

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

APPLICATION FOR DOWNHOLE COMMINGLING

BURLINGTON RESOURCES OIL & GAS COMPANY
PO BOX 4289, FARMINGTON, NM 87499

Operator Address
KELLY 4M G-35-30N-10W SAN JUAN
Lease Well No. Unit Letter-Section-Township-Range County
OGRID No. 14538 Property Code 7210 API No. 30-045-30403 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	WILL BE SUPPLIED UPON COMPLETION
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)	390 PSI - CURRENT 733 PSI - ORIGINAL (see attachment)	602 PSI - CURRENT 950 PSI - ORIGINAL (see attachment)	705 PSI - CURRENT 1359 PSI - ORIGINAL (see attachment)
Oil Gravity or Gas BTU (Degree API or Gas BTU)	1223	1237	1126
Producing, Shut-In or New Zone	New Zone	New Zone	New Zone
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: Rates:	Date: Rates:	Date: Rates:
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

Trimingke order not issued yet 1-25-2
ADDITIONAL DATA

Are all working, royalty and overriding royalty interests identical in all commingled zones?
If not, have all working, royalty and overriding royalty 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 Kelly A. Sutton TITLE Production Engineer DATE 01/14/02
TYPE OR PRINT NAME Kelly Sutton TELEPHONE NO. (505) 326-9700

DISTRICT I
P.O. Box 1980, Hobbs, N.M. 88241-1980

DISTRICT II
P.O. Drawer DD, Artesia, N.M. 88211-0719

DISTRICT III
1000 Rio Brazos Rd., Aztec, N.M. 87410

DISTRICT IV
PO Box 2088, Santa Fe, NM 87504-2088

State of New Mexico
Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION

P.O. Box 2088
Santa Fe, NM 87504-2088

Form C-102

Revised February 21, 1994

Instructions on back

Submit to Appropriate District Office

State Lease - 4 Copies

Fee Lease - 3 Copies

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-045-30403		² Pool Code 82329/72319/71599		³ Pool Name Otero Chacra/Blanco Mesaverde/Basin Dakota	
⁴ Property Code 7218		⁵ Property Name KELLY			⁶ Well Number 4M
⁷ GRID No. 14538		⁸ Operator Name BURLINGTON OIL AND GAS, INC.			⁹ Elevation 6193'

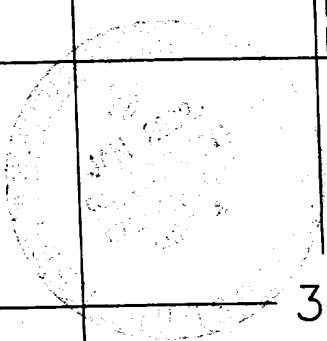
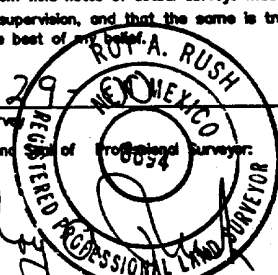
¹⁰ Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
G	35	30-N	10-W		1730'	NORTH	1895'	EAST	SAN JUAN

¹¹ Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
¹² Dedicated Acres Cha: NE/160 MV/DK: E/320					¹³ Joint or Infill		¹⁴ Consolidation Code		¹⁵ Order No.

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED
OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

16		FD B.L.M. BC 1967	N 89°58'42" W 2610.2' (M)	FD B.L.M. BC 1967	17
		1730'		2848.3' (M)	
		LAT. 36°46.3'N LONG. 107°51.1'W	1895'	S 0°04'11" W	
		35	USA NM-04240	FD B.L.M. BC 1967	
17 OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief Signature <u>Peggy Cole</u> Printed Name Peggy Cole Title Regulatory Supervisor Date <u>1-21-02</u>					
18 SURVEYOR CERTIFICATION I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief. Date of Survey <u>8-29-01</u> Signature and Seal of Professional Surveyor:  Certificate Number <u>8894</u>					

Kelly #4M
 Bottom Hole Pressures
 Flowing and Static BHP
 Cullender and Smith Method
 Version 1.0 3/13/94

