

DATE IN 4/13/01	SUPPENS 5/2/01	ENGINEER DC	LOGGED IN MN	TYPE DHC	APP NO. 110646450
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ABOVE THIS LINE FOR DIVISION USE ONLY

NEW MEXICO OIL CONSERVATION DIVISION

- Engineering Bureau -

1220 South St. Francis Drive, Santa Fe, NM 87505



ADMINISTRATIVE APPLICATION COVERSHEET

THIS COVERSHEET IS MANDATORY FOR ALL ADMINISTRATIVE APPLICATIONS FOR EXCEPTIONS TO DIVISION RULES AND REGULATIONS WHICH REQUIRE PROCESSING AT THE DIVISION LEVEL IN SANTA FE

Application Acronyms:

[NSL-Non-Standard Location] **[NSP-Non-Standard Proration Unit]** **[SD-Simultaneous Dedication]**
[DHC-Downhole Commingling] **[CTB-Lease Commingling]** **[PLC-Pool/Lease Commingling]**
[PC-Pool Commingling] **[OLS - Off-Lease Storage]** **[OLM-Off-Lease Measurement]**
[WFX-Waterflood Expansion] **[PMX-Pressure Maintenance Expansion]**
[SWD-Salt Water Disposal] **[IPI-Injection Pressure Increase]**
[EOR-Qualified Enhanced Oil Recovery Certification] **[PPR-Positive Production Response]**

[1] TYPE OF APPLICATION - Check Those Which Apply for [A]

[A] Location - Spacing Unit - Simultaneous Dedication
☐ NSL ☐ NSP ☐ SD

Check One Only for [B] or [C]

[B] Commingling - Storage - Measurement

☒ DHC ☐ CTB ☐ PLC ☐ PC ☐ OLS ☐ OLM

[C] Injection - Disposal - Pressure Increase - Enhanced Oil Recovery

☐ WFX ☐ PMX ☐ SWD ☐ IPI ☐ EOR ☐ PPR

[2] NOTIFICATION REQUIRED TO: - Check Those Which Apply, or Does Not Apply

[A] ☒ Working, Royalty or Overriding Royalty-Interest Owners

[B] ☐ Offset Operators, Leaseholders or Surface Owner

[C] ☐ Application is One Which Requires Published Legal Notice

[D] ☒ Notification and/or Concurrent Approval by BLM or SLO
 U.S. Bureau of Land Management - Commissioner of Public Lands, State Land Office

[E] ☐ For all of the above, Proof of Notification or Publication is Attached, and/or,

[F] ☐ Waivers are Attached

[3] INFORMATION / DATA SUBMITTED IS COMPLETE - Certification

I hereby certify that I, or personnel under my supervision, have reviewed the applicable Rules and Regulations of the Oil Conservation Division. Further, I assert that the attached application for administrative approval is accurate and complete to the best of my knowledge and where applicable, verify that all interest (WI, RI, ORRI) is common.

I understand that any omission of data (including API numbers, pool codes, etc.), pertinent information and any required notification is cause to have the application package returned with no action taken.

Note: Statement must be completed by an individual with managerial and/or supervisory capacity.

Peggy Cole

Print or Type Name

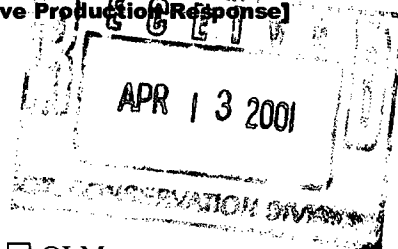
Signature

Regulatory Supervisor

Title

Date

pbradfield@br-inc.com
 e-mail Address



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

APPLICATION FOR DOWNHOLE COMMINGLING

Burlington Resources Oil and Gas
Operator

3401 East 30th Street, Farmington, New Mexico
Address

Feuille A 5E K-04-029N-010W San Juan
Lease Well No. Unit Letter-Section-Township-Range County

OGRID No. 14538 Property Code 7015 API No. 30-045-26249 Lease Type: X Federal State Fee

DATA ELEMENT	UPPER ZONE	INTERMEDIATE ZONE	LOWER ZONE
Pool Name	<i>Und</i> 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	4028'-4785'	6679'-6773'
Method of Production (Flowing or Artificial Lift)	New Zone	Artificial Lift	Artificial Lift
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)	Original – 1209 psi From HUBBELL #9 - OFFSET (see attachment)	Current – 857 psi Original – 857 psi (see attachment)	Current – 719 psi Original – 1825 psi (see attachment)
Oil Gravity or Gas BTU (Degree API or Gas BTU)	BTU 1195 From HUBBELL #9 - OFFSET	BTU 1219 4/00 – Commingled w/ DK	BTU 1082 Sample Date 9/90
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: N/A Rates:	Date: Dec 2000 – Feb 2001 Rates: 15 MCPFD Commingled with DK	Date: Dec 2000 – Feb 2001 Rates: 288 MCPFD Commingled with MV
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 Supplied Upon Completion	Oil Gas Supplied Upon Completion	Oil Gas Supplied Upon Completion

ADDITIONAL DATA

Are all working, royalty and overriding royalty interests identical in all commingled zones? Yes No X
If not, have all working, royalty and overriding royalty interest owners been notified by certified mail? 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 *J. Tom Loveland* TITLE Production Engineer DATE 4/12/01
nco
TYPE OR PRINT NAME Lafell Thomas Loveland TELEPHONE NO. (505) 326-9700

District I
PO Box 1980, Hobbs, NM 88241-1980

District II
PO Drawer DD, Artesia, NM 88211-0719

District III
1000 Rio Brazos Rd., Aztec, NM 87410

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

State of New Mexico
Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION

PO 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

070 FARMINGTON, NM AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

*API Number 30-045-26249		*Pool Code 82329/72319/71599	*Pool Name Otero Chacra/Blanco Mesaverde/Basin Dakota
*Property Code 7015	*Property Name FEUILLE A		*Well Number 5E
*OGRID No. 14538	*Operator Name BURLINGTON RESOURCES OIL & GAS COMPANY		*Elevation 5892'

