DATE IN 2/28/00	SUSPENSE 3/20/00	ENGINEER DC	LOGGED KV	TYPE DHC

ABOVE THIS LINE FOR DIVISION USE ONLY

NEW MEXICO OIL CONSERVATION DIVISION

- Engineering Bureau -

26816

ADMINISTRATIVE APPLICATION COVERSHEET

THIS COVERSHEET IS MANDATORY FOR ALL ADMINISTRATIVE APPLICATIONS FOR EXCEPTIONS TO DIVISION RULES AND REGULATIONS

Application Acronyms:

[NSP-Non-Standard Proration Unit] [NSL-Non-Standard Location]
[DD-Directional Drilling] [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 - Directional Drilling

NSL NSP DD SD

Check One Only for [B] and [C]

[B] Commingling - Storage - Measurement

X DHC CTB PLC PC OLS OLM

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

WFX PMX SWD IPI EOR PPR

RECEIVED
FEB 28 2000
OIL CONSERVATION DIVISION

[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] X 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** - Statement of Understanding

I hereby certify that I, or personnel under my supervision, have read and complied with all 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, information or notification is cause to have the application package returned with no action taken.

Note: Statement must be completed by an individual with supervisory capacity.

Peggy Cole	Peggy Cole	Regulatory/Compliance Administrator	
Print or Type Name	Signature	Title	Date

DISTRICT I
1625 N. French Dr., Hobbs, NM 88240
DISTRICT II
811 South First St., Artesia, NM 88210
DISTRICT III
1000 Rio Brazos Rd, Aztec, NM 87410
DISTRICT IV
2040 S. Pacheco, Santa Fe, NM 87505

State of New Mexico
Energy, Minerals and Natural Resources Department

OIL CONSERVATION DIVISION

2040 S. Pacheco
Santa Fe, New Mexico 87505-6429

Form C-107-A
Revised August 1999

APPROVAL PROCESS:
__ Administrative __Hearing

EXISTING WELLBORE
_X_ YES ___ NO

APPLICATION FOR DOWNHOLE COMMINGLING

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

JICARILLA 150	1E	F 01-26N-05W	RIO ARRIBA
Lease	Well No.	Unit Ltr. - Sec - Twp - Rge	County

Spacing Unit Lease Types: (check 1 or more)

OGRID NO._____14538_____ Property Code_____16344_____ API NO._30-039-23519_____ Federal _X_ , State ___, (and/or) Fee ___

The following facts are submitted in support of downhole commingling:	Upper Zone	Intermediate Zone	Lower Zone
1. Pool Name and Pool Code	BLANCO MESAVERDE – 72319	BS MESA GALLUP – 72920	BASIN DAKOTA - 71599
2. Top and Bottom of Pay Section (Perforations)	WILL BE SUPPLIED UPON COMPLETION	WILL BE SUPPLIED UPON COMPLETION	WILL BE SUPPLIED UPON COMPLETION
3. Type of production (Oil or Gas)	GAS	GAS	GAS
4. Method of Production (Flowing or Artificial Lift)	FLOWING	FLOWING	FLOWING
5. Bottomhole Pressure Oil Zones - Artificial Lift: Estimated Current Gas & Oil - Flowing: Measured Current All Gas Zones: Estimated Or Measured Original	a. (Current) 544 psi (see attachment)	a. (Current) 772 psi (see attachment)	a. (Current) 856 psi (see attachment)
	b. (Original) *1151 psi (see attachment)*	b. (Original) *1630 psi (see attachment)*	b. (Original) *1324 psi (see attachment)*
6. Oil Gravity (°API) or Gas BTU Content	BTU 1192	BTU 1253	BTU 1188
7. Producing or Shut-In?	SHUT-IN	SHUT-IN	SHUT-IN
Production Marginal? (yes or no)	NO	YES	YES
* If Shut-In, give 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: N/A Rates:	Date: N/A Rates:
* If Producing, give date andoil/gas/ water rates of recent test (within 60 days)	Date: N/A Rates:	Date: N/A Rates:	Date: N/A Rates:
8. Fixed Percentage Allocation Formula -% for each zone (total of %'s to equal 100%)	Oil: % Gas: % WILL BE SUPPLIED UPON COMPLETION	Oil: % Gas: % WILL BE SUPPLIED UPON COMPLETION	Oil: % Gas: % WILL BE SUPPLIED UPON COMPLETION

9. If allocation formula is based upon something other than current or past production, or is based upon some other method, submit attachments with supporting data and/or explaining method and providing rate projections or other required data.

