

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

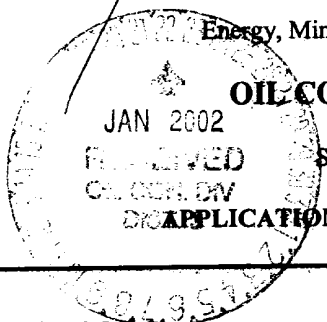
APPLICATION TYPE

Single Well

Establish Pre-Approved Pools

EXISTING WELLBORE

X Yes No



APPLICATION FOR DOWNHOLE COMMINGLING

Burlington Resources Oil and Gas Company P.O. Box 4289 Farmington, New Mexico 87499
Operator Address

Hancock 3 M 22 28N 09W San Juan
Lease Well No. Unit Letter-Section-Township-Range County

OGRID No. 14538 Property Code 7076 API No. 30-045-07253 Lease Type: Federal X State Fee

DATA ELEMENT	UPPER ZONE	INTERMEDIATE ZONE	LOWER ZONE
Pool Name	Basin Fruitland Coal	Aztec Pictured Cliffs	Blanco Mesa Verde
Pool Code	71629	71280	72319
Top and Bottom of Pay Section (Perforated or Open-Hole Interval)	3140'-3240' (proposed)	3258'-3290'	5274'-5706'
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)		311 psi @ 4172' (Presently commingled with Mesaverde)	311 psi @ 4172' (Presently commingled with Pictured Cliffs)
Oil Gravity or Gas BTU (Degree API or Gas BTU)	985 BTU (est)	1145 BTU (commingled)	1145 BTU (commingled)
Producing, Shut-In or New Zone	New Zone	Producing	Producing
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: 1/02 Rates: 130 MCFD, 0 BOD, 0.1 BWD (est)	Date: 11/30/01 Rates: 65 MCFD, 0 BOD, 0 BWD	Date: 11/30/01 Rates: 32 MCFD, 0 BOD, 0.4 BWD
Fixed Allocation Percentage (Note: If allocation is based upon something other than current or past production, supporting data or explanation will be required.)	To Be Filed After Commingled	Oil Gas % %	To Be Filed After Commingled

DHL order not issued, 1-25-02 ADDITIONAL DATA

Are all working, royalty and overriding royalty interests identical in all commingled zones?

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.
- 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 Bobby Goodwin TITLE Production Engineer DATE _____
nco
TYPE OR PRINT NAME Bobby Goodwin TELEPHONE NO. (505) 326-9700

District I
1301 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Rd., Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy, Minerals & Natural Resources Department
OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-102
Revised August 15, 2000
Submit to Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 Copies

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-045-07253	² Pool Code 71629/71280/72319	³ Pool Name Basin Fruitland Coal/Aztec Pictured Cliffs/Blanco Mesaverde
⁴ Property Code 7076	⁵ Property Name Hancock	⁶ Well Number 3
⁷ OGRID No. 14538	⁸ Operator Name Burlington Resources Oil & Gas Company LP	⁹ Elevation 7005' GR

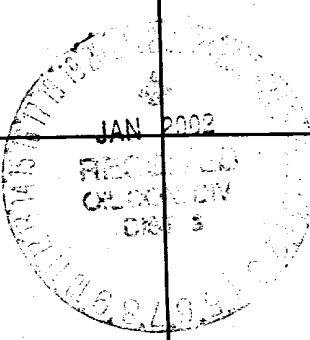
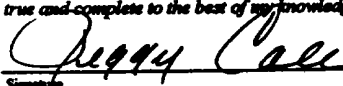
¹⁰ Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
M	22	28N	9W		890'	South	990'	West	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 FTC - W/320 FC - 160 MV-W - W/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					¹⁷ OPERATOR CERTIFICATION <i>I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.</i>  Signature
					Peggy Cole Printed Name
					Regulatory Supervisor
					Title 1-14-02 Date
					¹⁸ SURVEYOR CERTIFICATION <i>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.</i>
					Date of Survey
					Signature and Seal of Professional Surveyor:
					Certificate Number

990'
890'

Mims State Com 1
Bottom Hole Pressures
Flowing and Static BHP
Cullender and Smith Method
Version 1.0 3/13/94

Mesa Verde	
<u>MV-Current</u>	
GAS GRAVITY	0.733
COND. OR MISC. (C/M)	M
%N2	0.89
%CO2	0.75
%H2S	0
DIAMETER (IN)	4
DEPTH (FT)	4172
SURFACE TEMPERATURE (DEG F)	60
BOTTOMHOLE TEMPERATURE (DEG F)	155
FLOWRATE (MCFPD)	0
SURFACE PRESSURE (PSIA)	280
BOTTOMHOLE PRESSURE (PSIA)	311.5
<u>MV-Original</u>	
GAS GRAVITY	0.733
COND. OR MISC. (C/M)	M
%N2	0.89
%CO2	0.75
%H2S	0
DIAMETER (IN)	4
DEPTH (FT)	4172
SURFACE TEMPERATURE (DEG F)	60
BOTTOMHOLE TEMPERATURE (DEG F)	155
FLOWRATE (MCFPD)	0
SURFACE PRESSURE (PSIA)	1219
BOTTOMHOLE PRESSURE (PSIA)	1386.0