¹⁰ Surface Location

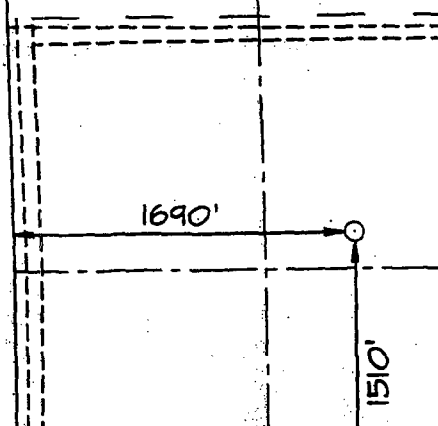
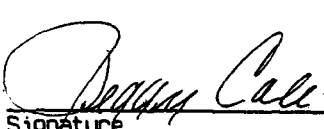
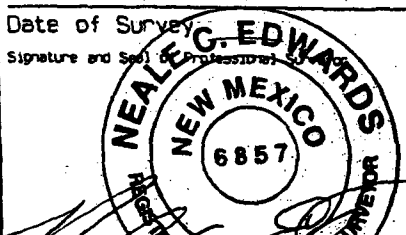
UL or lot no.	Section	Township	Range	Lot 1st	Feet from the	North/South line	Feet from the	East/West line	County
K	4	29N	10W		1510	SOUTH	1690	WEST	SAN JUAN

¹¹ Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot 1st	Feet from the	North/South line	Feet from the	East/West line	County

¹² Dedicated Acres CH: SW/145.58 MV/DK: S/292.04	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.
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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 *NOT RESURVEYED* PREPARED FROM A PLAT BY FRED B. KERR, JR. DATED FEBRUARY 12, 1985 	¹⁷ OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.  Signature Peggy Cole Printed Name Regulatory Supervisor Title Date 12-12-00
	¹⁸ SURVEYOR CERTIFICATION I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by or under my supervision, and that the same is true and correct to the best of my belief. MARCH 5, 1999 Date of Survey  Signature and Seal of Professional Surveyor NEALE G. EDWARDS NEW MEXICO 6857

FEVILLE A 5E
029N 010W 4 K



2 = Hubbell 9 - CH offset

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN DUPLICATE*

(See other instructions on reverse side)

FOR APPROVED
OMB NO. 1004-0137

Expires: December 31, 1991

5. LEASE DESIGNATION AND SERIAL NO.

SF-078197

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME, WELL NO.

Feuille A #5E

9. API WELL NO.

30-045-26249

10. FIELD AND POOL, OR WILDCAT

Blanco MV/Basin DK

11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA

Sec.4, T-29-N, R-10-W

WELL COMPLETION OR RECOMPLETION REPORT AND LOG*

1a. TYPE OF WELL:

OIL WELL ☐ GAS WELL ☒ DRY ☐ Other ☐

b. TYPE OF COMPLETION:

NEW WELL ☐ WORK OVER ☐ DEEP-EN ☐ PLUG BACK ☐ DIFF. RESVR ☒ Other ☐

2. NAME OF OPERATOR

BURLINGTON RESOURCES OIL & GAS COMPANY

3. ADDRESS AND TELEPHONE NO.

PO BOX 4289, Farmington, NM 87499 (505) 326-9700

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)*

At surface 1510'FSL, 1690'FWL

DHC-2442

At top prod. interval reported below

At total depth

14. PERMIT NO.

DATE ISSUED

12. COUNTY OR PARISH

San Juan

13. STATE

New Mexico

15. DATE SPUNDED

5-5-85

16. DATE T.D. REACHED

6-2-85

17. DATE COMPL. (Ready to prod.)

1-12-00

18. ELEVATIONS (OF, RKB, RT, BR, ETC.)*

5892'GL

19. ELEV. CASINGHEAD

20. TOTAL DEPTH, MD & TVD

6975'

21. PLUG, BACK T.D., MD & TVD

6954'

22. IF MULTIPLE COMPL., HOW MANY*

two

23. INTERVALS DRILLED BY

ROTARY TOOLS

CABLE TOOLS

0-6975'

24. PRODUCTION INTERVAL (S) OF THIS COMPLETION-TOP, BOTTOM, NAME (MD AND TVD)*

4028-4785' Mesaverde commingle w/Dakota

25. WAS DIRECTIONAL SURVEY MADE

no

26. TYPE ELECTRIC AND OTHER LOGS RUN
CBL-GR-CCL; Comp. Den. Comp. Neutron Log; IND-G-RL; Temp survey

27. WAS WELL CORED

no

28. CASING RECORD (Report all strings set in well)

CASING SIZE/GRADE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	TOP OF CEMENT, CEMENTING RECORD	AMOUNT PULLED
9 5/8	36	225'	12 1/4	103 cu ft	
4 1/2	10.5	6975'	7 7/8	1915 cu ft	

29. LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
					2 3/8	6710'	

30. TUBING RECORD

31. PERFORATION RECORD (Interval, size and number)

4028, 4036, 4044, 4054, 4058, 4246, 4250, 4253, 4256, 4277, 4280, 4284, 4394, 4398, 4402, 4436, 4443, 4450, 4454, 4461, 4466, 4513, 4517, 4521, 4524, 4583, 4588, 4593, 4597, 4601, 4605, 4611, 4619, 4622, 4627, 4632, 4637, 4647, 4660, 4667, 4705, 4713, 4722, 4734, 4755, 4767, 4775, 4785

32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
4028-4524'	150,000 gal slk wtr, 120,000# 20/40 AZ snd
4583-4785'	150,000 gal slk wtr, 120,000# 20/40 AZ snd

33. PRODUCTION

DATE FIRST PRODUCTION	PRODUCTION METHOD (Flowing, gas lift, pumping-size and type of pump)	WELL STATUS (Producing or shut-in)
	Flowing	SI

DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N FOR TEST PERIOD	OIL-BBL	GAS-MCF	WATER-BBL	GAS-OIL RATIO
1-12-00					1958 Pitot gauge		

FLOW, TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE	OIL-BBL	GAS-MCF	WATER-BBL	OIL GRAVITY-API (CORR.)
SI 738	SI 759					

34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.)

