

District I
1625 N. French Drive, Hobbs, NM 88240

District II
811 South First Street, Artesia, NM 88210

District III
1000 Rio Brazos Road, Aztec, NM 87410

District IV
2040 South Pacheco, Santa Fe, NM 87505

State of New Mexico
Energy, Minerals and Natural Resources Department

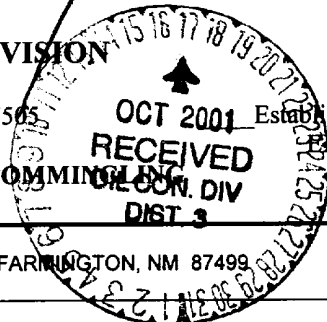
Form C-107A
Revised May 15, 2000

OIL CONSERVATION DIVISION

2040 South Pacheco
Santa Fe, New Mexico 87505

APPLICATION FOR DOWNHOLE COMMINGLING

APPLICATION TYPE
____ Single Well
____ Establish Pre-Approved Pools
EXISTING WELLBORE
____ X Yes ____ No



BURLINGTON RESOURCES OIL & GAS COMPANY

PO BOX 4289, FARMINGTON, NM 87499

Operator

Address

ROCK ISLAND FEDERAL

1

M-09-29N-10W

SAN JUAN

Lease

Well No.

Unit Letter-Section-Township-Range

County

OGRID No. 14538

Property Code 7436

API No. 30-045-08473

Lease Type: X Federal

State

Fee

DATA ELEMENT	UPPER ZONE	INTERMEDIATE ZONE	LOWER ZONE
Pool Name	OTERO CHACRA	BLANCO MESAVERDE	BASIN DAKOTA
Pool Code	82329	72319	71599
Top and Bottom of Pay Section (Perforated or Open-Hole Interval)	WILL BE SUPPLIED UPON COMPLETION	WILL BE SUPPLIED UPON COMPLETION	6651'-6703'
Method of Production (Flowing or Artificial Lift)	FLOWING	FLOWING	FLOWING
Bottomhole Pressure (Note: Pressure data will not be required if the bottom perforation in the lower zone is within 150% of the depth of the top perforation in the upper zone)	385 PSI - CURRENT 724 PSI - ORIGINAL (see attachment)	413 PSI - CURRENT 1281 PSI - ORIGINAL (see attachment)	655 PSI - CURRENT 2293 PSI - ORIGINAL (see attachment)
Oil Gravity or Gas BTU (Degree API or Gas BTU)	1076	1223	1195
Producing, Shut-In or New Zone	NEW ZONE	NEW ZONE	SHUT IN
Date and Oil/Gas/Water Rates of Last Production. (Note: For new zones with no production history, applicant shall be required to attach production estimates and supporting data.)	Date: New Zone Rates: (see attached)	Date: New Zone Rates: (see attached)	Date: 7/31/01 Rates: 95 mcf/d
Fixed Allocation Percentage (Note: If allocation is based upon something other than current or past production, supporting data or explanation will be required.)	Oil % Gas % WILL BE SUPPLIED UPON COMPLETION	Oil % Gas % WILL BE SUPPLIED UPON COMPLETION	Oil % Gas % WILL BE SUPPLIED UPON COMPLETION

ADDITIONAL DATA

Are all working, royalty and overriding royalty interests identical in all commingled zones?
If not, have all working, royalty and overriding interest owners been notified by certified mail?

Yes ____ No X
Yes X No ____

Are all produced fluids from all commingled zones compatible with each other?

Yes X No ____

Will commingling decrease the value of production?

Yes ____ No X

If this well is on, or communitized with, state or federal lands, has either the Commissioner of Public Lands
or the United States Bureau of Land Management been notified in writing of this application?

Yes X No ____

NMOCD Reference Case No. applicable to this well: _____

Attachments:

- C-102 for each zone to be commingled showing its spacing unit and acreage dedication.
- Production curve for each zone for at least one year. (If not available, attach explanation.)
- For zones with no production history, estimated production rates and supporting data.
- Data to support allocation method or formula.
- Notification list of working, royalty and overriding royalty interests for uncommon interest cases.
- Any additional statements, data or documents required to support commingling.