10. Are all working, overriding, and royalty interests identical in all commingled zones? _X Yes ___ No

11. Will cross-flow occur? _X_ Yes ___ No If yes, are fluids compatible, will the formations not be damaged, will any cross-flowed production be recovered, and will the allocation formula be reliable. _X_ Yes ___ No (If No, attach explanation)

12. Are all produced fluids from all commingled zones compatible with each other? _X_ Yes ___ No

13. Will the value of production be decreased by commingling? ___ Yes _X No (If Yes, attach explanation)

14. If this well is on, or communitized with, state or federal lands, either the Commissioner of Public Lands or the United States Bureau of Land Management has been notified in writing of this application._X_Yes ___ No

15. NMOCD Reference Cases for Rule 303(D) Exceptions: ORDER NO(S). _____

16. 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.

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: 02/23/00

TYPE OR PRINT NAME SEAN E. CORRIGAN TELEPHONE NO. 505-326-9700

DISTRICT I
1625 N. French Dr., Hobbs, NM 88240
DISTRICT II
811 South First St., Artesia, NM 88210
DISTRICT III
1000 Rio Brazos Rd, Aztec, NM 87410
DISTRICT IV
2040 S. Pacheco, Santa Fe, NM 87505

State of New Mexico
Energy, Minerals and Natural Resources Department

OIL CONSERVATION DIVISION

2040 S. Pacheco
Santa Fe, New Mexico 87505-6429

Form C-107-A
Revised August 1999

APPROVAL PROCESS:
__ Administrative __Hearing

EXISTING WELLBORE
_X_ YES ___ NO

APPLICATION FOR DOWNHOLE COMMINGLING

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

JICARILLA 150 — Lease
1E — Well No.
F 01-26N-05W — Unit Ltr. - Sec - Twp - Rge
RIO ARRIBA — County

Spacing Unit Lease Types: (check 1 or more)

OGRID NO._____14538_____ Property Code_____16344_____ API NO._30-039-23519_____ Federal __X__ , State ___, (and/or) Fee ___

The following facts are submitted in support of downhole commingling:	Upper Zone	Intermediate Zone	Lower Zone
1. Pool Name and Pool Code	WILDCAT CHACRA		
2. Top and Bottom of Pay Section (Perforations)	WILL BE SUPPLIED UPON COMPLETION		
3. Type of production (Oil or Gas)	GAS		
4. Method of Production (Flowing or Artificial Lift)	FLOWING		
5. Bottomhole Pressure Oil Zones - Artificial Lift: Estimated Current Gas & Oil - Flowing: Measured Current All Gas Zones: Estimated Or Measured Original	a. (Current) 337 psi (see attachment)		
	b. (Oriiginal) 873 psi (see attachment)		
6. Oil Gravity (EAPI) or Gas BTU Content	BTU 1180		
7. Producing or Shut-In?	SHUT-IN		
Production Marginal? (yes or no)	NO		
* If Shut-In, give 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 * If Producing, give date andoil/gas/ water rates of recent test (within 60 days)	Date: N/A Rates: Date: N/A Rates:	Date: N/A Rates: Date: N/A Rates:	Date: N/A Rates: Date: N/A Rates:
8. Fixed Percentage Allocation Formula -% for each zone (total of %'s to equal 100%)	Oil: % Gas: % WILL BE SUPPLIED UPON COMPLETION	Oil: % Gas: % WILL BE SUPPLIED UPON COMPLETION	Oil: % Gas: % WILL BE SUPPLIED UPON COMPLETION

9. If allocation formula is based upon something other than current or past production, or is based upon some other method, submit attachments with supporting data and/or explaining method and providing rate projections or other required data.

10. Are all working, overriding, and royalty interests identical in all commingled zones? __X Yes ___ No

11. Will cross-flow occur? __X_ Yes ___ No If yes, are fluids compatible, will the formations not be damaged, will any cross-flowed production be recovered, and will the allocation formula be reliable. _X_ Yes ___ No (If No, attach explanation)

12. Are all produced fluids from all commingled zones compatible with each other? _X_ Yes ___ No

13. Will the value of production be decreased by commingling? ___ Yes __X No (If Yes, attach explanation)

14. If this well is on, or communitized with, state or federal lands, either the Commissioner of Public Lands or the United States Bureau of Land Management has been notified in writing of this application. __X_Yes ___ No

15. NMOCD Reference Cases for Rule 303(D) Exceptions: ORDER NO(S). _____

16. 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.