To be sold

TEST WITNESSED BY

35. LIST OF ATTACHMENTS

None

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records

SIGNED

TITLE

Regulatory Administrator

DATE

1-14-00

*(See Instructions and Spaces for Additional Data on Reverse Side)

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

OPERATOR

FARMINGTON FIELD OFFICE
BY 

ACCEPTED FOR RECORD

FEB 01 2000

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN DATE*

Form approved.
Budget Bureau No. 1004-0137
Expires August 31, 1985

WELL COMPLETION OR RECOMPLETION REPORT AND LOG *

1a. TYPE OF WELL: OIL WELL ☐ GAS WELL ☒ DRY ☐ Other _____

b. TYPE OF COMPLETION:

NEW WELL ☒ WORK OVER ☐ DEEP-EN ☐ PLUG BACK ☐ DIFF. RESVR. ☐ Other _____

2. NAME OF OPERATOR

E1 Paso Natural Gas Company

3. ADDRESS OF OPERATOR

P. O. Box 4289, Farmington, NM 87499

4. LOCATION OF WELL (Report location clearly and in accordance with state requirements)

At surface 1510'S 1690'W

At top prod. interval reported below

At total depth

BUREAU OF LAND MANAGEMENT
FARMINGTON RESOURCE AREA

14. PERMIT NO. DATE ISSUED

5. LEASE DESIGNATION AND SERIAL NO.

SF 078197

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

Feuille A

9. WELL NO.

5E

10. FIELD AND POOL, OR WILDCAT

Basin Dakota

11. SEC. T. R. M., OR BLOCK AND SURVEY OR AREA

Sec. 4, T-29-N, R-10-W
NMPM

12. COUNTY OR PARISH

San Juan

13. STATE

NM

15. DATE SPUDDED

5-5-85

16. DATE T.D. REACHED

6-2-85

17. DATE COMPL. (Ready to prod.)

7-5-85

18. ELEVATIONS (DF, RKB, RT, GR, ETC.)*

5892' GL

19. ELEV. CASINGHEAD

5892'

20. TOTAL DEPTH, MD & TVD

6975'

21. PLUG, BACK T.D., MD & TVD

6954'

22. IF MULTIPLE COMPL. HOW MANY*

One

23. INTERVALS DRILLED BY

ROTARY TOOLS

Rotary

CABLE TOOLS

NO

24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)*

6679-6773 (Basin Dakota)

25. WAS DIRECTIONAL SURVEY MADE

NO

26. TYPE ELECTRIC AND OTHER LOGS RUN

CBL-GR-CCL; Comp. Den. Comp. Neutron Log; Ind-G-RL; Temp Survey

27. WAS WELL CORED

NO

28. CASING RECORD (Report all strings set in well)

CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
9 5/8"	36	225	12 1/4"	103 cu ft	
4 1/2"	10.5	6975	7 7/8"	1915 cu ft	

29. LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
					2 3/8"	6771'	

31. PERFORATION RECORD (Interval, size and number)

6679, 6682, 6685, 6705, 6708, 6720, 6723, 6726, 6740, 6743, 6746, 6749, 6752, 6755, 6758, 6761, 6764, 6767, 6773, w/20 SPZ.

32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
6679-6773	55,000# 20/40 sand & 64,325 gals wtr

33.* PRODUCTION

DATE FIRST PRODUCTION		PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump)				WELL STATUS (Producing or shut-in)	
6-22-85		Flowing				Shut in	
DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD	OIL—BBL.	GAS—MCF.	WATER—BBL.	GAS-OIL RATIO
7-5-85	3 Hrs.	3/4"		0	277 MCF	0	
FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE	OIL—BBL.	GAS—MCF.	WATER—BBL.	OIL GRAVITY-API (CORR.)	
SI 1492	SI 1540		0	1911	0		

34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.)

Shut in to be Sold

TEST WITNESSED BY

Bobby Haire

35. LIST OF ATTACHMENTS

Cement Record

ACCEPTED FOR RECORD

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records.

SIGNED

[Signature]

TITLE

Drilling Clerk

DATE JUL 25 1985 7-18-85 FARMINGTON RESOURCE AREA

*(See Instructions and Spaces for Additional Data on Reverse Side)BY

OPERATOR

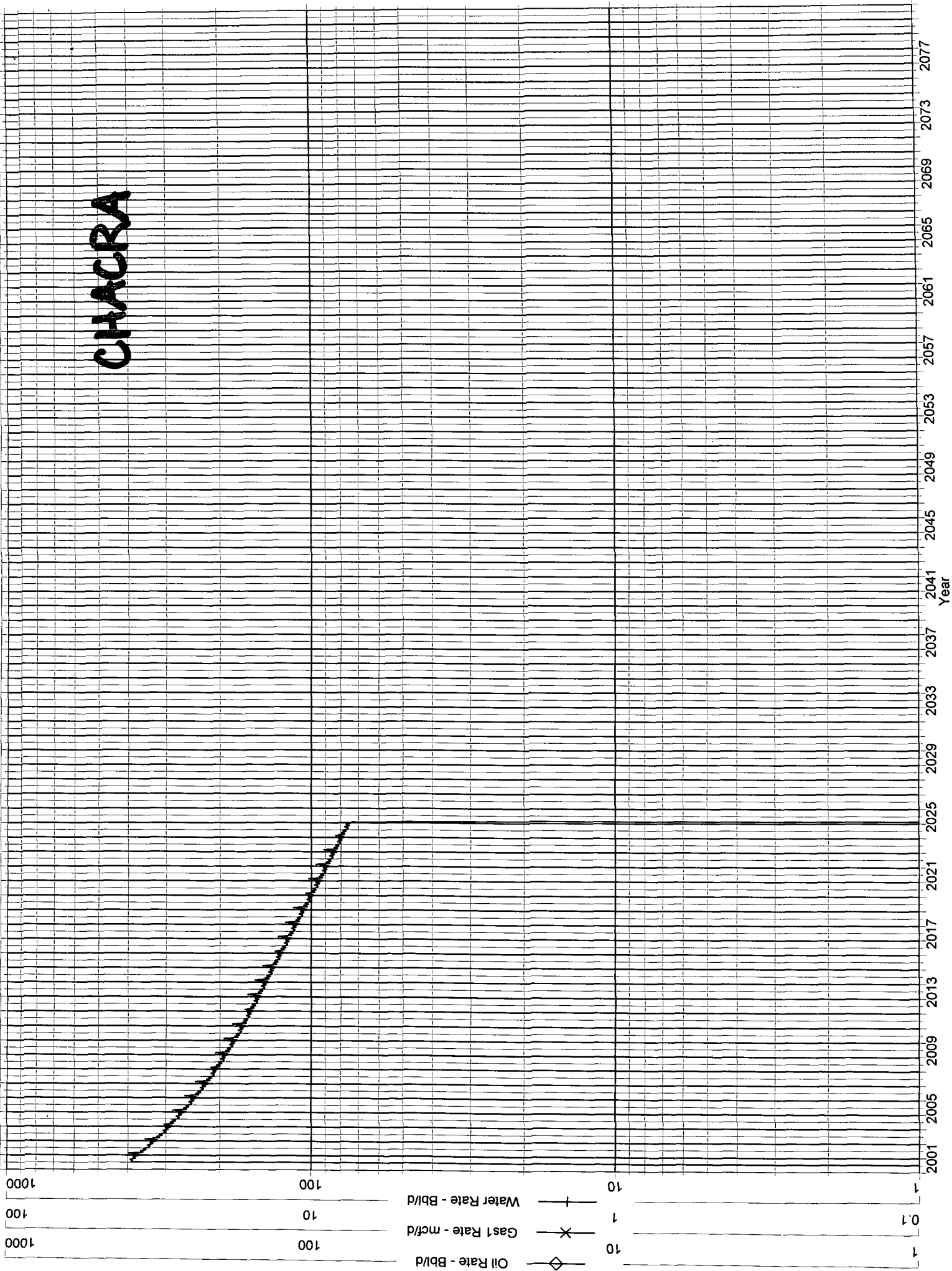
FEUILLE A #5E
 Bottom Hole Pressures
 Flowing and Static BHP
 Cullender and Smith Method
 Version 1.0 3/13/94