HANCOCK 3 5300101 (321548272279.947) Date: May. 1999-Aug. 2001

Pressure - psi
Cum: 0

Operator: Unknown

Field: Mesa Verde

NO
Active
Forecast

Production Cums

Oil: 0 MSTB

Gas: 380.326 MMSCF

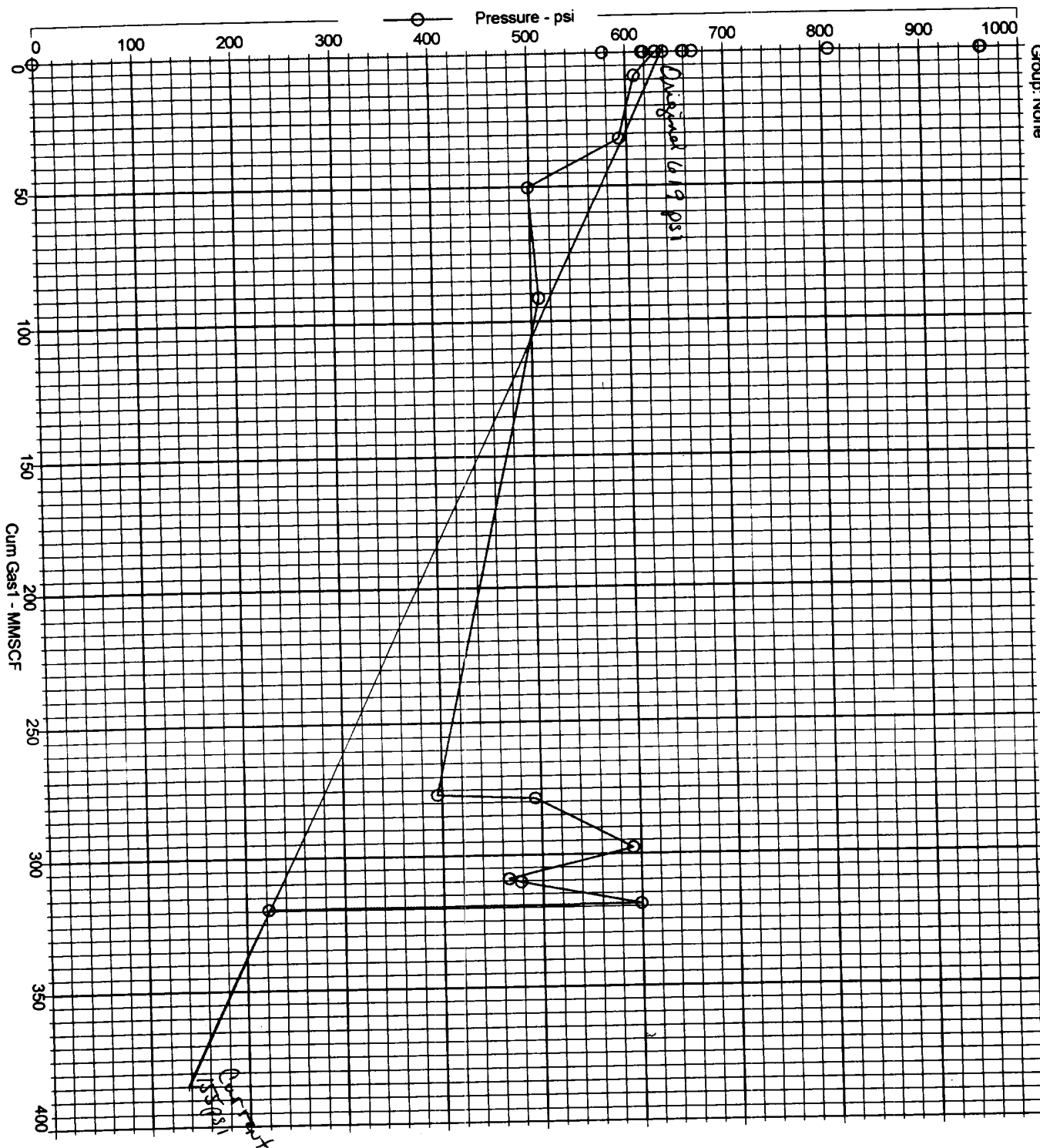
Water: 1.22879 MSTB

Cond: 5.78101 MSTB

Zone:

Type: Gas

Group: None



EL PASO NATURAL GAS COMPANY
SAN JUAN LABORATORYFRACTIONAL DISTILLATION ANALYSIS ☐GAS CHROMATOGRAPHY ANALYSIS ☒Date of Run 3-25-66Analysis No. VF - 8903Sample From El Paso Natural Gas CompanyDate Secured 3-23-66Sample Marked Hancock #3 (74-866-01)Secured By Measurement

COMPONENT	MOL. %	G. P. M.	LIQ. VOL. %
Carbon Dioxide	0.35		
Hydrogen Sulfide	Nil		
Nitrogen	0.22		
Methane	90.23		
Ethane	5.40		
Propane	2.22	0.611	
I-Butane	0.45	0.147	
N-Butane	0.53	0.167	
i-Pentane	0.20	0.073	
N-Pentane	0.14	0.051	
Hexane	0.26	0.113	
TOTALS	100.00	1.162	

Run By Ross Checked By James

Remarks
F. T. Bailey
R. L. Ahrens
H. L. Holder
R. Pritchard
E. S. Oberly
V. M. Plummer
F. V. Whitney
M. E. Blakely, Jr.
A. M. Derrick
J. E. Ashworth
File

HEATING VALUE
B.T.U. PER CU. FT.

Dry Basis, 14.696 lbs./sq. in., 60° F.

Calculated from % Composition 1122

Calorimeter

SULPHUR CONTENT
GRAINS PER 100 CU. FT.

14.7 lbs./sq. in., 60° F.

Hydrogen Sulfide Nil

Mercaptans

SPECIFIC GRAVITY

14.696 lbs./sq. in., 60° F.

Calculated from % Composition 0.634

Calculated from % Liquid

VAPOR PRESSURE

PSIA at 100° F.

Calculated from Mole %

Column/s Used

AE&MS

Calculation By

NGAA

Carbon Dioxide

NGAA

Hydrogen Sulfide

Lead Acetate

LOCATION AND WELL DATA

Sec. 22 T. 28 N. 9 W.

County

San Juan

State

New Mexico

Formation

Pictured Cliff - Aztec

Bomb Pressure

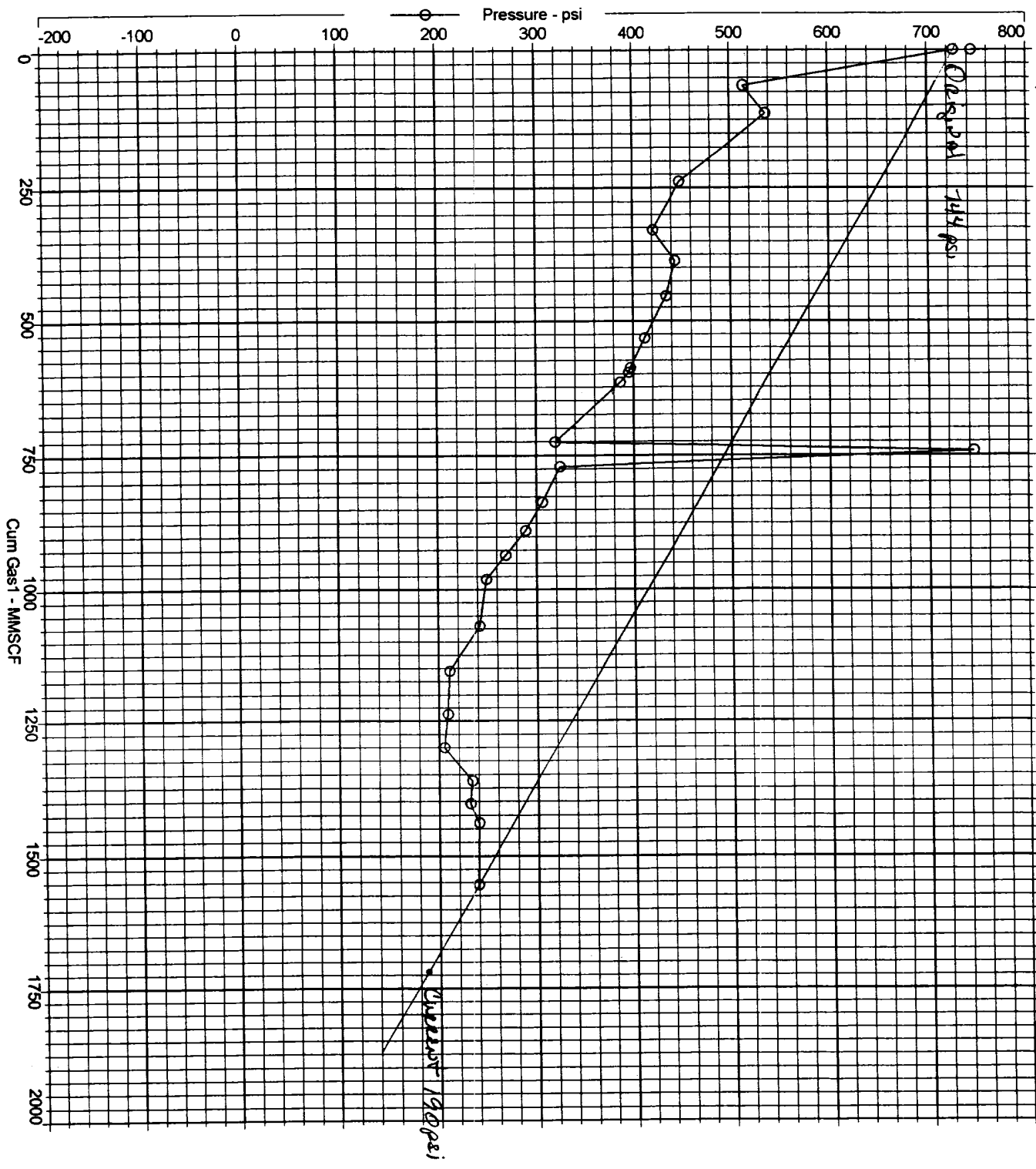
HANCOCK 3 5300102 (310270934842.792) Data: Jan. 1959-Aug. 2001

