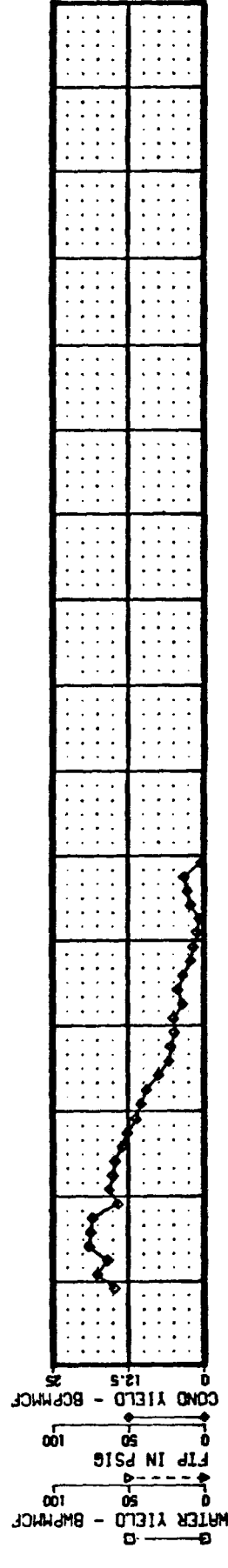
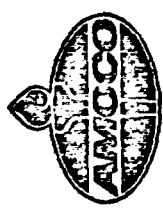


MAJOR PRODUCT
 1978 1979 1980 1981 1982 1983 1984 1985 1986



INDUSTRY PRODUCTION DATA RATE-TIME PLOTS

GAS
WELL: SOUTH EMPIRE DEEP UNIT
FIELD: EMPIRE MORROW, SOUTH (GAS)
OPERATOR: YATES HARVEY E CO INC
STATE: NM 30
COUNTY: EDDY
FIRST PROD: 78 06
LAST PROD: 84 08
REQUESTOR: RITZ
LOCATION: HOUSTON
PERFS:
API NO: 300152240000
LOCATION: 30F017S029E
RESERVOIR: PM
COMP DATE: 015
TOT. GAS CUM: 3,475,615
TOT. OIL CUM: 43,306