CHACRA		MESAVERDE	
<u>CH-Current</u>		<u>MV-Current</u>	
GAS GRAVITY	0	GAS GRAVITY	0.701
COND. OR MISC. (C/M)	C	COND. OR MISC. (C/M)	C
%N2	0	%N2	0.35
%CO2	0	%CO2	0.67
%H2S	0	%H2S	0
DIAMETER (IN)	0	DIAMETER (IN)	1.995
DEPTH (FT)	0	DEPTH (FT)	4407
SURFACE TEMPERATURE (DEG F)	60	SURFACE TEMPERATURE (DEG F)	60
BOTTOMHOLE TEMPERATURE (DEG F)	0	BOTTOMHOLE TEMPERATURE (DEG F)	124
FLOWRATE (MCFPD)	0	FLOWRATE (MCFPD)	0
SURFACE PRESSURE (PSIA)	0	SURFACE PRESSURE (PSIA)	759
BOTTOMHOLE PRESSURE (PSIA)	#DIV/0!	BOTTOMHOLE PRESSURE (PSIA)	856.9
<u>CH-Original</u>		<u>MV-Original</u>	
GAS GRAVITY	0.678	GAS GRAVITY	0.701
COND. OR MISC. (C/M)	C	COND. OR MISC. (C/M)	C
%N2	0.26	%N2	0.35
%CO2	0.3	%CO2	0.67
%H2S	0	%H2S	0
DIAMETER (IN)	2.441	DIAMETER (IN)	1.995
DEPTH (FT)	3004	DEPTH (FT)	4407
SURFACE TEMPERATURE (DEG F)	60	SURFACE TEMPERATURE (DEG F)	60
BOTTOMHOLE TEMPERATURE (DEG F)	97	BOTTOMHOLE TEMPERATURE (DEG F)	124
FLOWRATE (MCFPD)	0	FLOWRATE (MCFPD)	0
SURFACE PRESSURE (PSIA)	1107	SURFACE PRESSURE (PSIA)	759
BOTTOMHOLE PRESSURE (PSIA)	1208.7	BOTTOMHOLE PRESSURE (PSIA)	856.7

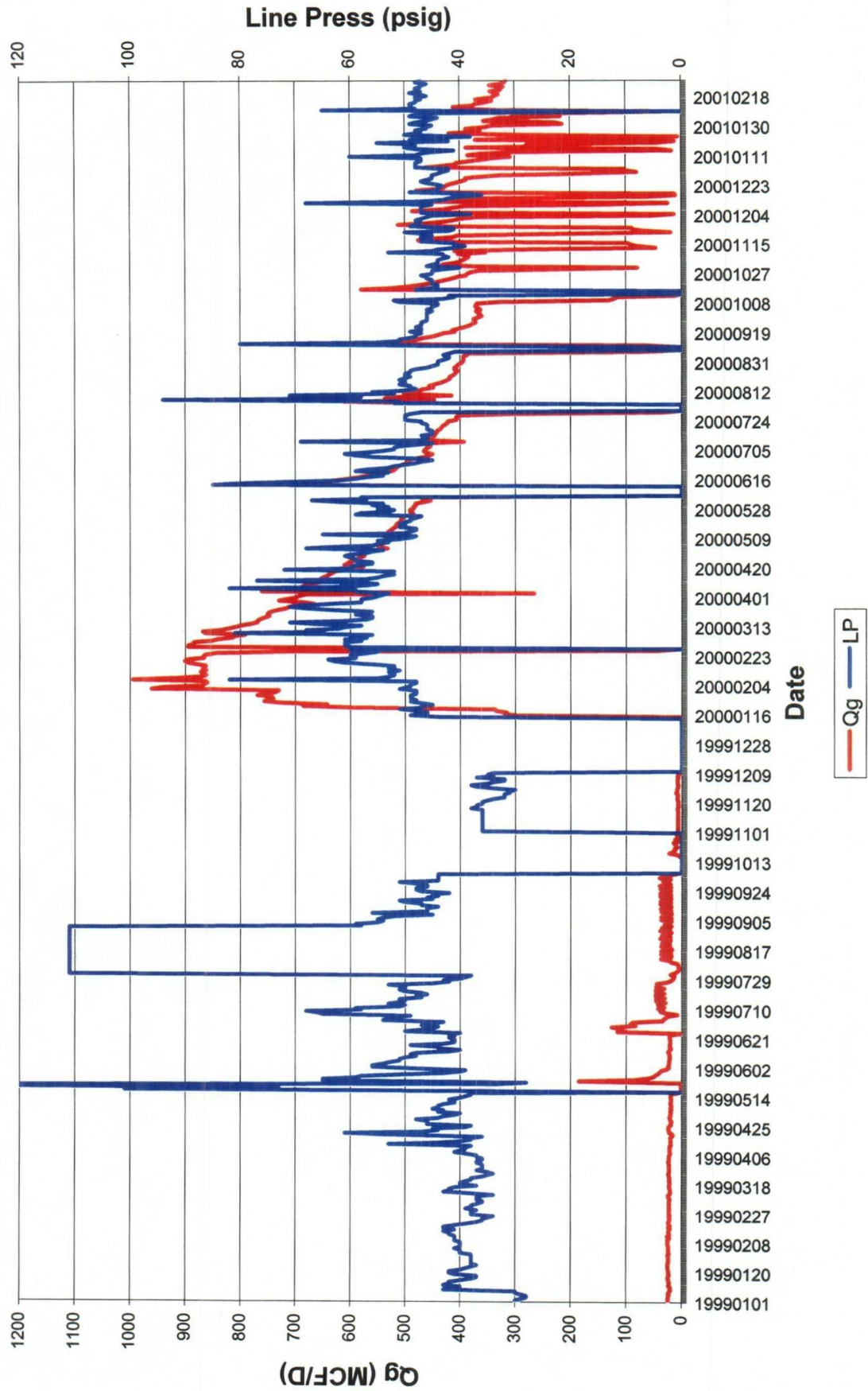
FEUILLE A #5E
Bottom Hole Pressures
Flowing and Static BHP
Cullender and Smith Method
Version 1.0 3/13/94