Operator: Unknown
Field:
Zone:
Type: Gas
Group: None

No
Active
Forecast

Production Cums
Oil: 0 MSTB
Gas: 1690.26 MMSCF
Water: 0.078516 MSTB
Cond: 7.641 MSTB

—○— Pressure - psi
Cum: 0



Cumulative Monthly Well Report January 1997 Through January 2002

Select By : Completions

Page No : 1
Report Number : R_290
Print Date : 1/14/2002, 11:57:53 AM

After Pictured Cells

Completion	Date	Oil		Gas		Water	
		Current	Cumulative	Current	Cumulative	Current	Cumulative
HANCOCK 3	10/31/1998	0.00	0.00	0.00	0.00	0.00	0.00
	11/30/1998	0.00	0.00	2,350.53	2,350.53	0.71	0.71
	12/31/1998	0.00	0.00	2,393.40	4,743.93	0.72	1.42
	1/31/1999	0.00	0.00	2,784.88	7,528.81	0.84	2.26
	2/28/1999	0.00	0.00	2,373.80	9,902.61	0.71	2.97
	3/31/1999	0.00	0.00	2,603.59	12,506.20	0.78	3.75
	4/30/1999	0.00	0.00	2,565.97	15,072.17	0.77	4.52
	5/31/1999	0.00	0.00	2,003.54	17,075.71	0.60	5.12
	6/30/1999	0.00	0.00	2,167.26	19,242.97	0.65	5.77
	7/31/1999	0.00	0.00	2,258.75	21,501.72	0.68	6.45
	8/31/1999	0.00	0.00	2,269.26	23,770.98	0.68	7.13
	9/30/1999	0.00	0.00	2,265.13	26,036.11	0.68	7.81
	10/31/1999	0.00	0.00	2,187.15	28,223.26	0.66	8.46
	11/30/1999	0.00	0.00	2,008.96	30,232.22	0.60	9.07
	12/31/1999	0.00	0.00	1,540.82	31,773.04	0.53	9.53
	1/31/2000	0.00	0.00	1,377.92	33,150.96	0.41	9.94
	2/29/2000	0.00	0.00	1,410.39	34,561.35	0.42	10.37
	3/31/2000	0.00	0.00	1,520.46	36,081.81	0.46	10.82
	4/30/2000	0.00	0.00	1,775.13	37,856.94	0.53	11.35
	5/31/2000	0.00	0.00	1,988.79	39,845.73	0.60	11.95
	6/30/2000	0.00	0.00	1,677.91	41,523.64	0.50	12.45
	7/31/2000	0.00	0.00	2,202.26	43,725.90	0.66	13.11
	8/31/2000	0.00	0.00	2,154.31	45,880.21	0.65	13.76
	9/30/2000	0.00	0.00	2,064.79	47,945.00	0.62	14.38
	10/31/2000	0.00	0.00	2,122.12	50,067.12	0.64	15.02
	11/30/2000	0.00	0.00	1,938.02	52,005.14	0.58	15.60
	12/31/2000	0.00	0.00	1,900.77	53,905.91	0.57	16.17
	1/31/2001	0.00	0.00	1,699.78	55,605.69	0.51	16.68
	2/28/2001	0.00	0.00	1,466.74	57,072.43	0.44	17.12
	3/31/2001	0.00	0.00	1,965.55	59,037.98	0.59	17.71
	4/30/2001	0.00	0.00	1,877.60	60,915.58	0.56	18.27
	5/31/2001	0.00	0.00	2,064.32	62,979.90	0.62	18.89
	6/30/2001	0.00	0.00	1,521.86	64,501.76	0.46	19.35
	7/31/2001	0.00	0.00	1,928.35	66,430.11	0.58	19.92
	8/31/2001	0.00	0.00	1,956.60	68,386.71	0.59	20.51
	9/30/2001	0.00	0.00	1,991.88	70,378.59	0.60	21.11
	10/31/2001	0.00	0.00	1,962.51	72,341.10	0.59	21.70
	11/30/2001	0.00	0.00	1,938.68	74,279.78	0.58	22.28
	12/31/2001	0.00	0.00	0.00	74,279.78	0.00	22.28
	1/31/2002	0.00	0.00	0.00	74,279.78	0.00	22.28

Blanco Mesa road

Completion	Date	Oil		Gas		Water	
		Current	Cumulative	Current	Cumulative	Current	Cumulative
HANCOCK 3	10/31/1998	68.24	68.24	0.00	0.00	0.00	0.00
	11/30/1998	0.00	68.24	1,157.72	1,157.72	15.27	15.27
	12/31/1998	0.00	68.24	1,178.84	2,336.56	15.55	30.82
	1/31/1999	0.00	68.24	1,371.66	3,708.22	18.09	48.91
	2/28/1999	0.00	68.24	1,169.18	4,877.40	15.42	64.33
	3/31/1999	0.00	68.24	1,282.37	6,159.77	16.91	81.25
	4/30/1999	0.00	68.24	1,263.83	7,423.60	16.67	97.92
	5/31/1999	0.00	68.24	986.82	8,410.42	13.02	110.93
	6/30/1999	0.00	68.24	1,067.46	9,477.88	14.08	125.01
	7/31/1999	0.00	68.24	1,112.52	10,590.40	14.67	139.69
	8/31/1999	0.00	68.24	1,117.69	11,708.09	14.74	154.43
	9/30/1999	0.00	68.24	1,115.66	12,823.75	14.72	169.15
	10/31/1999	0.00	68.24	1,077.26	13,901.01	14.21	183.35
	11/30/1999	0.00	68.24	989.49	14,890.50	13.05	196.41
	12/31/1999	0.00	68.24	758.91	15,649.41	10.01	206.42
	1/31/2000	0.00	68.24	678.68	16,328.09	8.95	206.42
	2/29/2000	0.00	68.24	694.67	17,022.76	9.16	215.37
	3/31/2000	0.00	68.24	748.88	17,771.64	9.88	224.53
	4/30/2000	0.00	68.24	874.32	18,645.96	11.53	234.41
	5/31/2000	0.00	68.24	979.55	19,625.51	12.92	245.94
	6/30/2000	0.00	68.24	826.44	20,451.95	12.92	258.86
	7/31/2000	1.74	68.24	1,084.70	21,536.65	10.90	269.76
	8/31/2000	0.00	69.98	1,061.08	22,597.73	14.31	284.07
	9/30/2000	0.00	69.98	1,016.99	23,614.72	16.33	300.40
	10/31/2000	0.00	69.98	1,045.23	24,659.95	13.41	313.81
	11/30/2000	0.00	69.98	954.55	25,614.50	13.79	327.60
	12/31/2000	0.00	69.98	936.20	26,550.70	12.59	340.19
	1/31/2001	0.00	69.98	837.20	27,387.90	12.35	352.54
	2/28/2001	18.10	88.08	722.43	28,110.33	11.04	363.58
	3/31/2001	0.00	88.08	968.11	29,078.44	12.77	409.28
	4/30/2001	0.00	88.08	924.79	30,003.23	12.20	422.05
	5/31/2001	1.17	89.25	1,016.76	31,019.99	13.41	434.25
	6/30/2001	0.00	89.25	749.57	31,769.56	9.89	447.66
	7/31/2001	0.00	89.25	949.79	32,719.35	12.53	457.55
	8/31/2001	0.00	89.25	963.70	33,683.05	12.71	470.07
	9/30/2001	0.00	89.25	981.08	34,664.13	12.94	482.78
	10/31/2001	0.00	89.25	966.61	35,630.74	12.75	495.72
	11/30/2001	0.00	89.25	954.87	36,585.61	12.60	508.47
	12/31/2001	0.00	89.25	0.00	36,585.61	0.00	521.07
	1/31/2002	0.00	89.25	0.00	36,585.61	0.00	521.07

