

DATE 6/18/02	SUSPENSE NA	ENGINEER WJ	LOGGED IN KW	Amend TYPE DHC No. 1940	APP NO. 217129514
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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 CHECKLIST

THIS CHECKLIST 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]

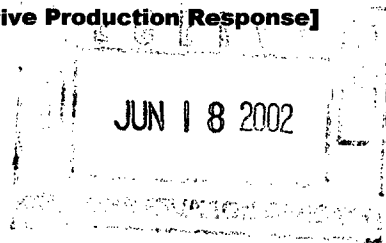
[A] Location - Spacing Unit - Simultaneous Dedication
☐ NSL ☐ NSP ☐ SD

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

[D] Other: Specify _____



[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] SUBMIT ACCURATE AND COMPLETE INFORMATION REQUIRED TO PROCESS THE TYPE OF APPLICATION INDICATED ABOVE.

[4] CERTIFICATION: I hereby certify that the information submitted with this application for administrative approval is **accurate** and **complete** to the best of my knowledge. I also understand that **no action** will be taken on this application until the required information and notifications are submitted to the Division.

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

Yolanda Perez _____ 6/17/02
 Print or Type Name Signature Title Date
 Sr. Regulatory Analyst
 yolanda.perez@conoco.com
 e-mail Address



Yolanda Perez
Sr. Regulatory Analyst
San Juan Asset Team
Exploration-Production USSA

Conoco Inc.
600 N. Dairy Ashford, DU 3084
Houston, TX 77079-6651
(281) 293-1613 fax (281) 293-5090

June 17, 2002

New Mexico Oil Conservation Division
1220 So. St. Francis Drive
Santa Fe, NM 87505

Attention: David Catanach

RE: Amend DHC Order #1940
Jicarilla "B" No. 2A
API No. 30-039-25845
Unit I, Sec. 25, T26N, R4W
Rio Arriba County, New Mexico

Dear Mr. Catanach,

Conoco Inc. is submitting the attached form C107A, along with supporting documentation, to amend the above mentioned DHC Order. A copy of the Administrative Order DHC-1940 is also enclosed. Conoco now wishes to DHC the Blanco Mesaverde (72319) and Tapacito Pictured Cliffs (85920) pools. This is a pre-approved pool combination. Interest owners are identical in both pools.

If you have any questions and/or comments, please call me at (281) 293-1613 or email yolanda.perez@conoco.com. Please advise me on which of the supporting documents that accompany the C107A application are required or necessary.

Sincerely,

Yolanda Perez
Sr. Regulatory Analyst
Lobo/San Juan Asset

Enclosures

District I
1625 N. French Drive, Hobbs, NM 68240
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
☒ Established Pre-Approved Pools
EXISTING WELLBORE
☒ Yes ☐ No

APPLICATION FOR DOWNHOLE COMMINGLING

Conoco Inc. P. O. Box 2197, DU 3084 HoustonTX 77252-2197
Operator Address
Jicarilla B 2A I, Sec.25 T27N R4W Rio Arriba
Lease Well No. Unit Letter-Section-Township-Range County
OGRID No. 005073 Property Code API No. 30-039-25845 Lease Type ☒ Federal ☐ State ☐ Fee

DATA ELEMENT	UPPER ZONE	INTERMEDIATE ZONE	LOWER ZONE
Pool Name	Tapacito Pictured Cliffs		Blanco Mesaverde
Pool Code	85920		72319
Top and Bottom of Pay Section (Perforated or Open-Hole Interval)	3786 - 3864 proposed		5940 - 6071
Method of Production (Flowing of Artificial Lift)	expected to flow		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)	400 psig (estimated)	$\frac{200}{3786} = .5285 \text{ psi/ft}$	$\frac{1600}{2000} = .8 \text{ psi/ft}$ current 2000 psig
Oil Gravity or Gas BTU (Degree API or Gas BTU)	1270 BTU/SCF		1260 BTU/SCF
Producing, Shut-in or New Zone	new zone		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: Rates: See attached	Date: Rates:	Date: 06/12/2002 Rates: 201 MCFPD, 1 BWPD, 1/4 BOPD
Fixed Allocation Percentage (Note: If allocation is based upon something other than current or part production, supporting data or explanation will be required.)	Oil Gas 0 % Subtraction	Oil Gas % %	Oil Gas 100 % Subtraction