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: 02/23/00

TYPE OR PRINT NAME SEAN E. CORRIGAN 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

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

[1] API Number	[2] Pool Code	[3] Pool Name
30-039-23519	71599 72319/72920/	Wildcat Chacra Basin Dakota Blanco Mesaverde/B. S Mesa Gallup/

[4] Property Code	[5] Property Name	[6] Well Number
16344	Jicarilla 150	1E

[7] OGRID No.	[8] Operator Name	[9] Elevation
14538	Burlington Resources Oil & Gas Company	7285' GR

[10] Surface Location

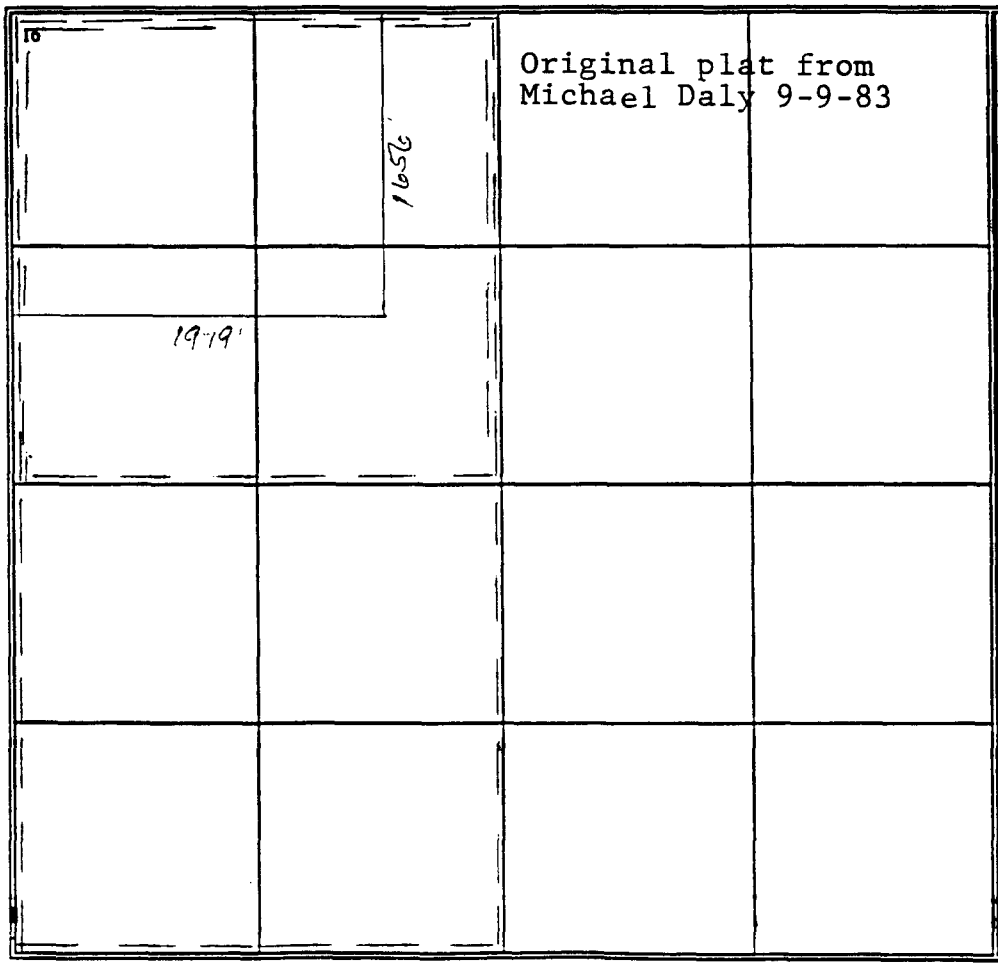
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
F	1	26N	5W		1656	North	1979	West	RA

[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	[13] Joint or Infill	[14] Consolidation Code	[15] Order No.
MV-W/319.88 Gal - 160	Cha	-159.88 DK-W/319.88	

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



[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 Administrator
Title

2-1-00
Date

[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.