PRE-APPROVED POOLS

If application is to establish Pre-Approved Pools, the following additional information will be required:

- List of other orders approving downhole commingling within the proposed Pre-Approved Pools
- List of all operators within the proposed Pre-Approved Pools
- Proof that all operators within the proposed Pre-Approved Pools were provided notice of this application.
- Bottomhole pressure data.

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

SIGNATURE

Sean E. Corrigan

TITLE

Production Engineer

DATE 10/15/01

tlw

TYPE OR PRINT NAME Sean E. Corrigan

TELEPHONE NO. (505) 326-9700

Rock Island Federal #1

Bottom Hole Pressures

Flowing and Static BHP

Cullender and Smith Method

Version 1.0 3/13/94

Mesaverde		Dakota	
<u>MV-Current</u>		<u>DK-Current</u>	
GAS GRAVITY	0.706	GAS GRAVITY	0.689
COND. OR MISC. (C/M)	C	COND. OR MISC. (C/M)	C
%N2	0.587	%N2	0.35
%CO2	0.683	%CO2	0.91
%H2S	0	%H2S	0
DIAMETER (IN)	2.375	DIAMETER (IN)	2.375
DEPTH (FT)	4725	DEPTH (FT)	6681
SURFACE TEMPERATURE (DEG F)	60	SURFACE TEMPERATURE (DEG F)	60
BOTTOMHOLE TEMPERATURE (DEG F)	137	BOTTOMHOLE TEMPERATURE (DEG F)	198
FLOWRATE (MCFPD)	0	FLOWRATE (MCFPD)	0
SURFACE PRESSURE (PSIA)	366	SURFACE PRESSURE (PSIA)	558
BOTTOMHOLE PRESSURE (PSIA)	412.6	BOTTOMHOLE PRESSURE (PSIA)	654.8
<u>MV-Original</u>		<u>DK-Original</u>	
GAS GRAVITY	0.706	GAS GRAVITY	0.689
COND. OR MISC. (C/M)	C	COND. OR MISC. (C/M)	C
%N2	0.587	%N2	0.35
%CO2	0.683	%CO2	0.91
%H2S	0	%H2S	0
DIAMETER (IN)	2.375	DIAMETER (IN)	2.375
DEPTH (FT)	4725	DEPTH (FT)	6681
SURFACE TEMPERATURE (DEG F)	60	SURFACE TEMPERATURE (DEG F)	60
BOTTOMHOLE TEMPERATURE (DEG F)	137	BOTTOMHOLE TEMPERATURE (DEG F)	198
FLOWRATE (MCFPD)	0	FLOWRATE (MCFPD)	0
SURFACE PRESSURE (PSIA)	1117	SURFACE PRESSURE (PSIA)	1907
BOTTOMHOLE PRESSURE (PSIA)	1281.4	BOTTOMHOLE PRESSURE (PSIA)	2292.7

Rock Island Federal #1

Bottom Hole Pressures

Flowing and Static BHP

Cullender and Smith Method

Version 1.0 3/13/94

Chacra	
<u>CH-Current</u>	
GAS GRAVITY	0.613
COND. OR MISC. (C/M)	C
%N2	0.15
%CO2	1.02
%H2S	0
DIAMETER (IN)	2.375
DEPTH (FT)	3266
SURFACE TEMPERATURE (DEG F)	60
BOTTOMHOLE TEMPERATURE (DEG F)	137
FLOWRATE (MCFPD)	0
SURFACE PRESSURE (PSIA)	359
BOTTOMHOLE PRESSURE (PSIA)	385.3

<u>CH-Original</u>	
GAS GRAVITY	0.613
COND. OR MISC. (C/M)	C
%N2	0.15
%CO2	0.613
%H2S	0
DIAMETER (IN)	2.375
DEPTH (FT)	3266
SURFACE TEMPERATURE (DEG F)	60
BOTTOMHOLE TEMPERATURE (DEG F)	137
FLOWRATE (MCFPD)	0
SURFACE PRESSURE (PSIA)	672
BOTTOMHOLE PRESSURE (PSIA)	723.6