Commingle Application for Hancock #3

Production Estimate for New Zone

The arithmetic average of estimated 1/2002 rates of producing Fruitland Coal wells in the offset 9 section was used to calculate the initial rate of the Hancock #3.

Well Name	Location	Rate (1/02)
McCulley LS # 4	SW 14 T28N R09W	99 mcf/d
Federal 14 # 1	NE 14 T28N R09W	297 mcf/d
Federal 15 # 1	SW 15 T28N R09W	232 mcf/d
Storey Gas Com A # 1	NE 15 T28N R09W	330 mcf/d
Sanchez A Com # 2	NE 16 T28N R09W	9.5 mcf/d
Lackey B LS # 12R	SW 21 T28N R09W	10 mcf/d
Lackey H # 709	SW 26 T28N R09W	46 mcf/d
Federal 28-9-28 # 1	NE 28 T28N R09W	133 mcf/d

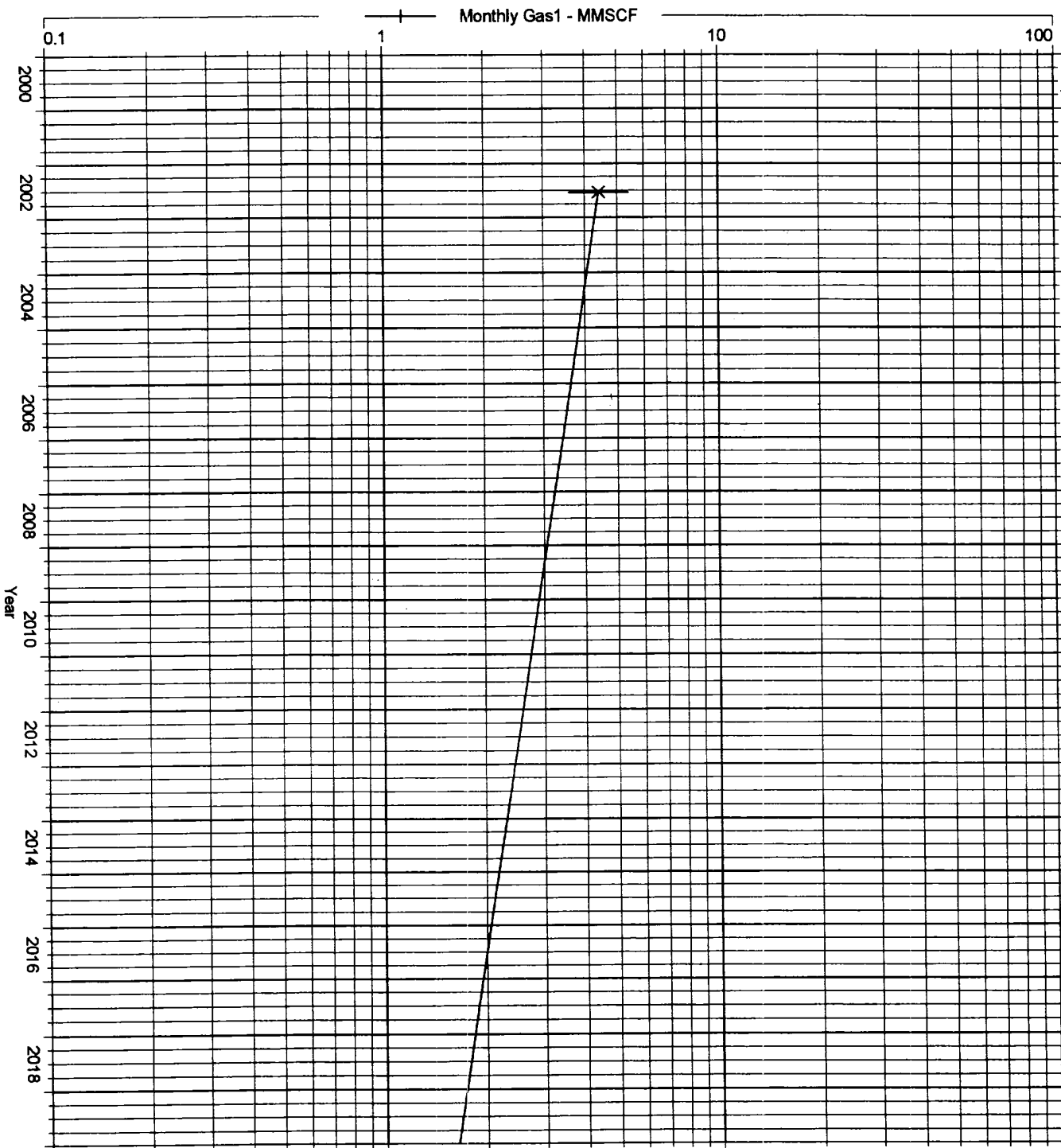
Attached are the 8 production plots for the wells listed above. Attached also, is the estimated production profile for the proposed recompletion in the Hancock #3. The production is estimated to start at 130 mcf/d and decline at 5.5%, consistent with the area average decline.