DAKOTA			
<u>DK-Current</u>		<u>Current</u>	
GAS GRAVITY	0.649	GAS GRAVITY	0
COND. OR MISC. (C/M)	C	COND. OR MISC. (C/M)	C
%N2	0.75	%N2	0
%CO2	1.7	%CO2	0
%H2S	0	%H2S	0
DIAMETER (IN)	1.995	DIAMETER (IN)	0
DEPTH (FT)	6726	DEPTH (FT)	0
SURFACE TEMPERATURE (DEG F)	60	SURFACE TEMPERATURE (DEG F)	60
BOTTOMHOLE TEMPERATURE (DEG F)	158	BOTTOMHOLE TEMPERATURE (DEG F)	137
FLOWRATE (MCFPD)	0	FLOWRATE (MCFPD)	0
SURFACE PRESSURE (PSIA)	614	SURFACE PRESSURE (PSIA)	0
BOTTOMHOLE PRESSURE (PSIA)	719.0	BOTTOMHOLE PRESSURE (PSIA)	#DIV/0!
<u>DK-Original</u>		<u>Original</u>	
GAS GRAVITY	0.6316	GAS GRAVITY	0
COND. OR MISC. (C/M)	C	COND. OR MISC. (C/M)	C
%N2	0.47	%N2	0
%CO2	1.76	%CO2	0
%H2S	0	%H2S	0
DIAMETER (IN)	1.995	DIAMETER (IN)	0
DEPTH (FT)	6726	DEPTH (FT)	0
SURFACE TEMPERATURE (DEG F)	60	SURFACE TEMPERATURE (DEG F)	60
BOTTOMHOLE TEMPERATURE (DEG F)	158	BOTTOMHOLE TEMPERATURE (DEG F)	137
FLOWRATE (MCFPD)	0	FLOWRATE (MCFPD)	0
SURFACE PRESSURE (PSIA)	1540	SURFACE PRESSURE (PSIA)	0
BOTTOMHOLE PRESSURE (PSIA)	1825.3	BOTTOMHOLE PRESSURE (PSIA)	#DIV/0!