Rock Island Federal #1
Existing Dakota Well

<u>Well Name</u>	<u>Date</u>	<u>Well Head Pressure</u>
Rock Island Federal 1	2/14/1965	1,907
Rock Island Federal 1	2/23/1965	1,894
Rock Island Federal 1	8/4/1965	1,387
Rock Island Federal 1	7/22/1966	1,157
Rock Island Federal 1	2/15/1967	1,065
Rock Island Federal 1	2/2/1968	915
Rock Island Federal 1	2/4/1969	958
Rock Island Federal 1	12/16/1970	843
Rock Island Federal 1	8/15/1971	722
Rock Island Federal 1	5/12/1972	613
Rock Island Federal 1	6/8/1973	685
Rock Island Federal 1	5/13/1975	621
Rock Island Federal 1	5/10/1977	765
Rock Island Federal 1	7/10/1979	670
Rock Island Federal 1	5/18/1981	711
Rock Island Federal 1	11/2/1983	711
Rock Island Federal 1	7/2/1985	558

Rock Island Federal #1
Offset Mesaverde Well

<u>WellName</u>	<u>Date</u>	<u>Well Head Pressure</u>
GRENIER B 4A	7/5/1981	1,117
GRENIER B 4A	3/24/1982	743
GRENIER B 4A	8/24/1983	515
GRENIER B 4A	4/4/1984	443
GRENIER B 4A	3/12/1986	352
GRENIER B 4A	8/30/1989	458
GRENIER B 4A	11/12/1991	378
GRENIER B 4A	5/31/1993	366

Rock Island Federal #1
Offset Chacra Well

<u>WellName</u>	<u>Date</u>	<u>Well Head Pressure</u>
Hubbell 4	12/9/1974	672
Hubbell 4	5/16/1975	415
Hubbell 4	4/12/1976	381
Hubbell 4	5/9/1977	359

ROCK ISLAND FEDERAL 1 5149801 (309087395375.704) Data: Jan. 1965-Jun. 2001

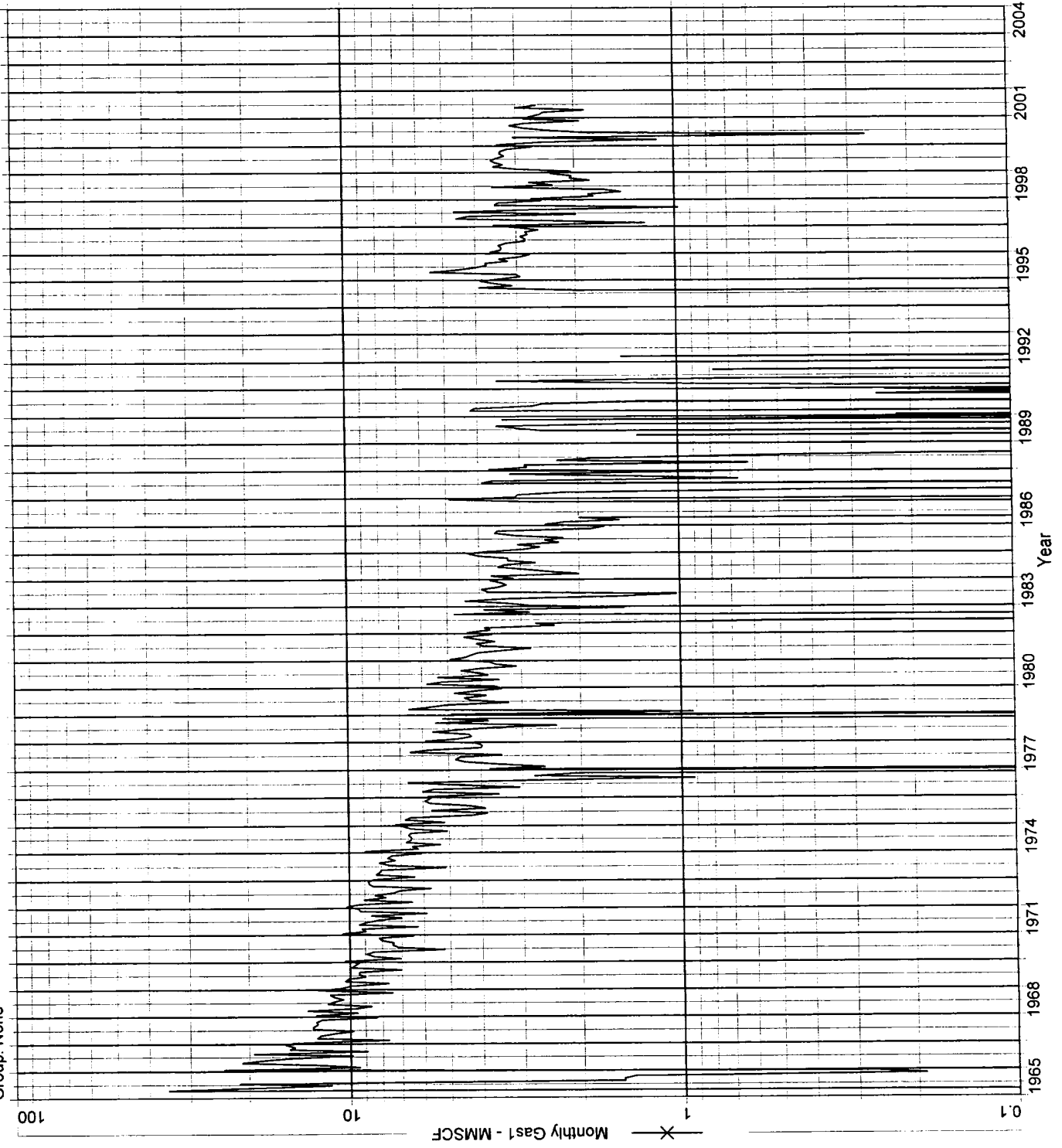
Operator: BURLINGTON RESOURCES OG CO LP
Field: BASIN DAKOTA (PRORATED GAS)