Dakota	
<u>DK-Current</u>	
GAS GRAVITY	0.704
COND. OR MISC. (C/M)	C
%N2	0.763
%CO2	0.725
%H2S	0
DIAMETER (IN)	2.375
DEPTH (FT)	7074
SURFACE TEMPERATURE (DEG F)	60
BOTTOMHOLE TEMPERATURE (DEG F)	198
FLOWRATE (MCFPD)	0
SURFACE PRESSURE (PSIA)	592
BOTTOMHOLE PRESSURE (PSIA)	704.9
<u>DK-Original</u>	
GAS GRAVITY	0.704
COND. OR MISC. (C/M)	C
%N2	0.763
%CO2	0.725
%H2S	0
DIAMETER (IN)	2.375
DEPTH (FT)	7074
SURFACE TEMPERATURE (DEG F)	60
BOTTOMHOLE TEMPERATURE (DEG F)	198
FLOWRATE (MCFPD)	0
SURFACE PRESSURE (PSIA)	1125
BOTTOMHOLE PRESSURE (PSIA)	1358.5

Kelly #4M
 Bottom Hole Pressures
 Flowing and Static BHP
 Cullender and Smith Method
 Version 1.0 3/13/94

Chacra

CH-Current

GAS GRAVITY	0.704
COND. OR MISC. (C/M)	C
%N2	0.451
%CO2	0.665
%H2S	0
DIAMETER (IN)	2.875
DEPTH (FT)	3266
SURFACE TEMPERATURE (DEG F)	60
BOTTOMHOLE TEMPERATURE (DEG F)	137
FLOWRATE (MCFPD)	0
SURFACE PRESSURE (PSIA)	359
BOTTOMHOLE PRESSURE (PSIA)	389.8

Mesaverde

MV-Current

GAS GRAVITY	0.715
COND. OR MISC. (C/M)	C
%N2	0.666
%CO2	0.636
%H2S	0
DIAMETER (IN)	1.5
DEPTH (FT)	7140
SURFACE TEMPERATURE (DEG F)	60
BOTTOMHOLE TEMPERATURE (DEG F)	137
FLOWRATE (MCFPD)	0
SURFACE PRESSURE (PSIA)	498
BOTTOMHOLE PRESSURE (PSIA)	601.5

CH-Original

GAS GRAVITY	0.704
COND. OR MISC. (C/M)	C
%N2	0.451
%CO2	0.665
%H2S	0
DIAMETER (IN)	2.875
DEPTH (FT)	3266
SURFACE TEMPERATURE (DEG F)	60
BOTTOMHOLE TEMPERATURE (DEG F)	137
FLOWRATE (MCFPD)	0
SURFACE PRESSURE (PSIA)	672
BOTTOMHOLE PRESSURE (PSIA)	733.1