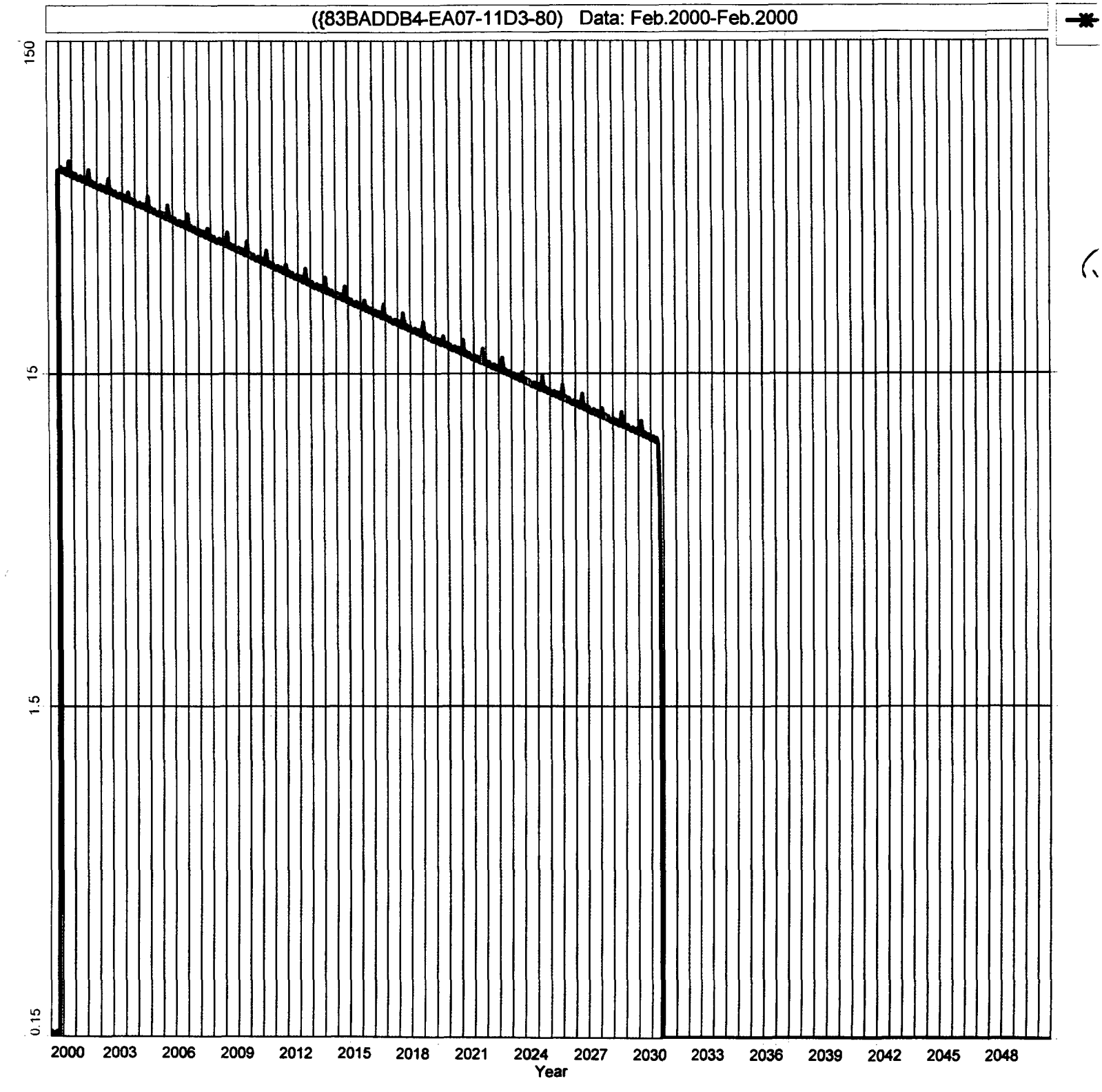
Date of Survey

Signature and Seal of Professional Surveyer:

Certificate Number

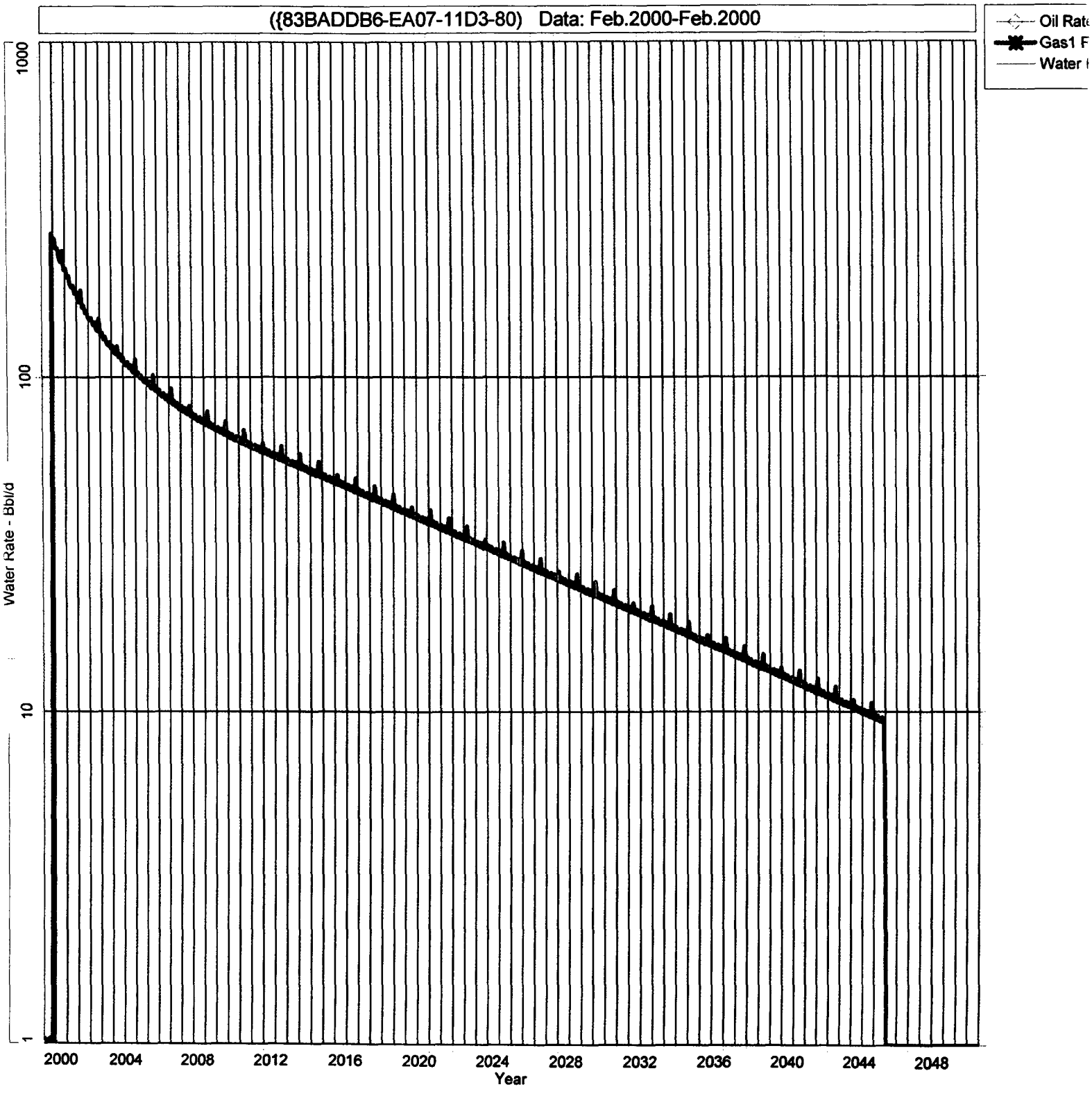
Jicarilla 150 #1E

Expected Chacra Production



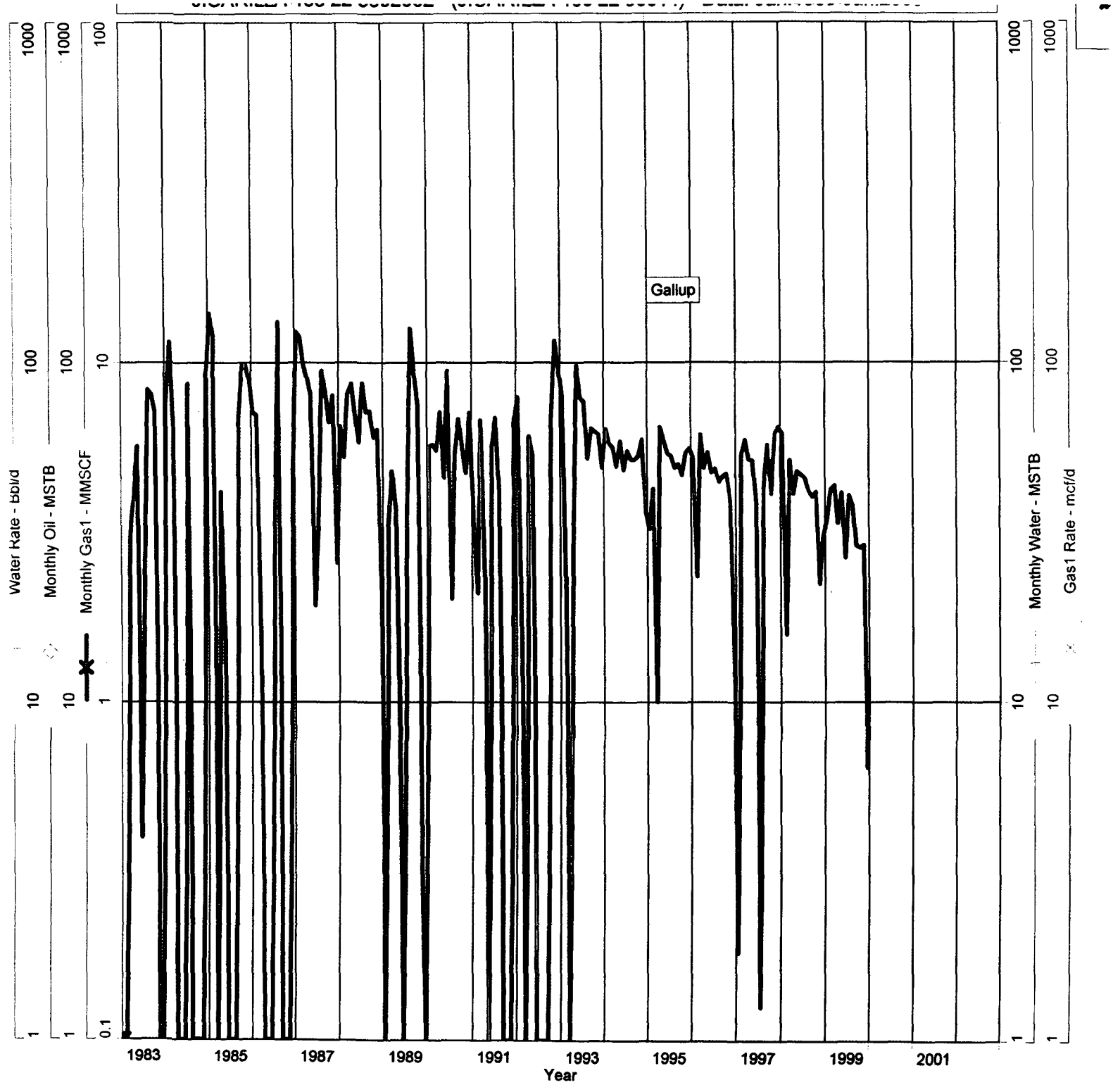
Jicarilla 150 #1E

Expected Mesaverde Production



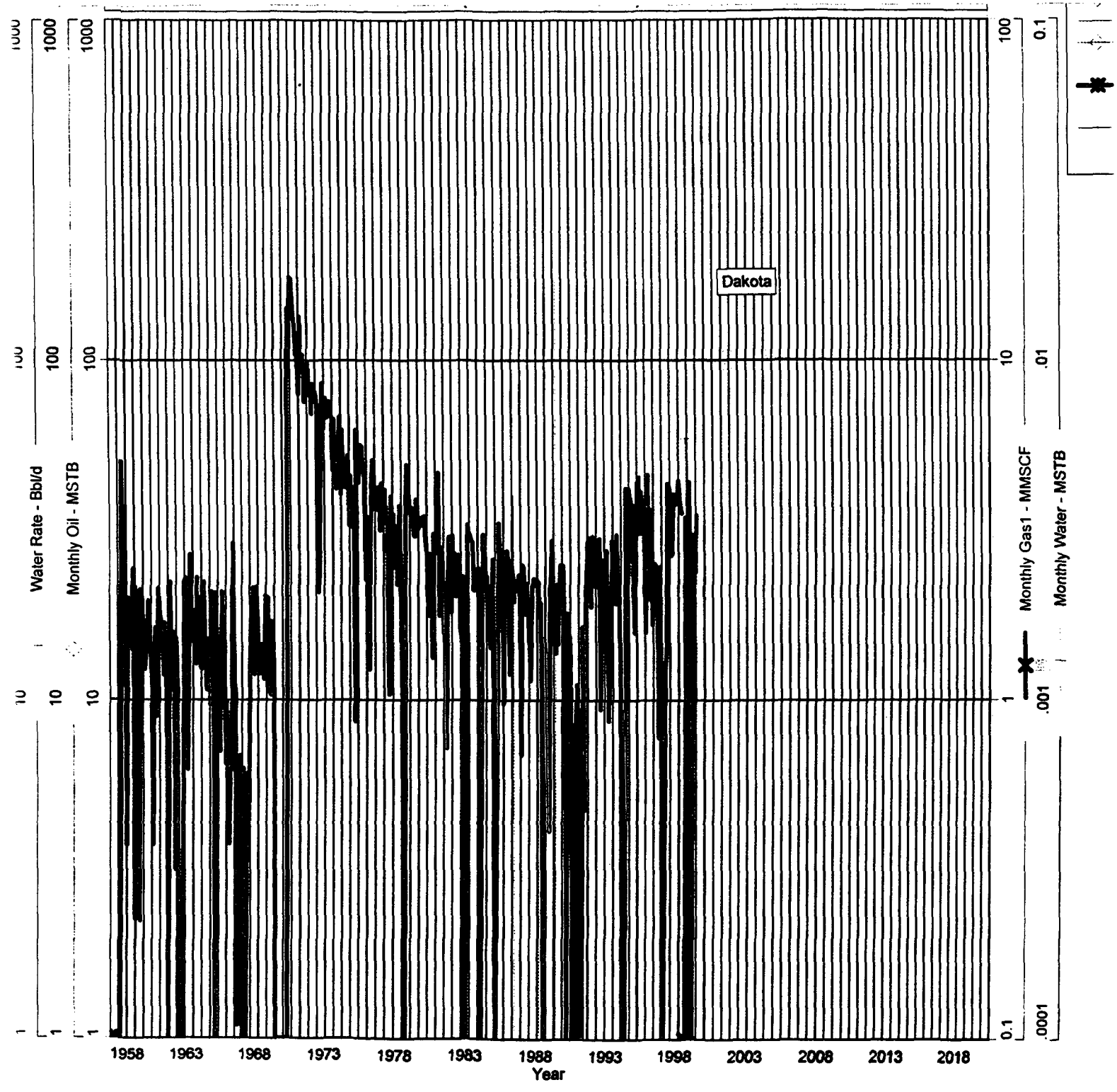
Jicarilla 150 #1E

Actual Gallup Production



Jicarilla 150 #1E

Actual Dakota Production



Jicarilla 150 #1E

Bottom Hole Pressures

Flowing and Static BHP

Cullender and Smith Method

Version 1.0 3/13/94

Chacra

CH-Current

GAS GRAVITY	0.671
COND. OR MISC. (C/M)	C