ADDITIONAL DATA

Are all working, royalty and overriding royalty interests identical in all commingling zones? Yes ☒ No ☐
If not, have all working royalty and overriding royalty interest owners been notified by certified mail? Yes ☐ No ☒
Are all produced fluids from all commingling zones compatible with each other? Yes ☒ No ☐
Will commingling decrease the value of production? Yes ☐ No ☒
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 ☒ No ☐
NMOCD Reference Case No. applicable to this well: R-11363

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 Yolanda Perez TITLE Sr. Regulatory Analyst DATE 06/17/2002
TYPE OR PRINT NAME Yolanda Perez TELEPHONE NO. (281)293-1613

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

District II
811 South First, Artesia, NM 88210

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

District IV
2040 South Pacheco, Santa Fe, NM 87505

State of New Mexico
Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION
2040 South Pacheco
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 30-039-25845		² Pool Code 85920		³ Pool Name TAPACITO PICTURED CLIFFS	
⁴ Property Code CONT 1		⁵ Property Name JICARILLA B			⁶ Well Number 2A
⁷ OGRID No. 005073		⁸ Operator Name CONOCO, INC.			⁹ Elevation 7186 GL

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
I	25	26N	4W		1540'	SOUTH	1185'	EAST	RIO ARRIBA

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 160	¹³ Joint or Infill I	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					¹⁷ OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief. <i>Deborah Marberry</i> Signature DEBORAH MARBERRY Printed Name REGULATORY ANALYST Title 04/17/2002 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 Surveyor: Certificate Number

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

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2040 South Pacheco
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Form C-102
Revised August 15, 2000

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☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-039-25845		² Pool Code 71599		³ Pool Name BLANCO MESAVERDE	
⁴ Property Code CONT 1		⁵ Property Name JICARILLA B			⁶ Well Number 2A
⁷ OGRID No. 005073		⁸ Operator Name CONOCO, INC.			⁹ Elevation 7186 GL

¹⁰ Surface Location

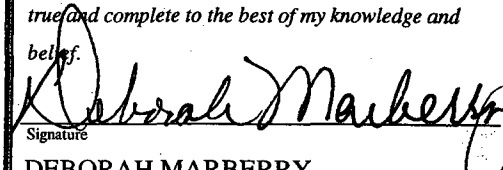
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
I	25	26N	4W		1540'	SOUTH	1185'	EAST	RIO ARRIBA

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 320	¹³ Joint or Infill I	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