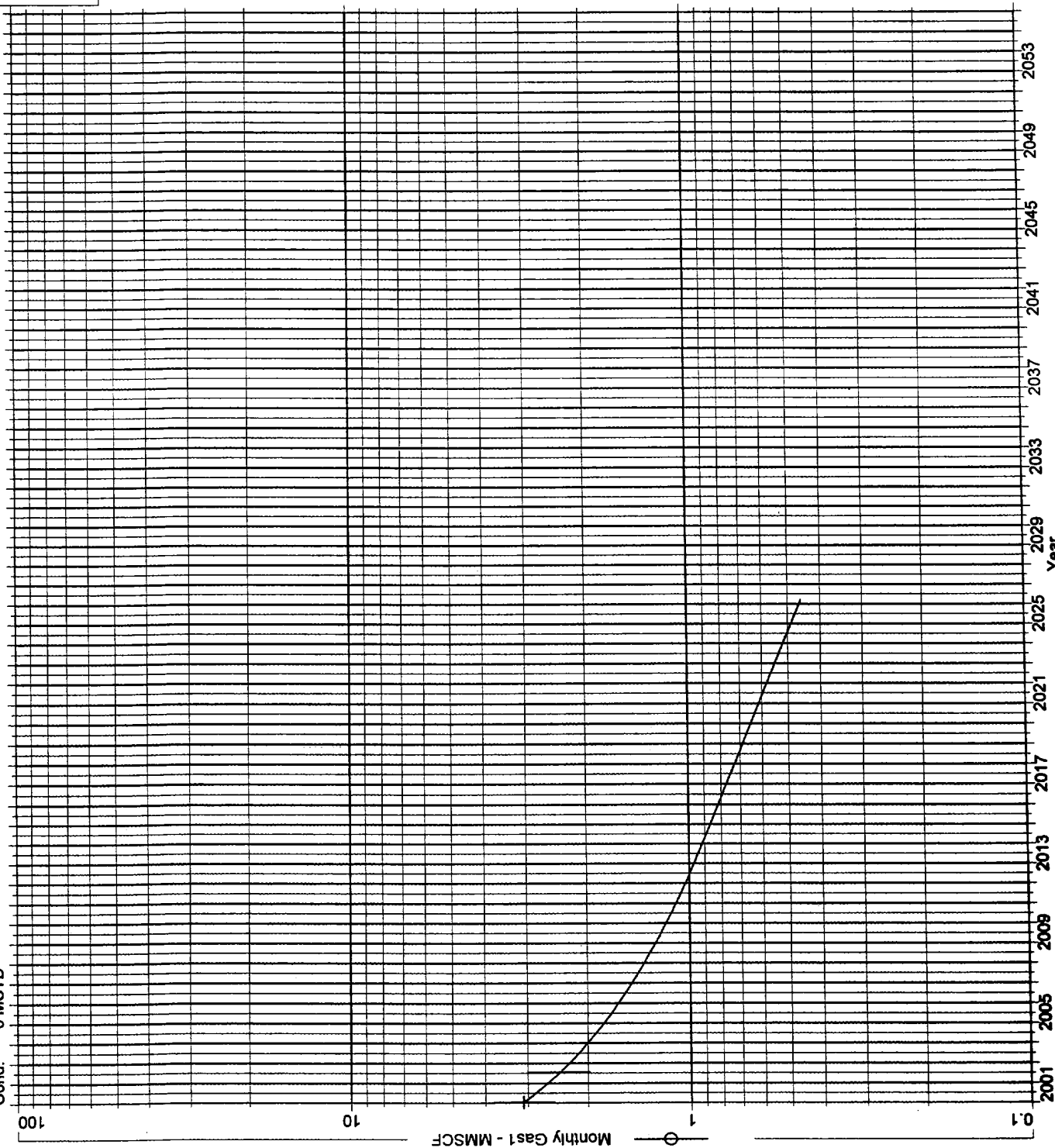
MV-Original

GAS GRAVITY	0.715
COND. OR MISC. (C/M)	C
%N2	0.666
%CO2	0.636
%H2S	0
DIAMETER (IN)	1.5
DEPTH (FT)	7140
SURFACE TEMPERATURE (DEG F)	60
BOTTOMHOLE TEMPERATURE (DEG F)	137
FLOWRATE (MCFPD)	0
SURFACE PRESSURE (PSIA)	778
BOTTOMHOLE PRESSURE (PSIA)	949.7

KELLY 4M CH (KELLY 4M CH) Data: .0- .0

—○— Monthly Gas1 - MMSCF
 ——— MVIM - MMSCF
 versus time
 Qi: 2.435 MMSCF, Jul, 2002
 Qf: 0.456702 MMSCF, Mar, 2026
 Di: (Hyp->Exp) : 12.6
 n: 1