%N2	0.51
%CO2	0.26
%H2S	0
DIAMETER (IN)	1.25
DEPTH (FT)	3276
SURFACE TEMPERATURE (DEG F)	60
BOTTOMHOLE TEMPERATURE (DEG F)	137
FLOWRATE (MCFPD)	0
SURFACE PRESSURE (PSIA)	312
BOTTOMHOLE PRESSURE (PSIA)	337.2

CH-Original

GAS GRAVITY	0.671
COND. OR MISC. (C/M)	C
%N2	0.51
%CO2	0.26
%H2S	0
DIAMETER (IN)	1.25
DEPTH (FT)	3276
SURFACE TEMPERATURE (DEG F)	60
BOTTOMHOLE TEMPERATURE (DEG F)	137
FLOWRATE (MCFPD)	0
SURFACE PRESSURE (PSIA)	802
BOTTOMHOLE PRESSURE (PSIA)	872.6

Mesaverde

MV-Current

GAS GRAVITY	0.688
COND. OR MISC. (C/M)	C
%N2	0.47
%CO2	0.9
%H2S	0
DIAMETER (IN)	1.5
DEPTH (FT)	5632
SURFACE TEMPERATURE (DEG F)	60
BOTTOMHOLE TEMPERATURE (DEG F)	137
FLOWRATE (MCFPD)	0
SURFACE PRESSURE (PSIA)	472
BOTTOMHOLE PRESSURE (PSIA)	543.8

MV-Original

GAS GRAVITY	0.688
COND. OR MISC. (C/M)	C
%N2	0.47
%CO2	0.9
%H2S	0
DIAMETER (IN)	1.5
DEPTH (FT)	5632
SURFACE TEMPERATURE (DEG F)	60
BOTTOMHOLE TEMPERATURE (DEG F)	137
FLOWRATE (MCFPD)	0
SURFACE PRESSURE (PSIA)	986
BOTTOMHOLE PRESSURE (PSIA)	1151.0