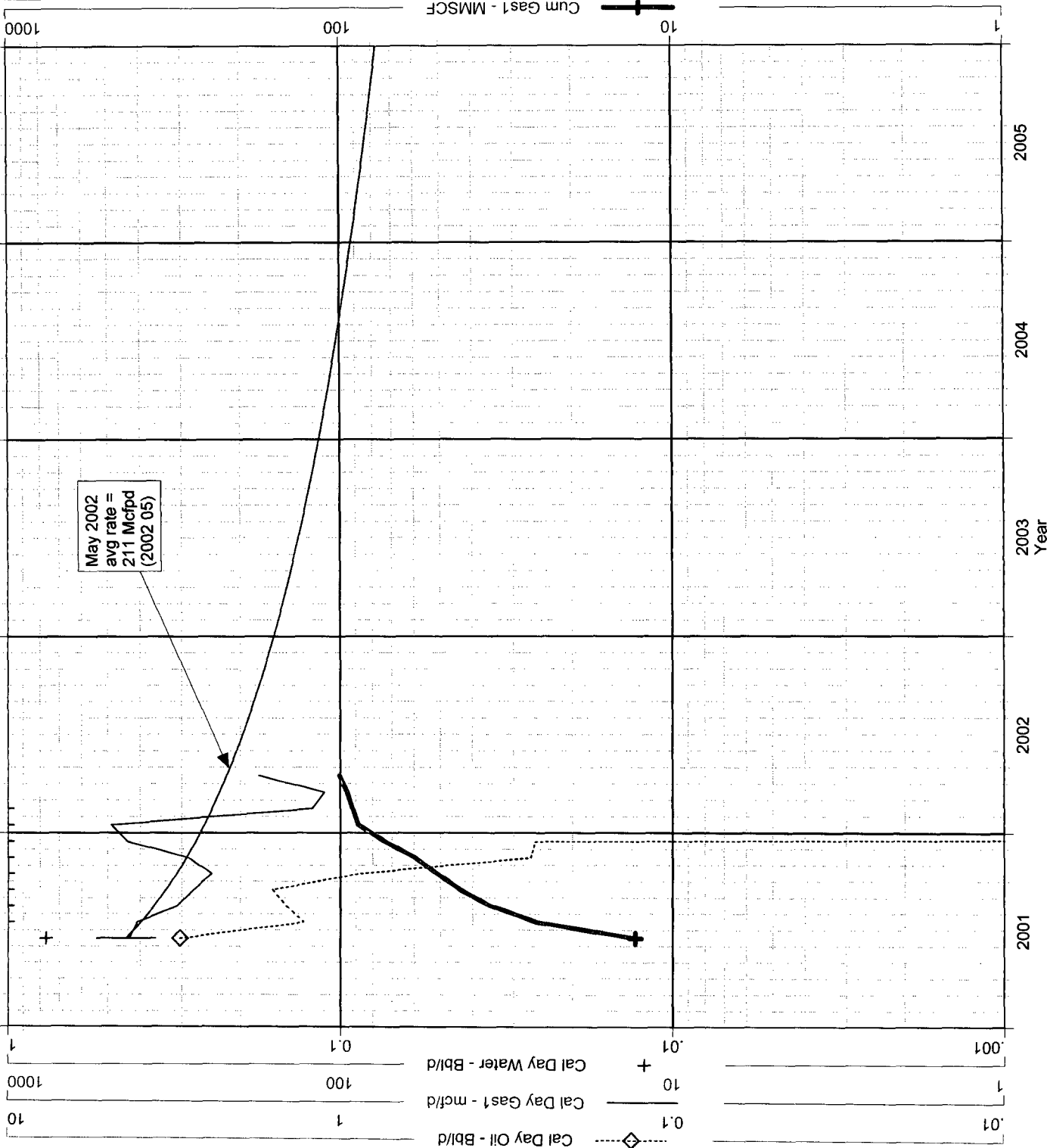
16					17 OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.  Signature DEBORAH MARBERRY Printed Name REGULATORY ANALYST Title 04/17/2002 Date 18 SURVEYOR CERTIFICATION I hereby certify that the well location shown 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 Surveyor: Certificate Number

JICARILLA B - 2A_MV (1994306) Data: Jun.2001-Apr.2002

Operator: CONOCO INC
 Field: BLANCO (MESAVERDE) MV
 Zone: MESAVERDE
 Type: Gas
 Group: Well::South Area Wells

Cal Day Gas FC 1 (Rate-Time)
 qi: 465.037 mcf/d, Jun, 2001
 qf: 65.5806 mcf/d, Jul, 2036
 di(Hyp): 55.8991 CTD: 100.419 MMSCF
 RR: 493.581 MMSCF Tot: 594 MMSCF

Production Cums
 Oil: 0.267 MSTB
 Gas: 100.419 MMSCF
 Water: 0.266 MSTB
 Cond: 0 MSTB