28N9W22A (DRILL FRTC) (28N9W22A (DRILLa8bcd516) Data: 0- .0

Operator:
Field:
Zone:
Type: Other
Group: None

Monthly Gas1 FC 1 (Rate-Time)
qi: 4.41344 MMSCF, Jul, 2002
qf: 0.304558 MMSCF, Oct, 2049
di(Exp): 5.5 CTD: 0 MMSCF
RR: 871.636 MMSCF Tot: 871.636 MMSCF

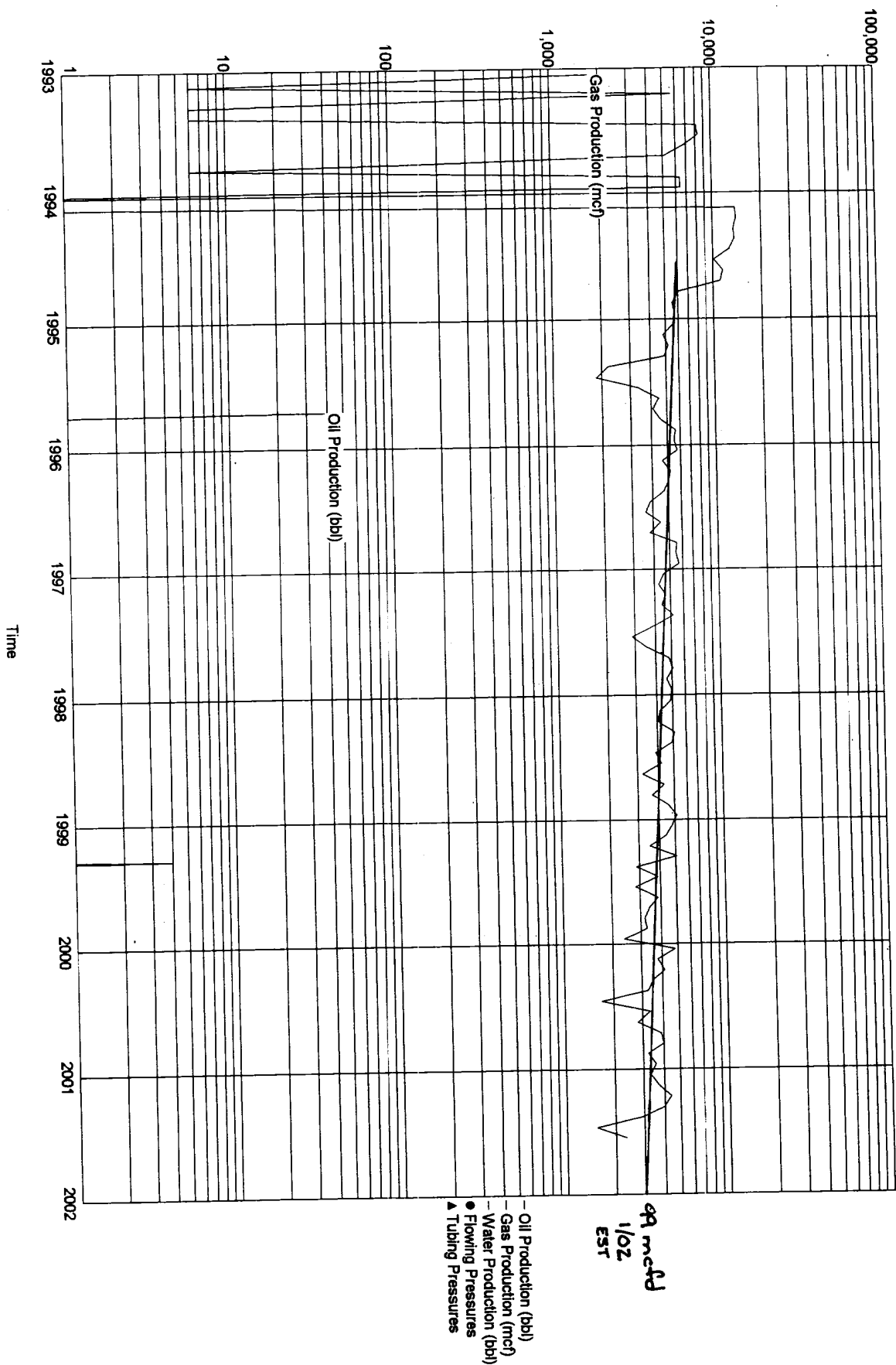
Production Cums
Oil: 0 MSTB
Gas: 0 MMSCF
Water: 0 MSTB
Cond: 0 MSTB



Monthly Gas1 - MMSCF
Cum: 0 MMSCF
* Monthly Gas1 FC 1 - MMSCF
versus time
qi: 4.41344 MMSCF, Jul, 2002
qf: 0.304558 MMSCF, Oct, 2049
di(Exponential): 5.5
RR: 871.636 MMSCF
EUR: 871.636 MMSCF
Corr coeff: N/A

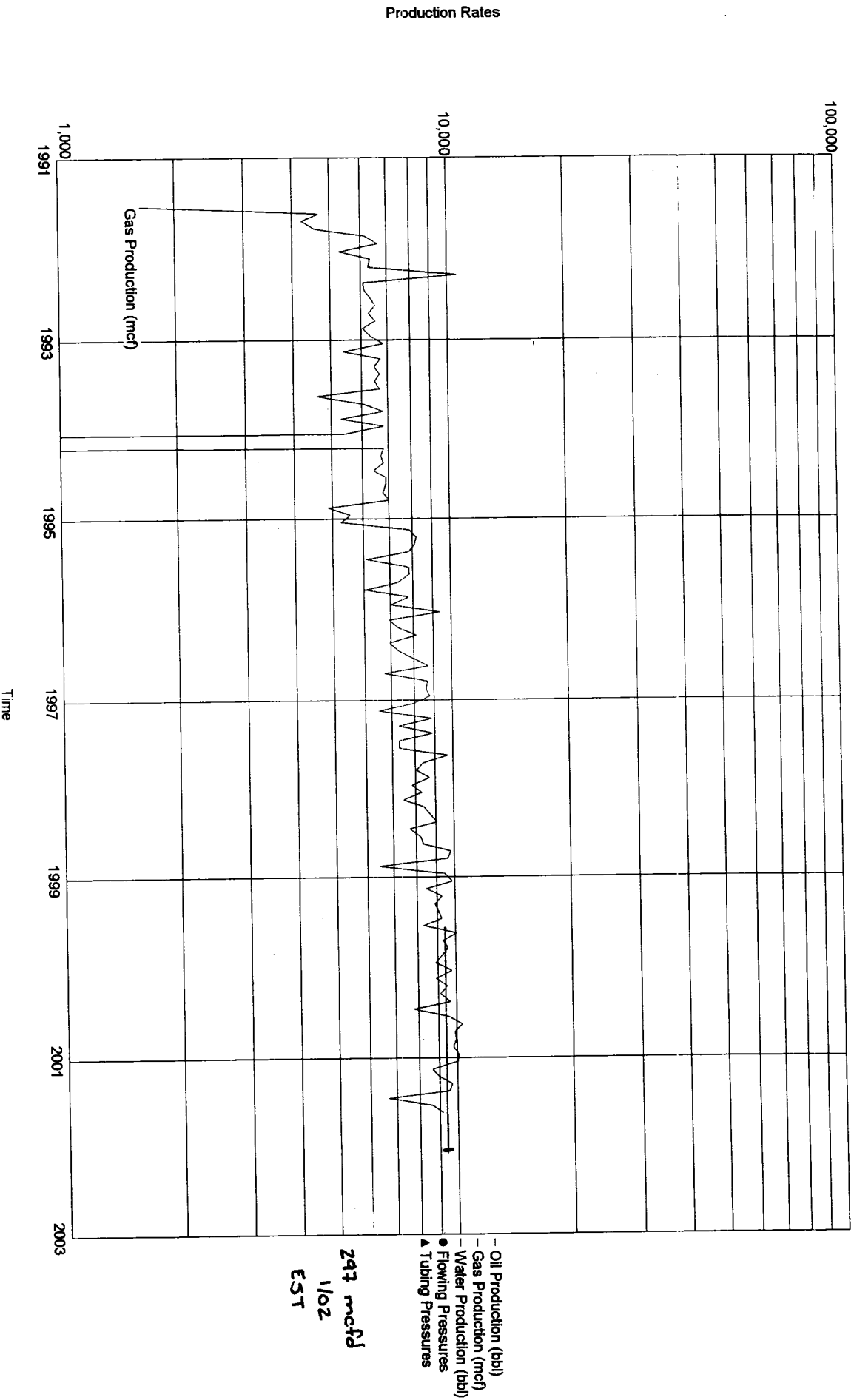
Lease Name: MCCULLEY LS
County, State: SAN JUAN, NM
Operator: AMOCO PRODUCTION COMPANY
Field: BASIN
Reservoir: FRUITLAND COAL
Location: 14 28N 9W SW NE SW