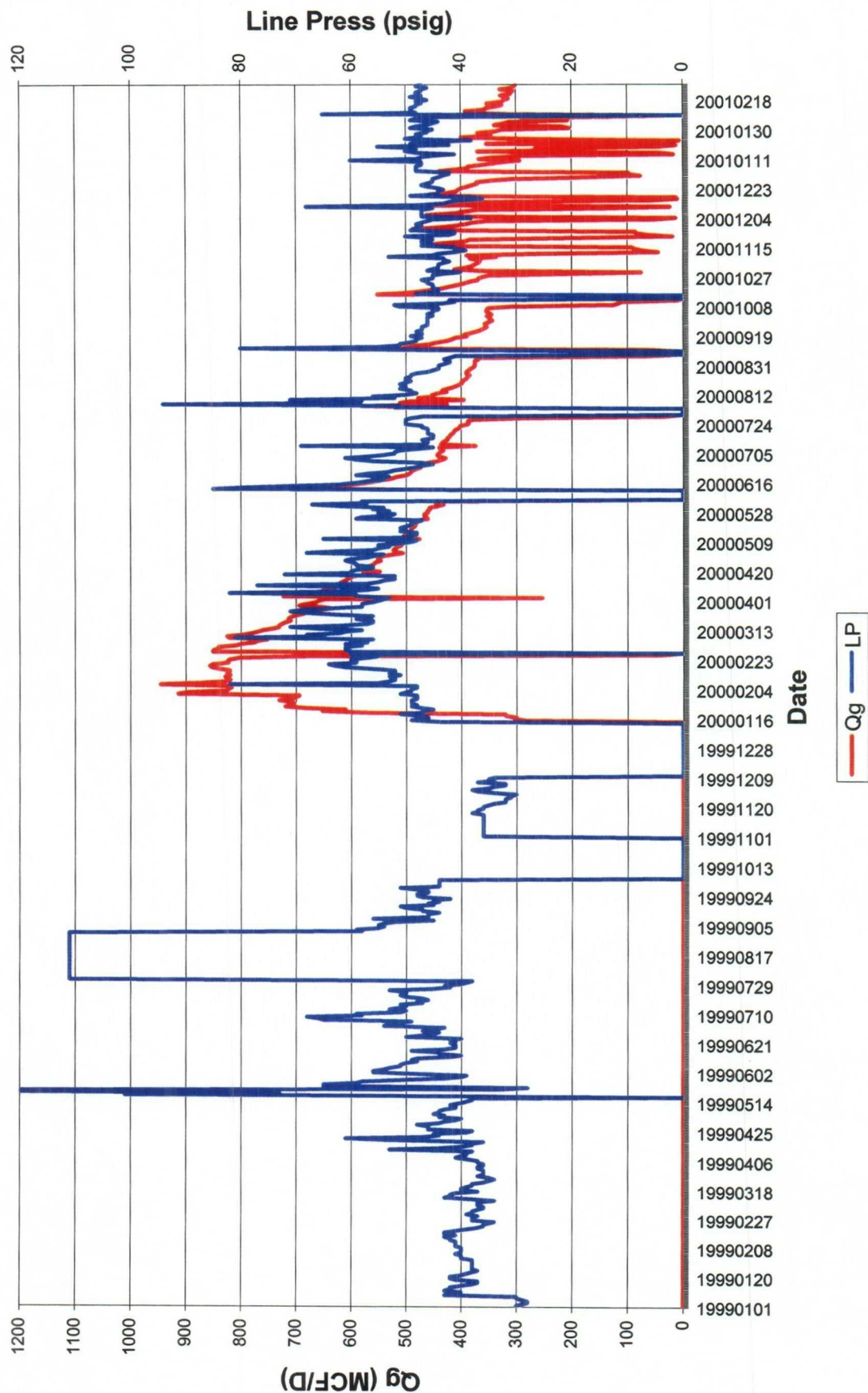
CHACRA



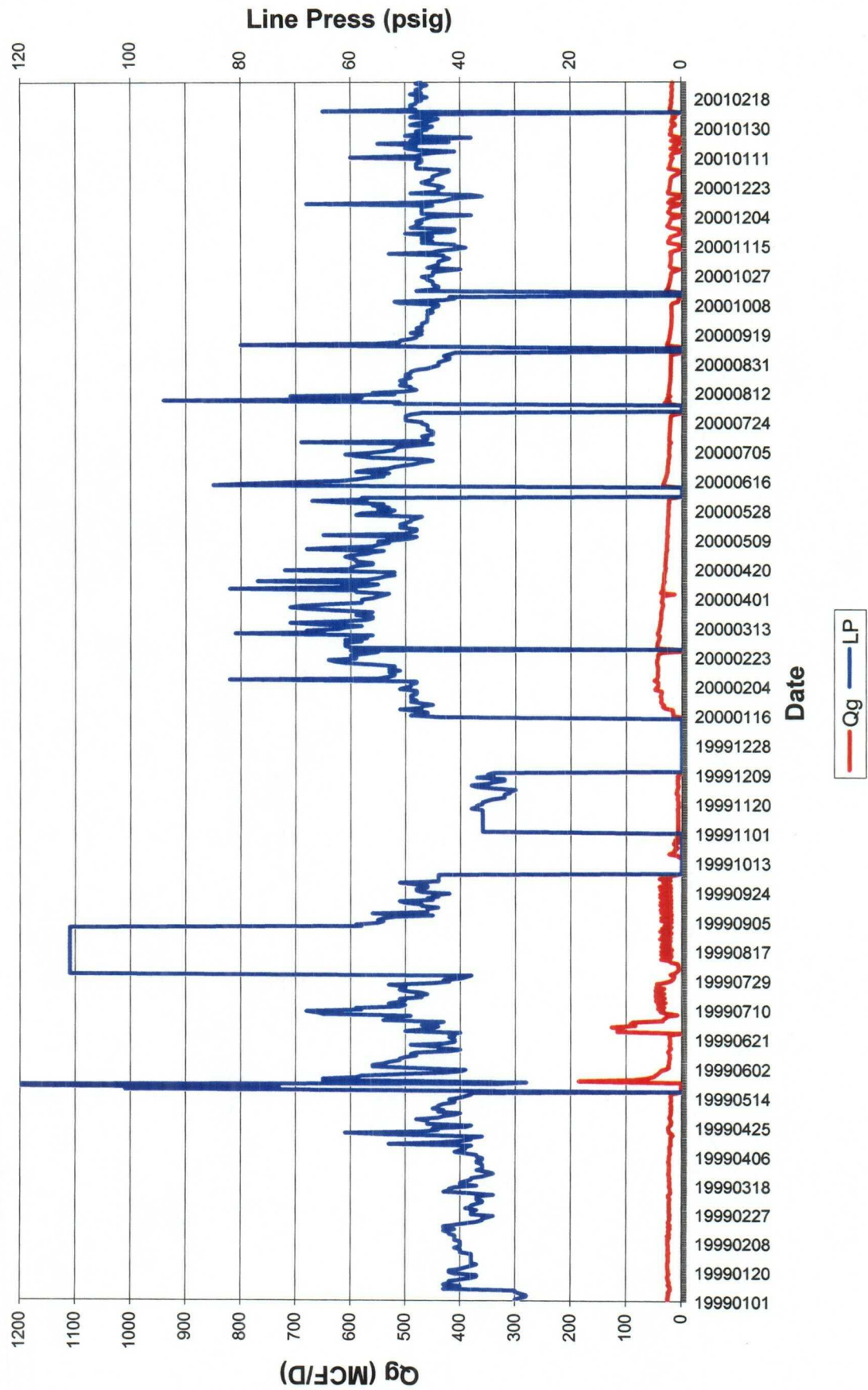
Feuille A #5E (MV and DK)



Feuille A #5E (MV only)



Feuille A #5E (DK only)