Cal Day Oil - Bbl/d
 Cum: 0.267 MSTB

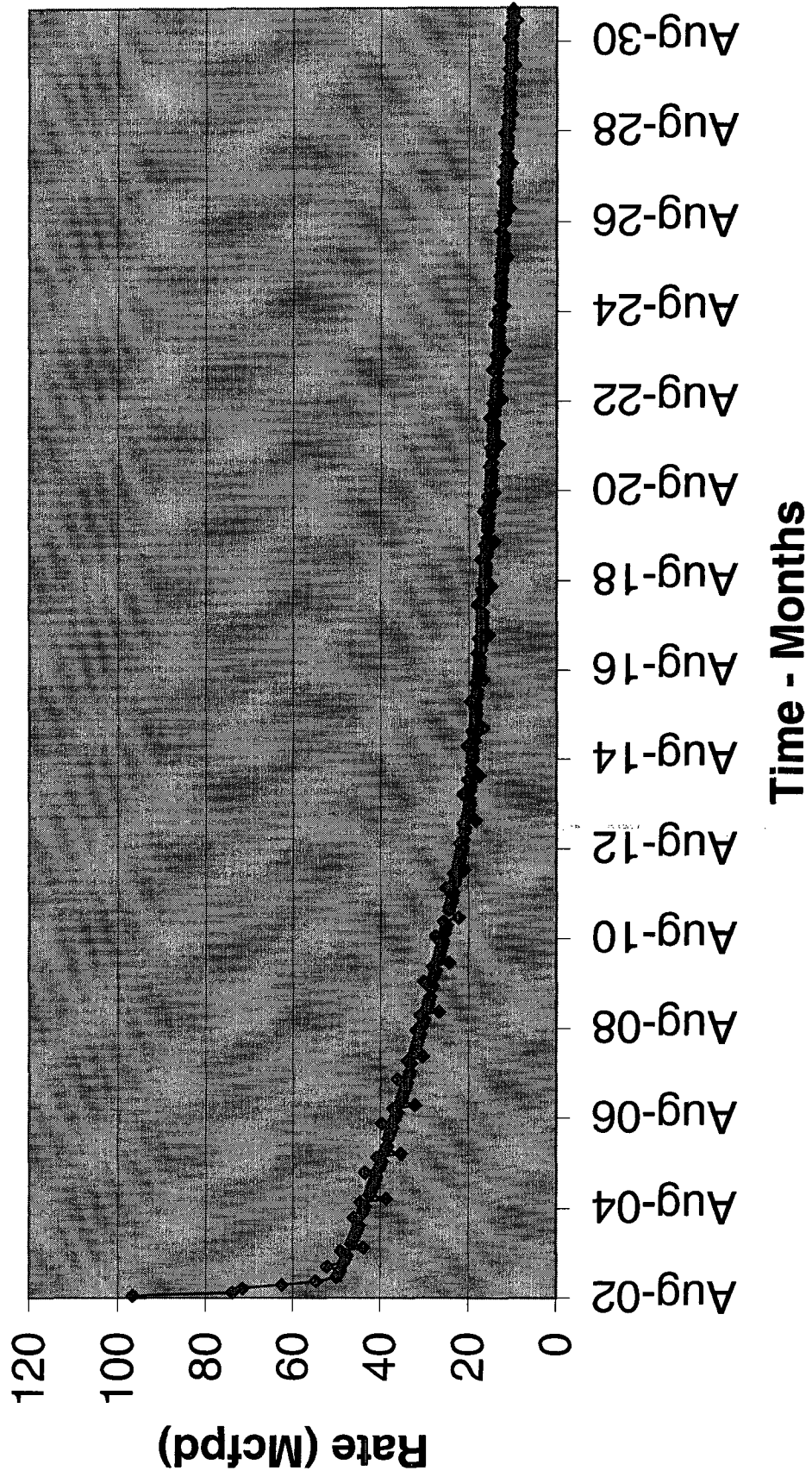
Cal Day Gas1 - mcf/d
 Cum: 100.419 MMSCF

Cal Day Gas FC 1 - mcf/d
 versus time
 Qi: 465.037 mcf/d, Jun, 2001
 Qf: 65.5806 mcf/d, Jul, 2036
 Di(Hyperbolic) : 55.8991
 n: 1.2
 RR: 493.581 MMSCF
 EUR: 594 MMSCF
 Corr coeff: N/A

Cal Day Water - Bbl/d
 Cum: 0.266 MSTB

Cum Gas1 - MMSCF
 Cum: 0

Jicarilla B2A Pictured Cliffs Rate Prediction



JICARILLA B - 2A (Jicarilla B-4 PC replacement)
Pictured Cliffs Forecast

EUR = 219.9 MMcf

Date	Rate Mcfpd	Rate MMcf
Aug-02	96.7	2.9
Sep-02	73.92	2.2
Oct-02	71.57	2.2
Nov-02	62.58	1.9
Dec-02	54.73	1.7
Jan-03	49.96	1.5
Feb-03	49.49	1.5
Mar-03	49.11	1.5
Apr-03	52.22	1.6
May-03	48.37	1.5
Jun-03	48	1.5
Jul-03	47.63	1.4
Aug-03	48.84	1.5
Sep-03	43.87	1.3
Oct-03	46.54	1.4
Nov-03	46.19	1.4
Dec-03	45.84	1.4
Jan-04	45.49	1.4
Feb-04	45.14	1.4
Mar-04	44.79	1.4
May-04	45.98	1.4
Jun-04	44.11	1.3
Jul-04	43.77	1.3
Aug-04	43.44	1.3
Sep-04	44.55	1.4
Oct-04	38.64	1.2
Nov-04	42.45	1.3
Dec-04	42.13	1.3
Jan-05	41.8	1.3
Feb-05	41.48	1.3
Mar-05	41.17	1.3
Apr-05	40.85	1.2
May-05	43.44	1.3
Jun-05	40.23	1.2
Jul-05	39.92	1.2
Aug-05	39.62	1.2
Sep-05	40.62	1.2
Oct-05	35.23	1.1
Nov-05	38.72	1.2
Dec-05	38.42	1.2
Feb-06	38.13	1.2
Mar-06	37.84	1.2
Apr-06	37.55	1.1