MCCULLEY LS - BASIN



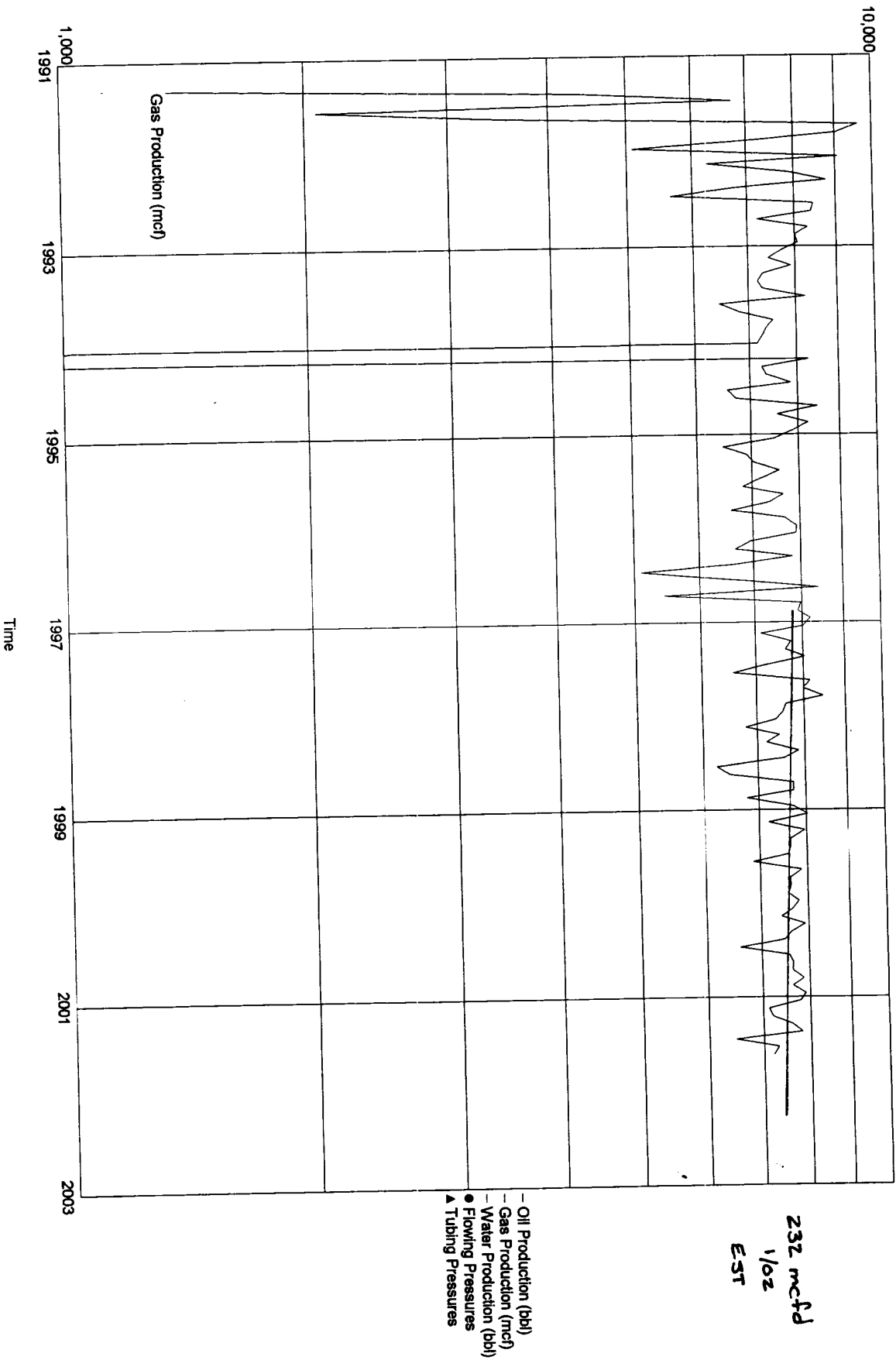
Lease Name: FEDERAL 14
County, State: SAN JUAN, NM
Operator: WEST LARGO CORPORATION
Field: BASIN
Reservoir: FRUITLAND COAL
Location: 14 28N 9W NW SE NE

FEDERAL 14 - BASIN



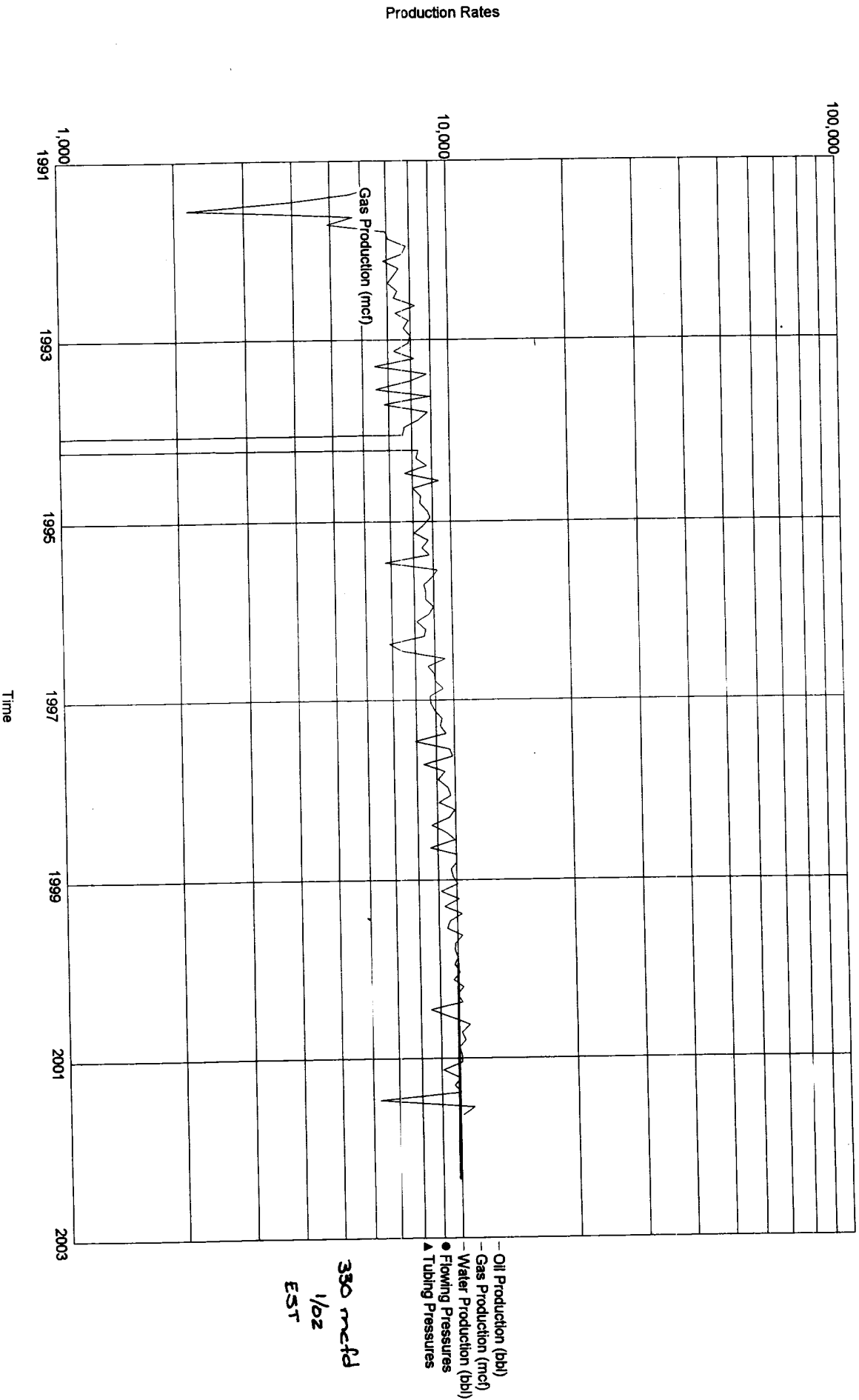
Lease Name: FEDERAL 15
County, State: SAN JUAN, NM
Operator: WEST LARGO CORPORATION
Field: BASIN
Reservoir: FRUITLAND COAL
Location: 15 28N 9W NW SE SW