Jicarilla 150 #1E

Bottom Hole Pressures

Flowing and Static BHP

Cullender and Smith Method

Version 1.0 3/13/94

Gallup

GP-Current

GAS GRAVITY	0.723
COND. OR MISC. (C/M)	C
%N2	0.36
%CO2	0.73
%H2S	0
DIAMETER (IN)	2.375
DEPTH (FT)	7715
SURFACE TEMPERATURE (DEG F)	60
BOTTOMHOLE TEMPERATURE (DEG F)	137
FLOWRATE (MCFPD)	0
SURFACE PRESSURE (PSIA)	633
BOTTOMHOLE PRESSURE (PSIA)	783.2

GP-Original

GAS GRAVITY	0.723
COND. OR MISC. (C/M)	C
%N2	0.36
%CO2	0.73
%H2S	0
DIAMETER (IN)	2.375
DEPTH (FT)	7715
SURFACE TEMPERATURE (DEG F)	60
BOTTOMHOLE TEMPERATURE (DEG F)	137
FLOWRATE (MCFPD)	0
SURFACE PRESSURE (PSIA)	1309
BOTTOMHOLE PRESSURE (PSIA)	1667.2

Dakota

DK-Current

GAS GRAVITY	0.687
COND. OR MISC. (C/M)	C
%N2	0.61
%CO2	0.89
%H2S	0
DIAMETER (IN)	2.375
DEPTH (FT)	8332
SURFACE TEMPERATURE (DEG F)	60
BOTTOMHOLE TEMPERATURE (DEG F)	198
FLOWRATE (MCFPD)	0
SURFACE PRESSURE (PSIA)	698
BOTTOMHOLE PRESSURE (PSIA)	855.5

DK-Original

GAS GRAVITY	0.687
COND. OR MISC. (C/M)	C
%N2	0.61
%CO2	0.89
%H2S	0
DIAMETER (IN)	2.375
DEPTH (FT)	8332
SURFACE TEMPERATURE (DEG F)	60
BOTTOMHOLE TEMPERATURE (DEG F)	198
FLOWRATE (MCFPD)	0
SURFACE PRESSURE (PSIA)	1069
BOTTOMHOLE PRESSURE (PSIA)	1324.1

Jicarilla 150 #1E

Chacra Offset

Well Name	Date	Pressure
VAUGHN 11	4/29/70	802
VAUGHN 11	4/14/71	469
VAUGHN 11	8/1/72	428
VAUGHN 11	8/28/73	406
VAUGHN 11	4/28/75	260
VAUGHN 11	3/1/93	312

Jicarilla 150 #1E

Mesaverde Offset

	Date	Pressure
JICARILLA 150 1	1954- 09- 2	986
JICARILLA 150 1	1970- 10- 23	946
JICARILLA 150 1	1971- 09- 26	709
JICARILLA 150 1	1972- 04- 17	554
JICARILLA 150 1	1973- 05- 17	591
JICARILLA 150 1	1974- 06- 2	496
JICARILLA 150 1	1976- 05- 3	444
JICARILLA 150 1	1978- 05- 18	458
JICARILLA 150 1	1980- 07- 25	505
JICARILLA 150 1	1982- 04- 9	405
JICARILLA 150 1	1984- 05- 2	564
JICARILLA 150 1	1986- 04- 23	567
JICARILLA 150 1	1989- 11- 29	603
JICARILLA 150 1	1991- 05- 1	671
JICARILLA 150 1	1991- 05- 15	659
JICARILLA 150 1	1993- 06- 1	472

Jicarilla 150 #1E

Gallup Offset

	Date	Pressure
Jicarilla 150 12	1980- 03- 27	1,309
Jicarilla 150 12	1981- 06- 1	664
Jicarilla 150 12	1982- 04- 9	607
Jicarilla 150 12	1983- 06- 9	633

Jicarilla 150 #1E

Existing Dakota

	Date	Pressure
Jicarilla 150 1E	1985- 10- 15	1069
Jicarilla 150 1E	1986- 04- 23	962
Jicarilla 150 1E	1987- 10- 21	817
Jicarilla 150 1E	1988- 01- 13	817
Jicarilla 150 1E	1990- 12- 5	698

Jicarilla 150 #1E

Chacra / Mesaverde / Gallup / Dakota

26N-5W-01F