JICARILLA B - 2A (Jicarilla B-4 PC replacement)
Pictured Cliffs Forecast

EUR = 219.9 MMcf

Date	Rate Mcfpd	Rate MMcf
May-06	37.26	1.1
Jun-06	39.61	1.2
Jul-06	36.69	1.1
Aug-06	36.41	1.1
Sep-06	36.13	1.1
Oct-06	37.06	1.1
Nov-06	32.14	1.0
Dec-06	35.31	1.1
Jan-07	35.04	1.1
Feb-07	34.77	1.1
Mar-07	34.51	1.0
Apr-07	34.24	1.0
May-07	33.98	1.0
Jun-07	36.13	1.1
Jul-07	33.46	1.0
Aug-07	33.21	1.0
Oct-07	32.95	1.0
Nov-07	33.79	1.0
Dec-07	30.36	0.9
Jan-08	32.2	1.0
Feb-08	31.96	1.0
Mar-08	31.71	1.0
Apr-08	31.47	1.0
May-08	31.23	1.0
Jun-08	30.99	0.9
Jul-08	31.82	1.0
Aug-08	30.52	0.9
Sep-08	30.29	0.9
Oct-08	30.06	0.9
Nov-08	30.82	0.9
Dec-08	26.74	0.8
Jan-09	29.37	0.9
Feb-09	29.15	0.9
Mar-09	28.92	0.9
Apr-09	28.7	0.9
Jun-09	28.48	0.9
Jul-09	28.27	0.9
Aug-09	30.05	0.9
Sep-09	27.84	0.8
Oct-09	27.62	0.8
Nov-09	27.41	0.8
Dec-09	28.11	0.9
Jan-10	24.38	0.7

JICARILLA B - 2A (Jicarilla B-4 PC replacement)
Pictured Cliffs Forecast

EUR = 219.9 MMcf

Date	Rate Mcfpd	Rate MMcf
Feb-10	26.79	0.8
Mar-10	26.58	0.8
Apr-10	26.38	0.8
May-10	26.18	0.8
Jun-10	25.98	0.8
Jul-10	25.78	0.8
Aug-10	27.41	0.8
Sep-10	25.39	0.8
Oct-10	25.19	0.8
Nov-10	25	0.8
Dec-10	25.64	0.8
Jan-11	22.24	0.7
Mar-11	24.43	0.7
Apr-11	24.24	0.7
May-11	24.06	0.7
Jun-11	23.88	0.7
Jul-11	23.69	0.7
Aug-11	23.51	0.7
Sep-11	25	0.8
Oct-11	23.15	0.7
Nov-11	22.98	0.7
Dec-11	22.8	0.7
Jan-12	23.38	0.7
Feb-12	21	0.6
Mar-12	22.28	0.7
Apr-12	22.11	0.7
May-12	21.94	0.7
Jun-12	21.77	0.7
Jul-12	21.61	0.7
Aug-12	21.44	0.7
Sep-12	22.01	0.7
Oct-12	21.12	0.6
Dec-12	20.96	0.6
Jan-13	20.8	0.6
Feb-13	21.33	0.6
Mar-13	18.5	0.6
Apr-13	20.32	0.6
May-13	20.17	0.6
Jun-13	20.02	0.6
Jul-13	19.94	0.6
Aug-13	19.87	0.6
Sep-13	19.8	0.6
Oct-13	21.15	0.6