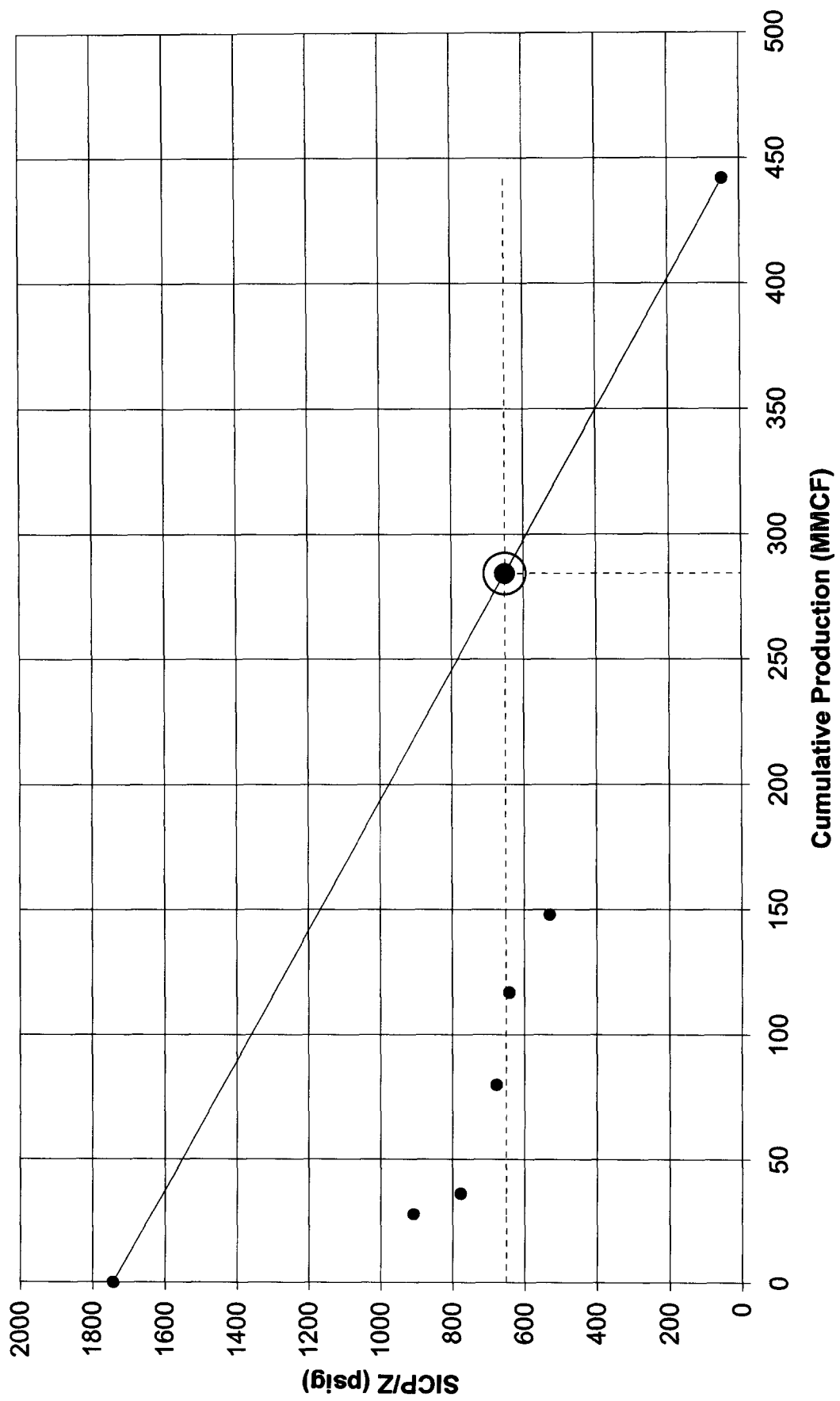
Feuille A #5E - SICP/Z Data

Zone: Dakota							
<u>Date</u>	<u>SICP (psig)</u>	<u>Chromatograph Used</u>	<u>Z-Factor</u>	<u>SICP/Z (psig)</u>	<u>Cum Qg (MMCF)</u>	<u>Slope</u>	<u>Y Intercept</u>
7/18/1985	1540	9/12/1990	0.8834	1743	0	N/A	1743
10/11/1985	840	9/12/1990	0.9251	908	27.711	-30.14163	1743
6/3/1986	726	9/12/1990	0.9342	777	36.084	-26.77445	1743
6/2/1987	637	9/12/1990	0.9411	677	79.692	-13.38148	1743
10/14/1988	605	9/12/1990	0.9438	641	116.758	-9.440373	1743
4/9/1990	504	9/12/1990	0.9523	529	147.852	-8.211047	1743
???	47	N/A	1	47	441.741	-3.839953	1743
						↓	↓
12/31/2000	???	9/12/1990	???	651	284.409	-3.839953	1743

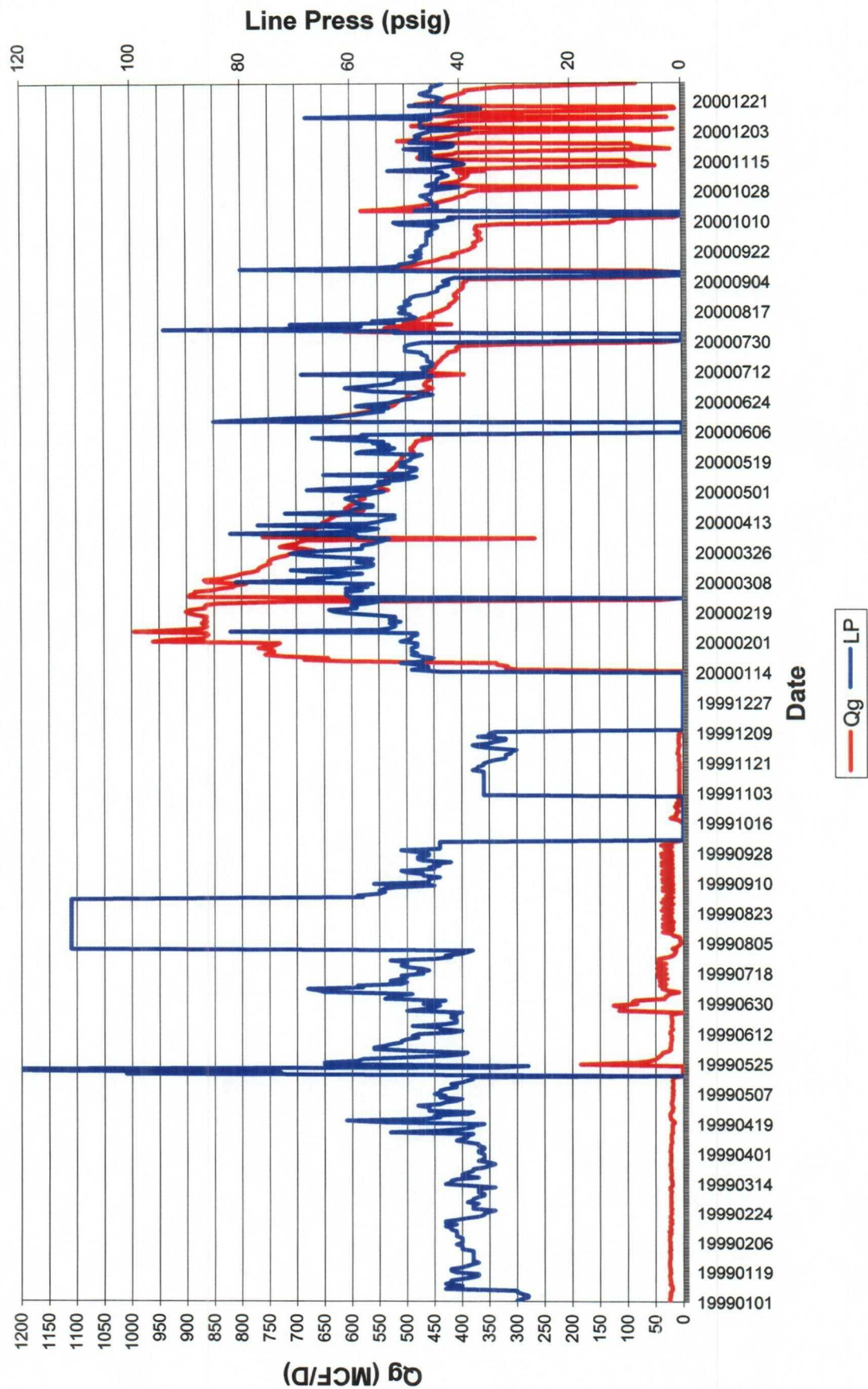
Z-Factor = 0.943
SICP (psig) = 614

NOTE: EXTENDING A STRAIGHT LINE FROM THE FIRST PRESSURE POINT (7/18/85) THROUGH THE LATEST ACTUAL PRESSURE POINT (4/9/90) RESULTS IN AN ESTIMATE OF THE CURRENT SICP AS APPROXIMATELY -500 PSIG. BECAUSE THE SICP/Z VS. CUMULATIVE PRODUCTION PROFILE FOR A TIGHT ZONE SUCH AS THE DAKOTA WILL RESEMBLE A HYPERBOLIC DECLINE, IT IS KNOWN THAT NEAR-WELLBORE PRESSURE, AND HENCE SICP, WILL BE MAINTAINED LONGER THAN THIS PREDICTS. TO ARRIVE AT OUR ESTIMATE OF THE CURRENT SICP, RATE-TIME ANALYSIS WAS USED TO OBTAIN AN ULTIMATE RECOVERY FOR THE ZONE (441.741 MMCF) AT A SICP OF 47 PSIG (AVERAGE LINE PRESSURE FOR 2000). THEN, A STRAIGHT LINE FROM THE INITIAL PRESSURE POINT TO THIS ULTIMATE RECOVERY AT 47 PSIG ALLOWED THE CALCULATION OF THE SICP FOR A CUMULATIVE RECOVERY OF 284.409 MMCF (12/31/00).