Zone:
Type: Gas
Group: None

No
Active
Forecast

Production Cums
Oil: 0 MSTB
Gas: 1950.6 MMSCF
Water: 0.059145 MSTB
Cond: 12.9117 MSTB

—*— Monthly Gas1 - MMSCF
Cum: 1950.6 MMSCF

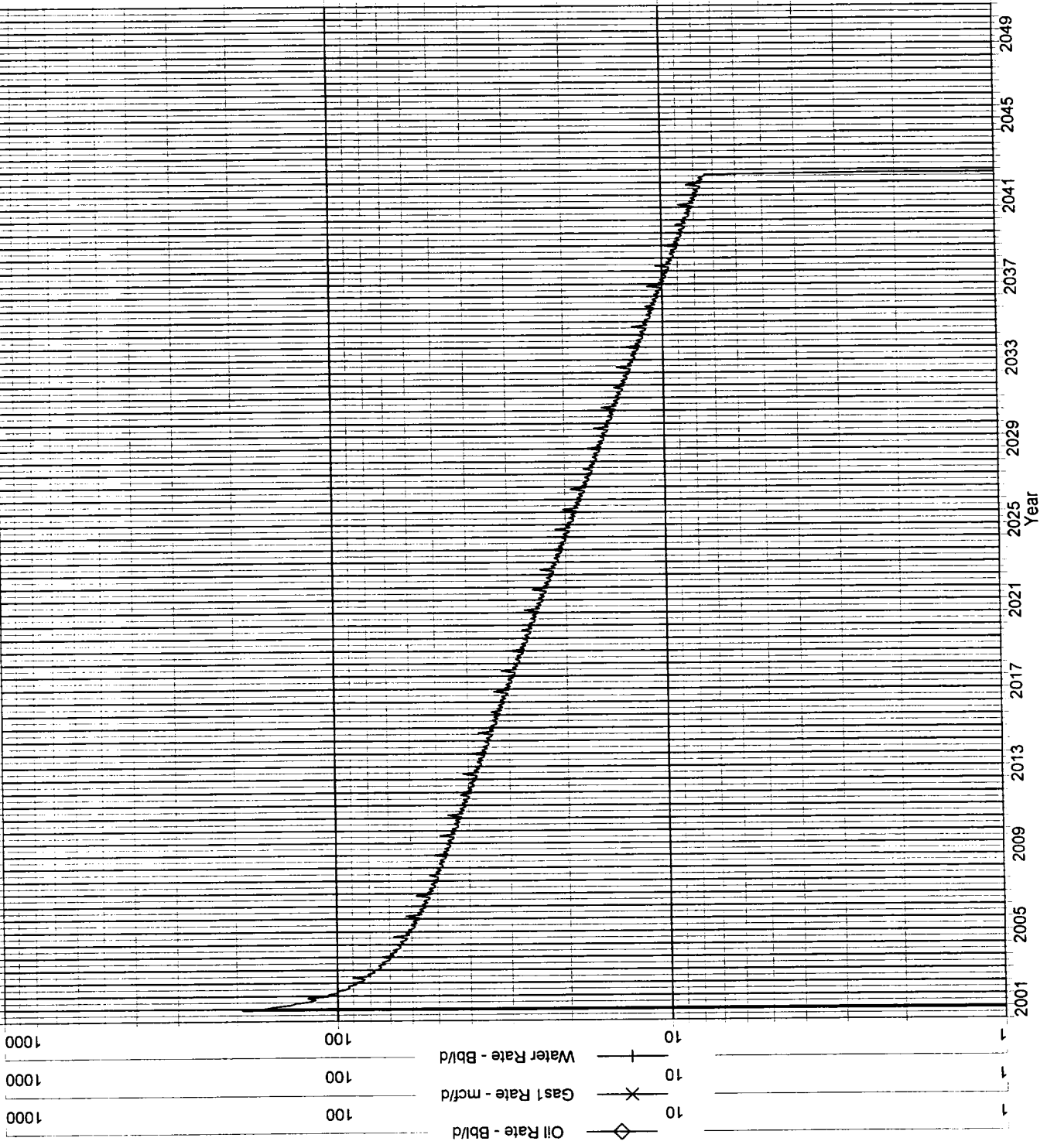


{(D23D6EA6-989E-11D5-A613-0090274E637E)} Data: Aug 2001-Aug 2001

Operator: No Active Forecast
Field: MESAVERIDE
Zone: Other
Type: Other
Group: None

Production Cums
Oil: 0 MSTB
Gas: 0 MMSCF
Water: 0 MSTB
Cond: 0 MSTB

Oil Rate - Bbl/d
Cum: 0
Gas1 Rate - mcf/d
Cum: 0
Water Rate - Bbl/d
Cum: 0



{{D23D6EA7-989E-11D5-A613-0090274E637E}} Data: Aug 2001-Aug 2001

Operator:

Field:

Zone: CHACRA

Type: Other

Group: None

No
Active
Forecast

Production Cumis

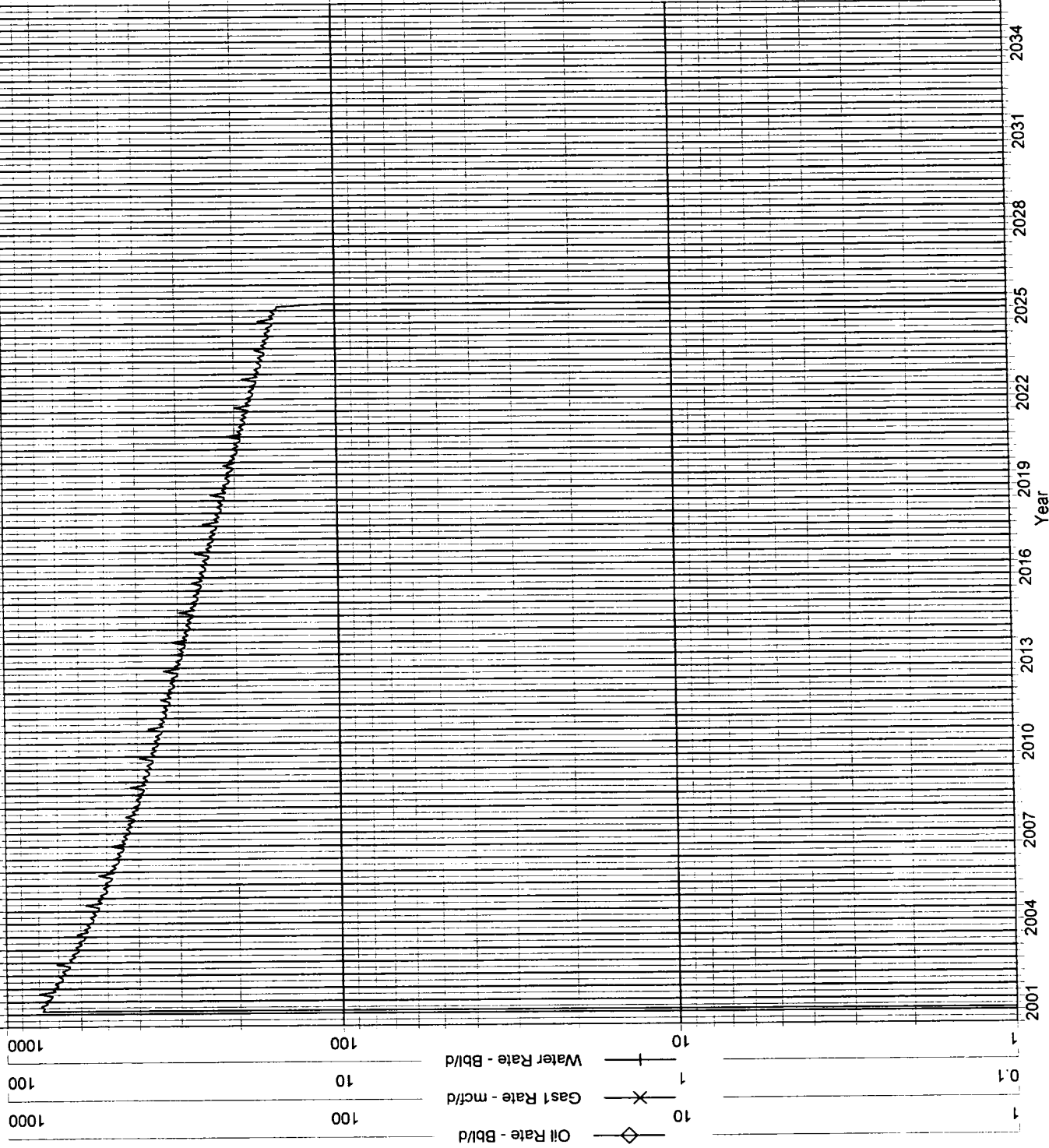
Oil: 0 MSTB

Gas: 0 MMSCF

Water: 0 MSTB

Cond: 0 MSTB

◇ Oil Rate - Bbl/d
Cum: 0
✱ Gas1 Rate - mcf/d
Cum: 0
+ Water Rate - Bbl/d
Cum: 0



The map displays the Texas Panhandle region, showing various oil and gas fields and well locations. Key features include:

- Fields and Wells:** Numerous fields are labeled, including the Permian Basin, Permian Plateau, and Permian Basin. Well locations are marked with numbers and letters, often accompanied by production data.
- Geographic Features:** The map shows the Texas Panhandle, including the Permian Basin, Permian Plateau, and Permian Basin.
- Production Data:** Production data is provided for many wells, including oil and gas production rates.
- Map Orientation:** The map is oriented with North at the top.