JICARILLA B - 2A (Jicarilla B-4 PC replacement)
Pictured Cliffs Forecast

EUR = 219.9 MMcf

Date	Rate Mcfpd	Rate MMcf
Nov-13	19.67	0.6
Dec-13	19.6	0.6
Jan-14	19.53	0.6
Feb-14	20.12	0.6
Mar-14	17.52	0.5
Apr-14	19.34	0.6
May-14	19.27	0.6
Jul-14	19.21	0.6
Aug-14	19.14	0.6
Sep-14	19.08	0.6
Oct-14	19.01	0.6
Nov-14	20.3	0.6
Dec-14	18.88	0.6
Jan-15	18.82	0.6
Feb-15	18.75	0.6
Mar-15	19.31	0.6
Apr-15	16.83	0.5
May-15	18.56	0.6
Jun-15	18.5	0.6
Jul-15	18.44	0.6
Aug-15	18.37	0.6
Sep-15	18.31	0.6
Oct-15	18.25	0.6
Nov-15	19.49	0.6
Dec-15	18.13	0.6
Jan-16	18.06	0.5
Feb-16	18	0.5
Apr-16	18.54	0.6
May-16	16.73	0.5
Jun-16	17.82	0.5
Jul-16	17.76	0.5
Aug-16	17.7	0.5
Sep-16	17.64	0.5
Oct-16	17.58	0.5
Nov-16	17.52	0.5
Dec-16	18.06	0.5
Jan-17	17.4	0.5
Feb-17	17.34	0.5
Mar-17	17.28	0.5
Apr-17	17.79	0.5
May-17	15.51	0.5
Jun-17	17.11	0.5
Jul-17	17.05	0.5

JICARILLA B - 2A (Jicarilla B-4 PC replacement)
Pictured Cliffs Forecast

EUR = 219.9 MMcf

Date	Rate Mcfd	Rate MMcf
Aug-17	16.99	0.5
Sep-17	16.93	0.5
Oct-17	16.88	0.5
Nov-17	16.82	0.5
Jan-18	17.96	0.5
Feb-18	16.71	0.5
Mar-18	16.65	0.5
Apr-18	16.59	0.5
May-18	17.09	0.5
Jun-18	14.89	0.5
Jul-18	16.42	0.5
Aug-18	16.37	0.5
Sep-18	16.31	0.5
Oct-18	16.26	0.5
Nov-18	16.2	0.5
Dec-18	16.15	0.5
Jan-19	17.24	0.5
Feb-19	16.04	0.5
Mar-19	15.98	0.5
Apr-19	15.93	0.5
May-19	16.4	0.5
Jun-19	14.29	0.4
Jul-19	15.77	0.5
Sep-19	15.71	0.5
Oct-19	15.66	0.5
Nov-19	15.61	0.5
Dec-19	15.55	0.5
Jan-20	15.5	0.5
Feb-20	16.55	0.5
Mar-20	15.4	0.5
Apr-20	15.34	0.5
May-20	15.29	0.5
Jun-20	15.75	0.5
Jul-20	14.21	0.4
Aug-20	15.14	0.5
Sep-20	15.08	0.5
Oct-20	15.03	0.5
Nov-20	14.98	0.5
Dec-20	14.93	0.5
Jan-21	14.88	0.5
Feb-21	15.34	0.5
Mar-21	14.78	0.4
May-21	14.73	0.4

JICARILLA B - 2A (Jicarilla B-4 PC replacement)
Pictured Cliffs Forecast

EUR = 219.9 MMcf

Date	Rate Mcfpd	Rate MMcf
Jun-21	14.68	0.4
Jul-21	15.12	0.5
Aug-21	13.17	0.4
Sep-21	14.53	0.4
Oct-21	14.48	0.4
Nov-21	14.43	0.4
Dec-21	14.38	0.4
Jan-22	14.33	0.4
Feb-22	14.29	0.4
Mar-22	15.26	0.5
Apr-22	14.19	0.4
May-22	14.14	0.4
Jun-22	14.09	0.4
Jul-22	14.51	0.4
Aug-22	12.65	0.4
Sep-22	13.95	0.4
Oct-22	13.9	0.4
Nov-22	13.85	0.4
Dec-22	13.81	0.4
Jan-23	13.76	0.4
Mar-23	13.71	0.4
Apr-23	14.65	0.4
May-23	13.62	0.4
Jun-23	13.57	0.4
Jul-23	13.53	0.4
Aug-23	13.93	0.4
Sep-23	12.14	0.4
Oct-23	13.39	0.4
Nov-23	13.35	0.4
Dec-23	13.3	0.4
Jan-24	13.26	0.4
Feb-24	13.21	0.4
Mar-24	13.17	0.4
Apr-24	14.06	0.4
May-24	13.08	0.4
Jun-24	13.03	0.4
Jul-24	12.99	0.4
Aug-24	13.37	0.4
Sep-24	12.07	0.4
Nov-24	12.86	0.4
Dec-24	12.81	0.4
Jan-25	12.77	0.4
Feb-25	12.72	0.4