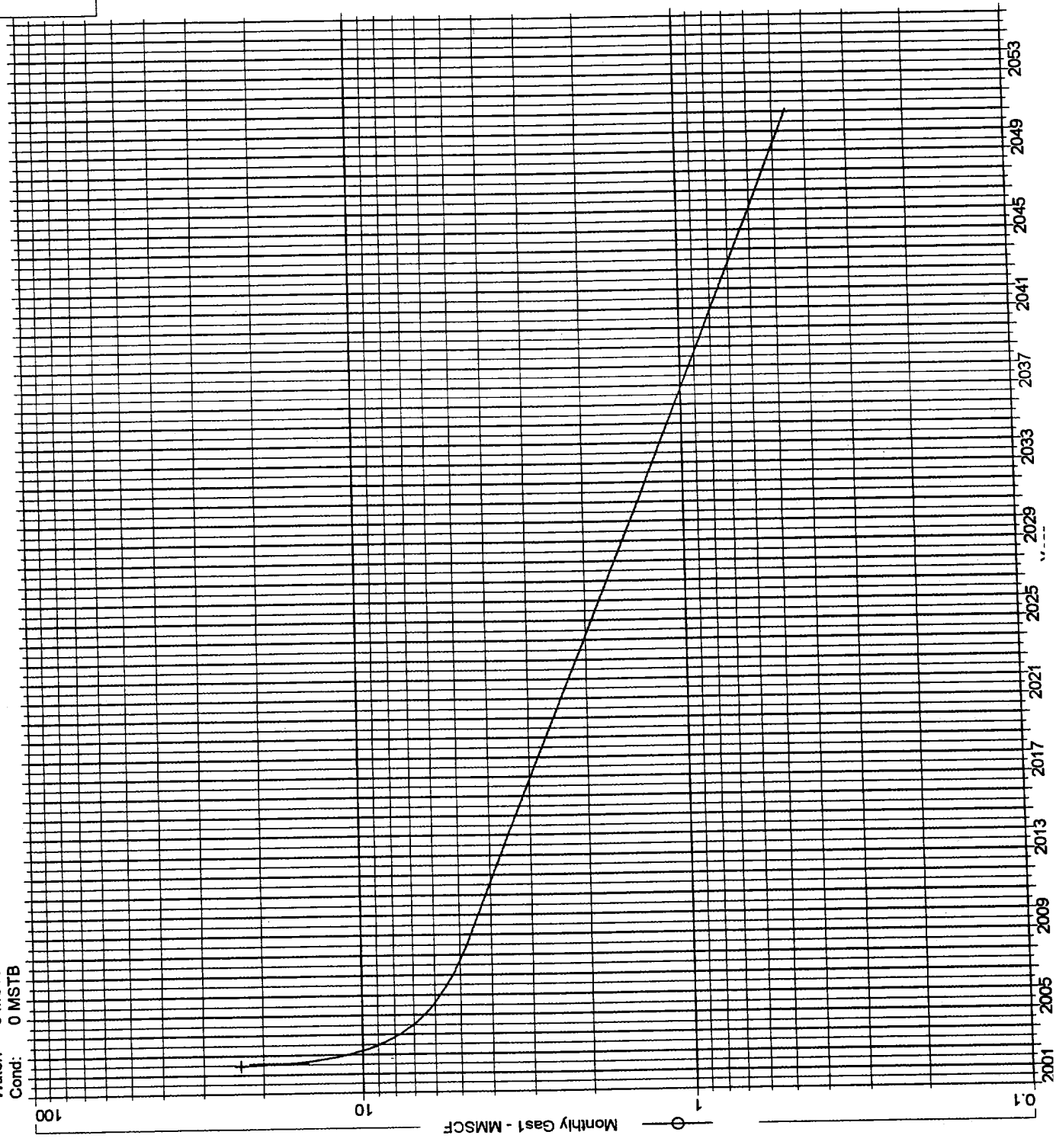
Production Cums
 Oil: 0 MSTB
 Gas: 0 MMSCF
 Water: 0 MSTB
 Cond: 0 MSTB