1986-07-01

TIME

REPORT NUMBER 321

INDUSTRY PRODUCTION DATA RATE-TIME PLOTS

API NO: 30015000000 GENID: 4W007914

OIL

WELL: EMPIRE S DEEP UNIT 000019 LOCATION: 36H17S 28E

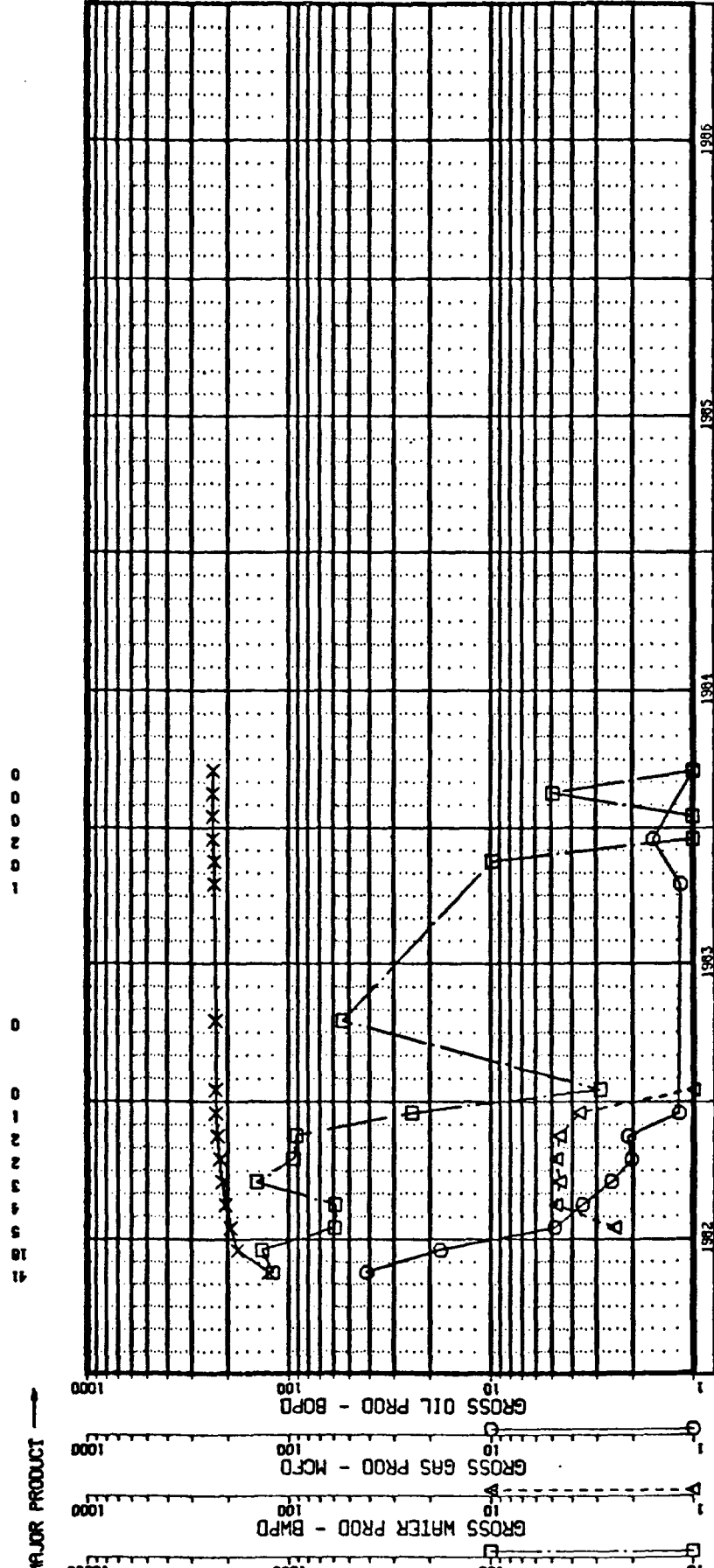
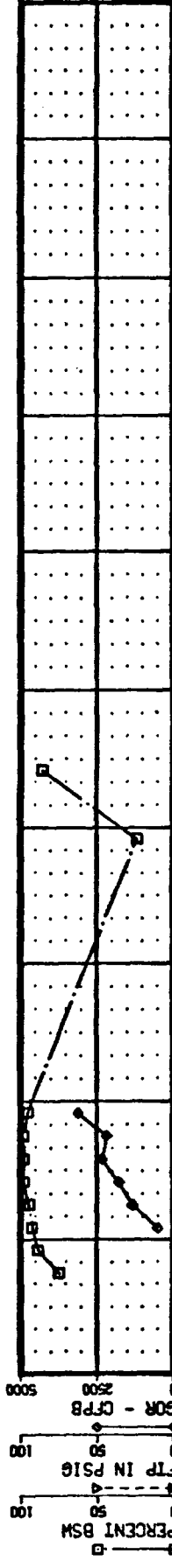
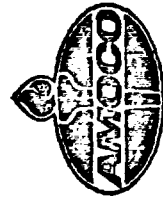
FIELD: EMPIRE WOLF CAMP, SOUTH WC 008026824 RESERVOIR: WC

OPERATOR: AMOCO PRODUCTION CO 018922

STATE: NM 30 COUNTY: EDDY 015 TOT. OIL CUM: 2,374

FIRST PROD LAST PROD 84 03 TOT. GAS CUM: 762

REQUESTOR: RITZ -21JMJR LOCATION: HOUSTON PERFS:



1986-07-01

TIME

REPORT NUMBER 321

INDUSTRY PRODUCTION DATA RATE-TIME PLOTS

API NO: 300152347000 GENID: 4WG00785

GAS

WELL: EMPIRE S DEEP UNIT 000021 LOCATION: 38A017SD28E

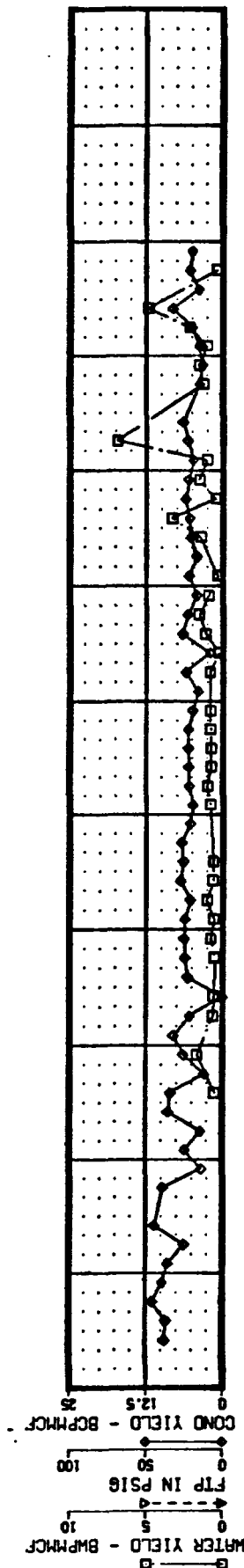
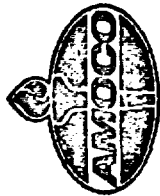
FIELD: EMPIRE MORROW, SOUTH (GAS) PM 008028724 RESERVOIR: PM

OPERATOR: AMOCO PRODUCTION CO 019822

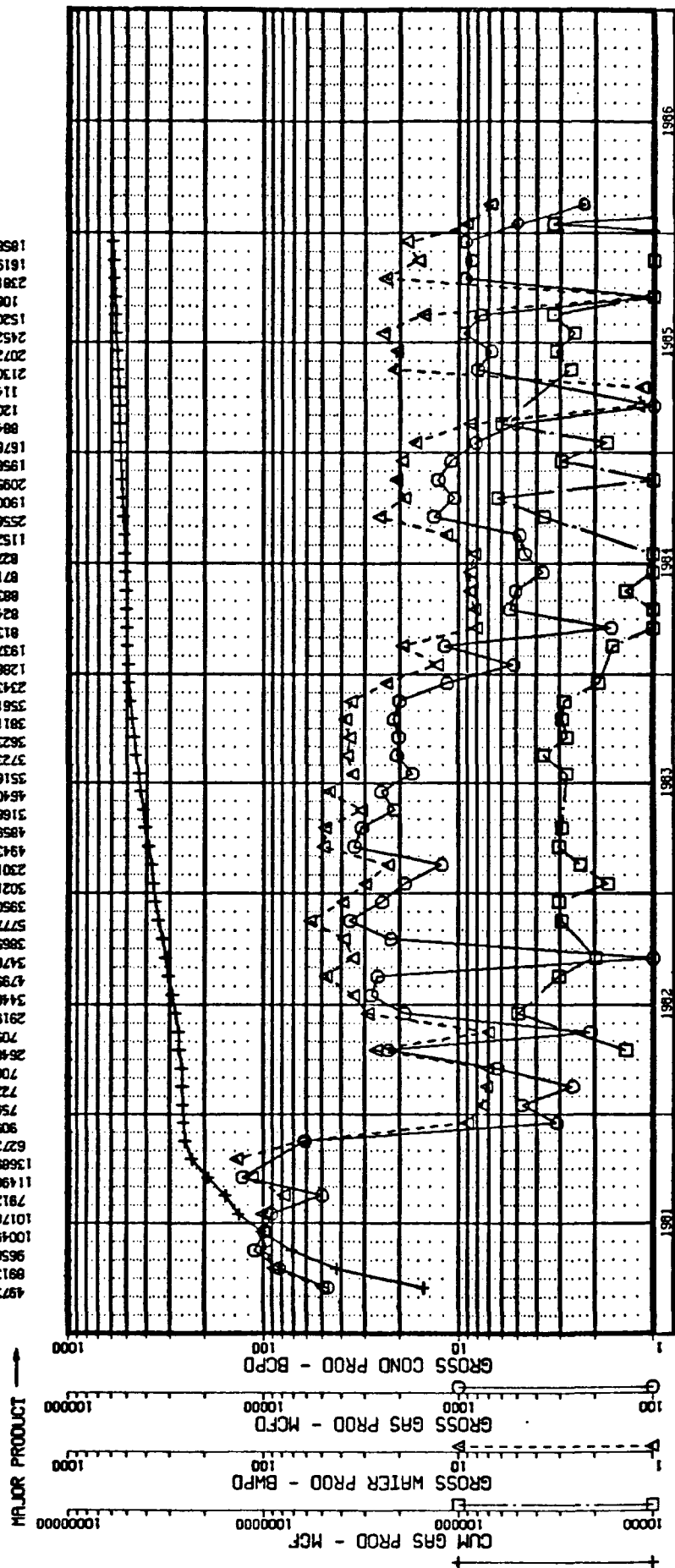
STATE: NM 30 COUNTY: EDDY 015 TOT. GAS CUM: 5,938,789

FIRST PROD 81 03 LAST PROD 85 12 TOT. OIL CUM: 39,120

REQUESTOR: RITZ -21JMJR LOCATION: HOUSTON PERFS:



4973 858 1619 2381 108 1520 2452 2072 2130 114 120 884 1678 1956 2095 2558 1151 82 871 883 824 813 1937 1288 2343 3561 3811 3623 3723 3516 4540 5168 4858 4943 2301 3021 3950 5777 3865 3476 4795 3446 2919 705 2848 706 722 759 905 6272 13688 11490 7912 10178 10049 9658 8913 4973



1986-07-01

TIME

REPORT NUMBER 321



14-08-0001-11391
3180 (065)

JUN 17 1986

Amoco Production Company
Attn: Ms. Mary Stonecipher
P. O. Box 591
Tulsa, OK 74162

Re: Empire South Deep Unit
Eddy County, New Mexico

Gentlemen:

According to our records, the Sixth (6) Revision of the Morrow Participating Area contains the following lands:

Lots 1, 2 and 3, E4NW4, NE1, NE4SW4, NE2E1
Sec. 30, T. 17 S., R. 29 E., N.M.P.M.

This participating area was based on the completion on April 7, 1977 of Empire South Deep Unit Well No. 13. Also, Empire South Deep Unit Well No. 18, completed on June 2, 1978, and located 1980' FWL and 1980' FWL, sec. 30, T. 17 S., R. 29 E., N.M.P.M., lies within the Sixth (6) Morrow Revision as described above. Both wells are therefore unit wells and Amoco Production Company, as unit operator, should be reporting production. Harvey E. Yates Company, as Designation of Agent, is currently reporting production data. Also, well signs should reflect Amoco Production Company as unit operator.

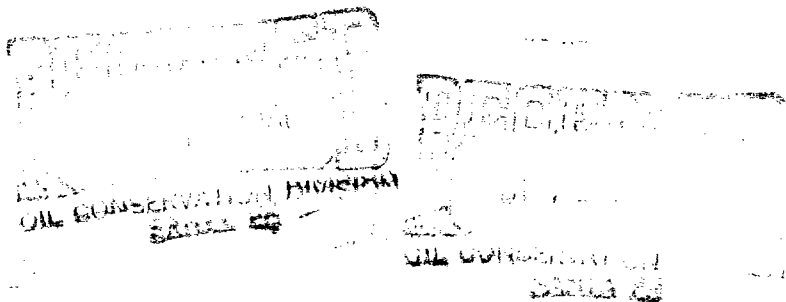
Harvey E. Yates Company has been notified concerning the above. Should you have additional questions please call Armando Lopez, Chief, Branch of Fluid Minerals, at (505) 622-9042.

Sincerely,

Orig. Sgd. Francis R. Cherry, Jr.

Francis R. Cherry, Jr.
District Manager

cc:
Commissioner of Public Lands, Santa Fe
NMOCD, Santa Fe



14-08-0601-11591
3160 (065)

JUN 17 1986

Apache Production Company
Attention: Richard E. Ogden
501 Westlake Park Blvd.
P. O. Box 3092
Houston, TX 77253

Re: 1986 Plan of Development
Empire South Deep
Sandoz County, New Mexico

Gentlemen:

Pursuant to Section 10. of the Unit Agreement a Plan of Development shall be submitted for approval to constitute the further drilling and operating obligations of the Unit operator under this agreement for the period Jan. 1, 1986 through Dec. 31, 1986.

The Plan of Development shall contain a current unit map showing all existing wells and their status together with individual well decline curves and/or production data in statistical form updated to the present.

As of this date we have not received your Plan of Development for the above named unit(s) for the year 1986. Please submit this information within thirty (30) days. Plans of Development are to be submitted by March 1 of each year.

Sincerely,

Orig. Sgl. Francis R. Cherry, Jr.

Francis R. Cherry, Jr.
District Manager

cc:
Commissioner of Public Lands, Santa Fe
NM (943B)
✓ NMOCB, Santa Fe
NM (067)