JICARILLA B - 2A (Jicarilla B-4 PC replacement)
Pictured Cliffs Forecast

EUR = 219.9 MMcf

Date	Rate Mcfpd	Rate MMcf
Dec-28	10.25	0.3
Jan-29	10.92	0.3
Feb-29	10.88	0.3
Mar-29	10.84	0.3
Apr-29	10.81	0.3
May-29	10.77	0.3
Jun-29	10.73	0.3
Jul-29	11.07	0.3
Aug-29	10.66	0.3
Sep-29	10.63	0.3
Oct-29	10.59	0.3
Dec-29	10.9	0.3
Jan-30	9.5	0.3
Feb-30	10.48	0.3
Mar-30	10.45	0.3
Apr-30	10.41	0.3
May-30	10.38	0.3
Jun-30	10.34	0.3
Jul-30	10.31	0.3
Aug-30	11	0.3
Sep-30	10.24	0.3
Oct-30	10.2	0.3
Nov-30	10.17	0.3
Dec-30	10.47	0.3
Jan-31	9.12	0.3
Feb-31	10.06	0.3
Mar-31	10.03	0.3
Apr-31	10.01	0.3

JICARILLA B - 2A (Jicarilla B-4 PC replacement)
Pictured Cliffs Forecast

EUR = 219.9 MMcf

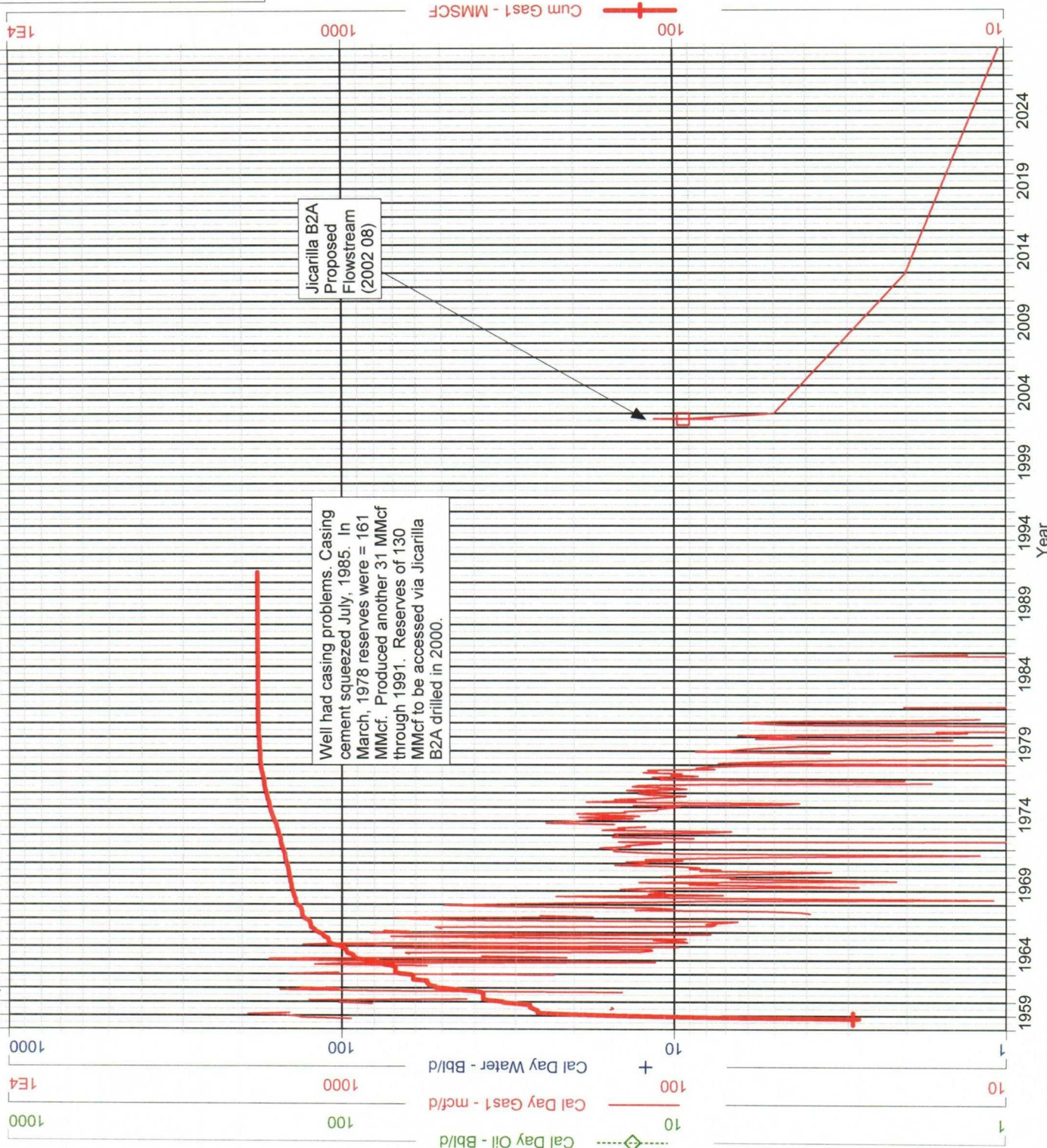
Date	Rate Mcfpd	Rate MMcf
Mar-25	12.68	0.4
Apr-25	12.64	0.4
May-25	13.03	0.4
Jun-25	12.55	0.4
Jul-25	12.51	0.4
Aug-25	12.47	0.4
Sep-25	12.84	0.4
Oct-25	11.18	0.3
Nov-25	12.34	0.4
Dec-25	12.3	0.4
Jan-26	12.26	0.4
Feb-26	12.22	0.4
Mar-26	12.17	0.4
Apr-26	12.13	0.4
May-26	12.95	0.4
Jul-26	12.05	0.4
Aug-26	12.01	0.4
Sep-26	11.97	0.4
Oct-26	12.33	0.4
Nov-26	10.74	0.3
Dec-26	11.85	0.4
Jan-27	11.81	0.4
Feb-27	11.77	0.4
Mar-27	11.73	0.4
Apr-27	11.69	0.4
May-27	11.65	0.4
Jun-27	12.44	0.4
Jul-27	11.57	0.4
Aug-27	11.53	0.4
Sep-27	11.49	0.3
Oct-27	11.83	0.4
Nov-27	10.31	0.3
Dec-27	11.37	0.3
Jan-28	11.34	0.3
Mar-28	11.3	0.3
Apr-28	11.26	0.3
May-28	11.22	0.3
Jun-28	11.18	0.3
Jul-28	11.94	0.4
Aug-28	11.11	0.3
Sep-28	11.07	0.3
Oct-28	11.03	0.3
Nov-28	11.36	0.3