KELLY 4M MV (KELLY 4M MV) Data: 0- .0

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

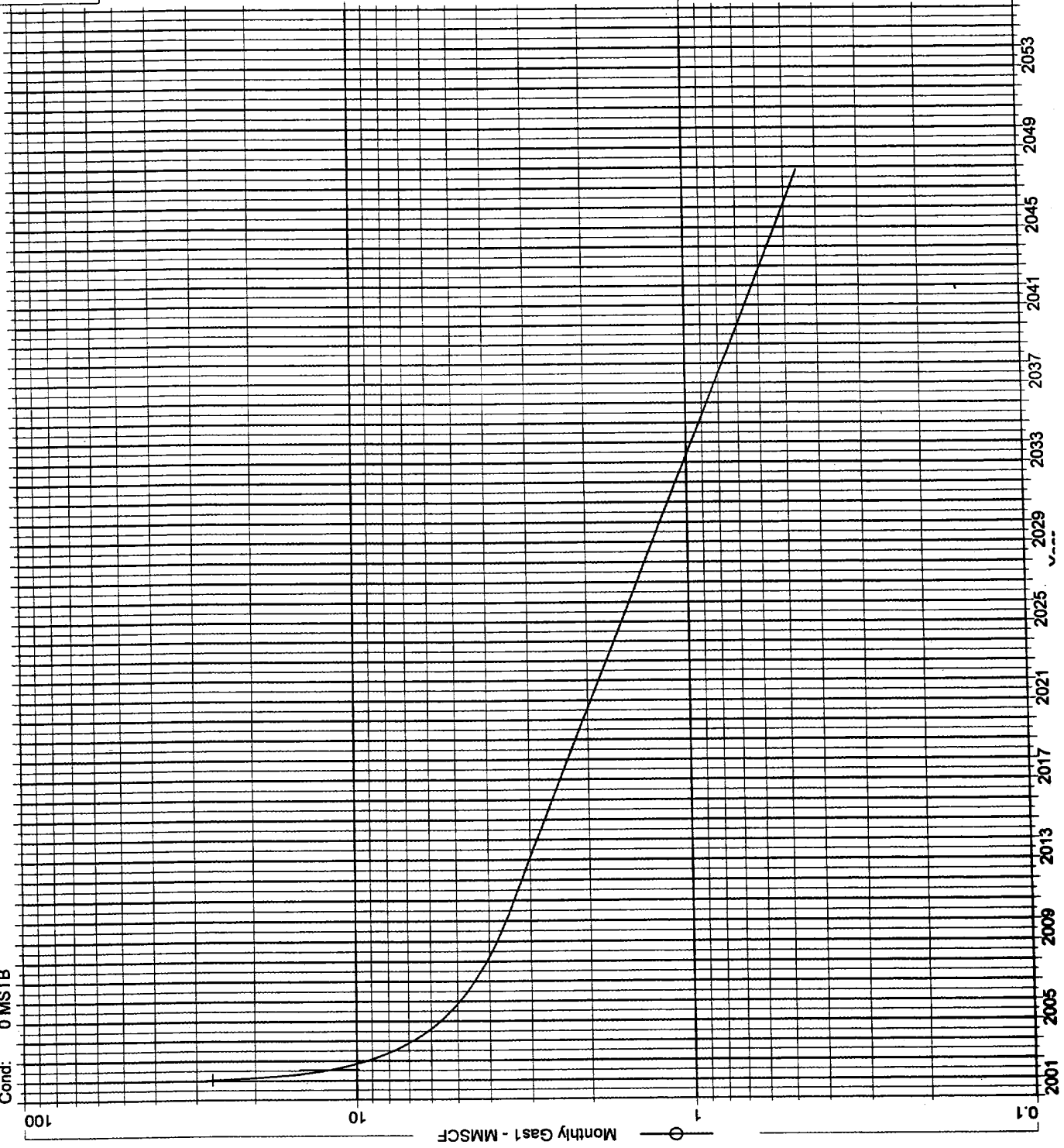
—○— Monthly Gas1 - MMSCF
 —+— MVIM - MMSCF
 versus time
 Qi: 19.7844 MMSCF, Jul, 2002
 Qf: 0.456585 MMSCF, Feb, 2051
 Di:(Hyp->Exp) : 55
 n: 2.7



KELLY 4M DK (KELLY 4M DK) Data: 0- 0 .0

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

Monthly Gas1 - MMSCF
 MVIM - MMSCF
 versus time
 Qi: 12.4794 MMSCF, Jul, 2002
 Qf: 0.457003 MMSCF, Nov, 2047
 Di:(Hyp->Exp): 38
 n: 2.1



[illegible]

INTEREST OWNERS

Kelly 4M Well

ANN JONES
ANN LOCKIE
ANNA CELIA HOWELL HILTON
BEN HOWELL LANGFORD
BHCH MINERAL LTD
BRUCE H C HILL
BUREAU OF LAND MANAGEMENT
DONNA MELLENTHIN
ELIZABETH H LUND TRUSTEE ELIZABETH H LUND ROYALTY TRUST
ELIZABETH J TURNER CALLOWAY
EMILIE M HARDIE ROYALTY TRUST
EMILY D GRAMBLING
FLORENCIA EXPLORATION INC
FREDERICK EUGENE TURNER
J GLENN TURNER JR
JANE HARDIE TRUSTEE WILLIAM B HARDIE SR ROYALTY TR
JOHN A GRAMBLING
JOHN LEE TURNER
JOSEPH C JASTRZEMBSKI
JPMORGAN CHASE BANK TRUSTEE MARY FRANCES TURNER JR TRUST
JPMORGAN CHASE BANK TRUSTEE HOWELL GRANDCHILDRENS TRUST
JPMORGAN CHASE BANK-TRUSTEE BEN R HOWELL TRUST
MABELLE BRAMHALL TRUSTEE MABELLE H SOWERS ROYALTY TRUST
NANCY O MABE SUCC TRUSTEE LUCILE O QUIGLEY TRUST
PATRICIA G HARVEY
R H FEUILLE
RICHARD PARKER LANGFORD

Kelly 4M Well

SCHULTZ HENRIETTA TR

SCHULTZ MANAGEMENT L

THORNTON HARDIE III TRUSTEE MARY ELIZABETH HARDIE ROY TRST

WILLIAM G WEBB