FEDERAL 15 - BASIN



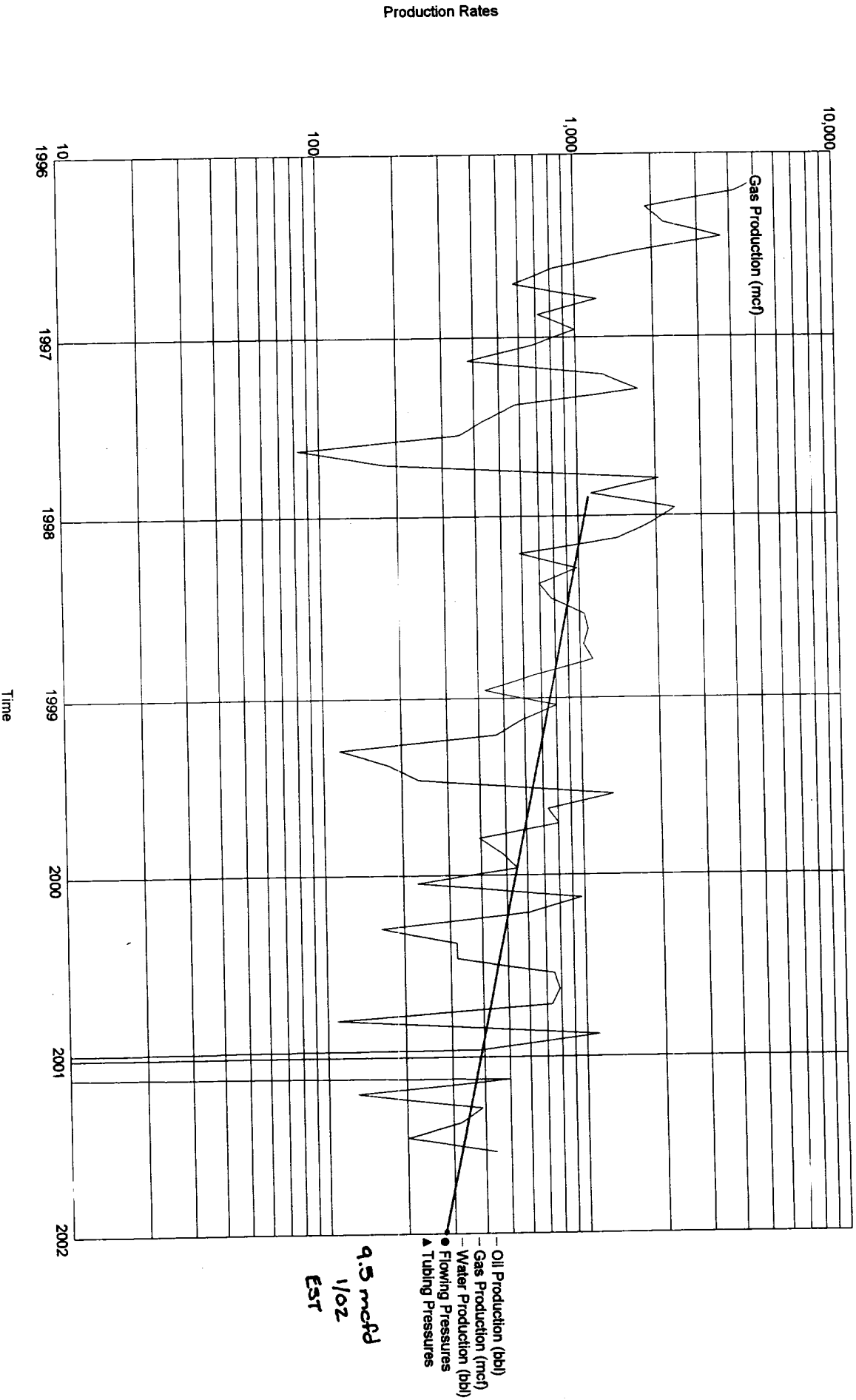
Lease Name: STOREY GAS COM A
County, State: SAN JUAN, NM
Operator: WEST LARGO CORPORATION
Field: BASIN
Reservoir: FRUITLAND COAL
Location: 15 28N 9W SE SW NE