INTEREST OWNERS

Rock Island Fed 1 Well

ALMA LOU BRANHAM

ANITA MCDONALD

ANN MILLER

ANNA CELIA HOWELL HILTON

ARTHUR D SWINDELL ADMIN

ARTHUR LEYRER

BARBARA CASE

BEATRICE BOOKWALTER

BEN HOWELL LANGFORD

BETTY CHRISTENSEN

BETTY WOLFE HAGERMAN

BEVERLY MOLEN

BEVERLY S SHILLINGLAW

BOW PETROLEUM INC

BUREAU OF LAND MANAGEMENT

CAROL A ZAHARA

CAROL FALETTI

CAROLINE KAUTZ

CHARLES F SHENOHA

CHARLES JAAKOLA

CHARLES P GRAY & MARIE M GRAY

CHASE BANK OF TEXAS NA TRUSTEE HOWELL GRANDCHILDRENS TRUST

CHASE BANK OF TEXAS NA TRUSTEE BEN R HOWELL TRUST

CHRISTINE GOULD EXECUTRIX

CLARA A CRITTENDEN

CLARENCE RUPP

CONOCO INC

Rock Island Fed 1 Well

CYNTHIA H SCOFIELD

DAVID LANGFORD

DAVID P VINSON

DEA COOK

DEE ANN STONE

DENNIS M SPRAGUE &

DONNA J PIGG

DORIS F GARNER

DRY CREEK RESERVE COMPANY

E TAYLOR ARMSTRONG TR

EDWIN J CRITTENDEN DECD

ELIZABETH ANN BALDWIN

ELIZABETH H LUND TRUSTEE ELIZABETH H LUND ROYALTY TRUST

EMILIE M HARDIE ROYALTY TRUST

EMILY D GRAMBLING

EMILY MARK

EMMA L BOND

EMMA L BOND & ROBERT A BROWN

ENERLEX INC

ERNEST O ALLEN SR DECD

EUGENE P BRASHER

EVERETT R JONES JR

FAYE DEANE WILLIS EXECUTRIX

FLORENCE A CHURCH &

FLORENCE LANGFORD ZWOLLE

FRANCES LOCKE

FRANK LYAL PURCELL SR

FRANKIE VALENTINE NORVELL

FREDERICK R MAYER & ELIZABETH

Rock Island Fed 1 Well

FREDERICK R MAYER AIF FOR

GARY A JERMAN & SUSAN J JERMAN

GENIE H BENTLEY

GEORGE E ALDEN

GEORGE F SENNER

GLADYS BRYAN

GLEN S CADE

GUNDI B HAYS

HANCOCK-DORIE TRUST

HANELLA C RAHN

HELEN F HILL

INEZ J ONEAL

J A VAUGHN

J LANHAM HIGGINBOTHAM III

J LUDWIG MOSLE

JAMES B EVANS SUCC PERS REP

JAMES M MARTIN

JANE HARDIE TRUSTEE WILLIAM B HARDIE SR ROYALTY TR

JOAN E FLEMING EXEC

JOHN A GRAMBLING

JOHN ALDERSON JR ESTATE

JOHN R CALVIN

JOHN VILHELM HJERTSTEDT

JOSEPH C JASTRZEMBSKI

JUDITH VAN GAASBEEK

JUNE L NELSON

KATHERINE L WENIG

KATHLEEN M LENNES

KOCH EXPLORATION CO

Rock Island Fed 1 Well

LAVERNE G ALDERSON ESTATE

LAWRENCE LANGFORD

LEONARD R OLA

LINDA L RAYES

LLOYD E SOMMERS

LORAYN MILLER

LOUIS DREYFUS NATURAL GAS CORP

MABELLE BRAMHALL TRUSTEE MABELLE H SOWERS ROYALTY TRUST

MARATHON OIL COMPANY

MARGARET M ALDEN

MARGARET S GIVEN ADMIN W/W ANNEXED

MARGARET TOPPING

MARTHA H LYNCH

MARY ANN HAUG

MARY L GARRETT

MICHAEL EUGENE SANDIFER EXEC

MILDRED L MASON

MINNIE O THOMSON

MOODY BIBLE INSTITUTE OF CHICAGO

NAOMI GRAHAM

NAVAJO MISSIONS INC

NOEL A CRITTENDEN DECD

NORMA C MATTHEWS

NORTH AMERICAN ENERGY

O C BECK

PATRICIA BANAS

PATRICIA G HARVEY

PHYLLIS JEAN RUSH

QUESTAR EXPLORATION & PROD CO

Rock Island Fed 1 Well

R G STOREY & SONS

R H FEUILLE

RICHARD CLINTON MULLINS ADMIN

RICHARD LANGFORD

RICHARD PARKER LANGFORD

ROBERT E GORDON &

ROBERT SIMPSON

ROLAND C BOWKER

ROSCOE A SMITH & NELLE I SMITH

ROSEMARY THOMA AKA

ROY E CRITTENDEN

SALLY LOWTHER

SHEILA J HATCH

SHRINERS HOSPITALS FOR

STEVEN OROS AND

SUSAN B HYLAND

SUSAN MCKEEN

SUZANNE CHAMBERS

THELMA MADELYNN CASTENS BJORENDAHL

THOMAS W PETTIT

THORNTON HARDIE III TRUSTEE MARY ELIZABETH HARDIE ROY TRST

TOURMALINE EXPLORATION CO

TWILA M GOODDING TRUSTEE JOSEPH E & TWILA M GOODDING

VERNA E BILLMAN

VERNA RISKU

W B CRITTENDEN

W P WACHOLZ EXECUTOR

WALTER H CRIDER

WARREN MCARTHUR JR

Rock Island Fed 1 Well

WILLIAM A DOLL

WILLIAM D HEIMBROOK

WILLIAM E AULGUR ADMINISTRATOR

WILLIAM J BRYAN DECD

WM A SHEPHERD