Feuille A #5E (DK)



Feuille A #5E



DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY(See other in-
structions on
reverse side)

WELL COMPLETION OR RECOMPLETION REPORT AND LOG *

1a. TYPE OF WELL: OIL WELL ☐ GAS WELL ☒ DRY ☐ Other _____

b. TYPE OF COMPLETION:

NEW WELL ☒ WORK OVER ☐ DEEP-EN ☐ PLUG BACK ☐ DIFF. DESVR. ☐ Other _____

2. NAME OF OPERATOR

El Paso Natural Gas Company

3. ADDRESS OF OPERATOR

PO Box 990, Farmington, NM 87401

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)*

At surface 790'S, 1155'E

At top prod. interval reported below

At total depth

14. PERMIT NO.

DATE ISSUED

5. LEASE DESIGNATION AND SERIAL NO.

SF 078716-A

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

Hubbell

9. WELL NO.

9

10. FIELD AND POOL, OR WILDCAT

Undes, Chacra

11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA

Sec. 18, T-29-N, R-10-W
NMPM

12. COUNTY OR PARISH

San Juan

13. STATE

New Mexico

15. DATE SPUDDED

3-25-72

16. DATE T.D. REACHED

3-28-72

17. DATE COMPL. (Ready to prod.)

5-4-72

18. ELEVATIONS (DF, REB, RT, GR, ETC.)*

5607'GL

19. ELEV. CASINGHEAD

20. TOTAL DEPTH, MD & TVD

3081'

21. PLUG, BACK T.D., MD & TVD

3071'

22. IF MULTIPLE COMPL., HOW MANY*

23. INTERVALS DRILLED BY

ROTARY TOOLS

CABLE TOOLS

→

0-3081'

24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)*

2998-3010'(Chacra)

25. WAS DIRECTIONAL SURVEY MADE

no

26. TYPE ELECTRIC AND OTHER LOGS RUN

I-ES, FDC-, GR, Temp. Survey

27. WAS WELL COBED

no

28. CASING RECORD (Report all strings set in well)

CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
8 5/8"	24#	139'	12 1/4"	107 cu. ft.	
2 7/8"	6.4#	3081'	6 3/4"	732 cu. ft.	

29. LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
					tubingless		

31. PERFORATION RECORD (Interval, size and number)

2998-3010' with 24 shots per zone.

32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
2998-3010'	20,000#sand; 19,800 gal. water

33.* PRODUCTION

DATE FIRST PRODUCTION		PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump)				WELL STATUS (Producing or shut-in)	
		flowing				shut in	
DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD	OIL—BBL.	GAS—MCF.	WATER—BBL.	GAS-OIL RATIO
5-4-72	3 hrs.	3/4'	→				
FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE	OIL—BBL.	GAS—MCF.	WATER—BBL.	OIL GRAVITY-API (CORR.)	
tubingless	SI 1106	→		1329 AOF			

34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.)

TEST WITNESSED BY

B.J. Broughton

35. LIST OF ATTACHMENTS

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records

SIGNED

TITLE

Petroleum Engineer

DATE

May 10, 1972

*(See Instructions and Spaces for Additional Data on Reverse Side)

INTEREST OWNERS

FEUILLE A 5E Well

✓ ALBERT S JOHNSON
✓ ANNA CELIA HOWELL HILTON
✓ BEN HOWELL LANGFORD
✓ BUREAU OF LAND MANAGEMENT
✓ CAROL A ZAHARA
✓ CHASE BANK OF TEXAS NA TRUSTEE HOWELL GRANDCHILDRENS TRUST
✓ CHASE BANK OF TEXAS NA TRUSTEE BEN R HOWELL TRUST
✓ CYNTHIA H SCOFIELD
✓ DRY CREEK RESERVE COMPANY
✓ E TAYLOR ARMSTRONG TR
✓ ELIZABETH H LUND TRUSTEE ELIZABETH H LUND ROYALTY TRUST
✓ EMILIE M HARDIE ROYALTY TRUST
✓ EMILY D GRAMBLING
✓ EVERETT R JONES JR
✓ FREDERICK R MAYER & ELIZABETH
✓ FREDERICK R MAYER AIF FOR
✓ GENIE H BENTLEY
✓ HANCOCK-DORIE TRUST
✓ J L HIGGINBOTHAM JR TR
✓ J L HIGGINBOTHAM JR TRUSTEE LINDA CAROLYN JONES
✓ J LANHAM HIGGINBOTHAM III
✓ J LUDWIG MOSLE
✓ JANE HARDIE TRUSTEE WILLIAM B HARDIE SR ROYALTY TR
✓ JOHN A GRAMBLING
✓ JOSEPH C JASTRZEMBSKI
✓ LINDA L RAYES

FEUILLE A 5E Well

- ✓✓ LOUIS DREYFUS NATURAL GAS CORP
- ✓✓ MABELLE BRAMHALL TRUSTEE MABELLE H SOWERS ROYALTY TRUST
- ✓✓ MARATHON OIL COMPANY
- ✓✓ MARTHA H LYNCH
- ✓✓ NORTH AMERICAN ENERGY
- ✓✓ PATRICIA G HARVEY
- ✓✓ QUESTAR EXPLORATION & PROD CO
- ✓✓ R G STOREY & SONS
- ✓✓ R H FEUILLE
- ✓✓ RICHARD PARKER LANGFORD
- ✓✓ SCHULTZ HENRIETTA TR
- ✓✓ SCHULTZ MANAGEMENT L
- ✓✓ THORNTON HARDIE III TRUSTEE MARY ELIZABETH HARDIE ROY TRST
- ✓✓ TOURMALINE EXPLORATION CO
- ✓✓ UNCLAIMED PROPERTY DIVISION