STOREY GAS COM A - BASIN



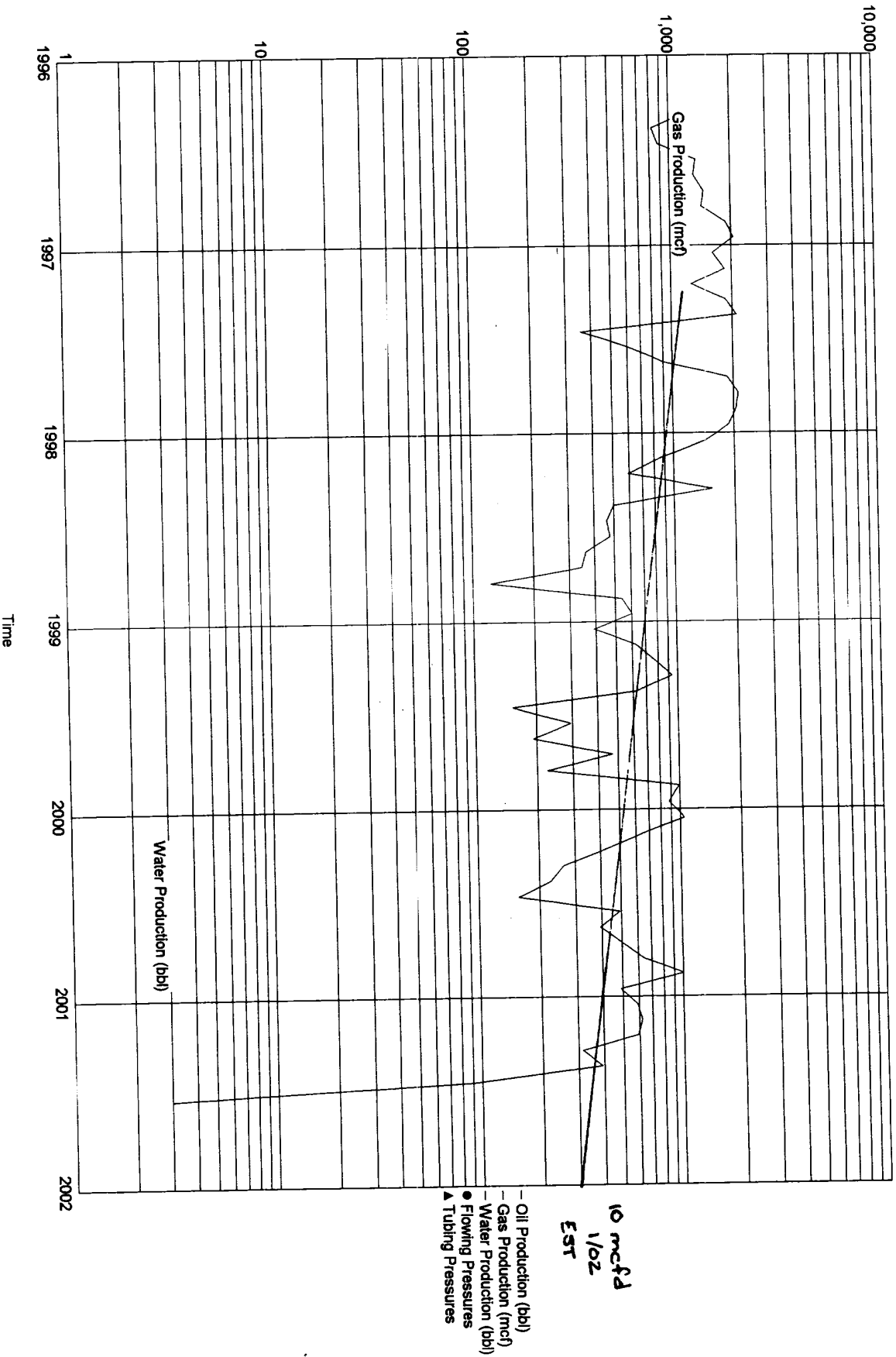
Lease Name: SANCHEZ A COM
County, State: SAN JUAN, NM
Operator: BURLINGTON RESOURCES OIL & GAS COMPA
Field: BASIN
Reservoir: FRUITLAND COAL
Location: 16 28N 9W NE SW NW

SANCHEZ A COM - BASIN



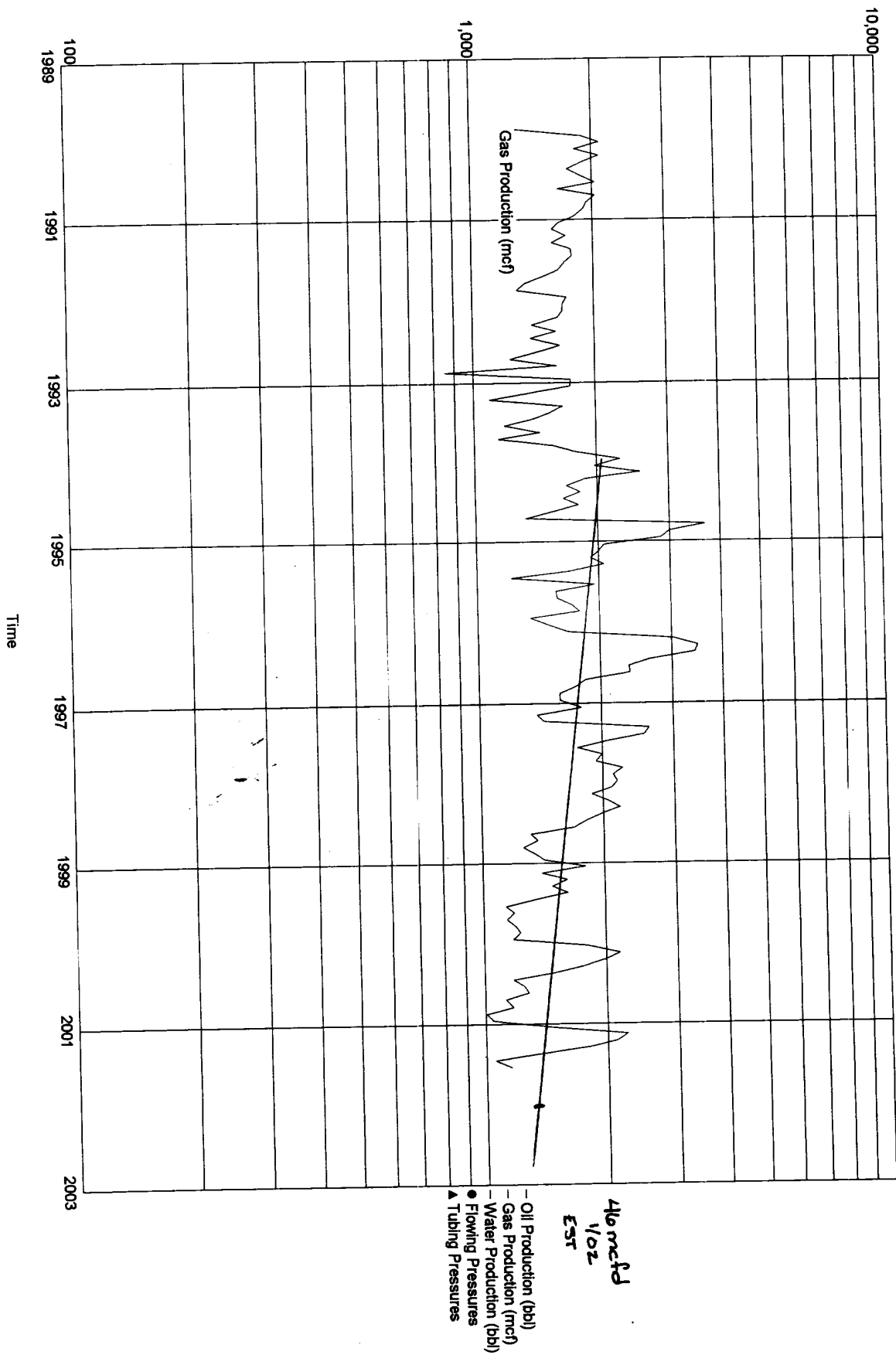
Lease Name: LACKEY B LS
County, State: SAN JUAN, NM
Operator: CONOCO INCORPORATED
Field: BASIN
Reservoir: FRUITLAND COAL
Location: 21 28N 9W SE NW SW

LACKEY B LS - BASIN



Lease Name: LACKEY H
County, State: SAN JUAN, NM
Operator: BURLINGTON RESOURCES OIL & GAS COMPA
Field: BASIN
Reservoir: FRUITLAND COAL
Location: 26 28N 9W NW SE SW

LACKEY H - BASIN



Lease Name: FEDERAL 28-9-28
County, State: SAN JUAN, NM
Operator: SG INTERESTS I LIMITED
Field: BASIN
Reservoir: FRUITLAND COAL
Location: 28 28N 9W NW SW NE

FEDERAL 28-9-28 - BASIN