JICARILLA B - 4_PC (1884921) Data: Jul.1959-Oct.1991

Operator: CONOCO INC
 Field: TAPACITO (PICTURED CLIFFS) PC
 Zone: PICTURED CLIFFS
 Type: Gas
 Group: Well: South Area Wells

B2A PC flowstream (Rate-Time)
 qi: 100 mcf/d, Aug. 2002
 qf: 10.0057 mcf/d, Dec. 2029
 di(Exp): 80 CTD: 1789.97 MMSCF
 RR: 219.821 MMSCF Tot: 2009.79 MMSCF

Production Cums
 Oil: 0 MSTB
 Gas: 1789.97 MMSCF
 Water: 0 MSTB
 Cond: 0 MSTB



Cal Day Oil - Bbl/d
 Cum: 0 MSTB
 Cal Day Gas1 - mcf/d
 Cum: 1789.97 MMSCF
 B2A PC flowstream - mcf/d
 versus time
 Qi: 100 mcf/d, Aug, 2002
 Qf: 10.0057 mcf/d, Dec, 2029
 Di(Exponential) : 80
 RR: 219.821 MMSCF
 EUR: 2009.79 MMSCF
 Corr coeff: N/A
 Cal Day Water - Bbl/d
 Cum: 0 MSTB
 Cum Gas1 - MMSCF
 Cum: 0

Well: JICARILLA B - 2A
Mesaverde Forecast

	WI	
	Cal Day	Gas1
Date	mcf/d	
2002	173	Aug-Dec
2003	134	
2004	103	
2005	84	
2006	71	
2007	62	
2008	55	
2009	50	
2010	46	
2011	42	
2012	39	
2013	37	
2014	34	
2015	32	
2016	31	
2017	29	
2018	28	
2019	26	
2020	25	
2021	24	
2022	23	
2023	22	
2024	22	
2025	21	
2026	20	
2027	20	
2028	19	
2029	18	
2030	18	
2031	17	
2032	17	
2033	17	
2034	16	
2035	16	
2036	16	

Well: JICARILLA B - 2A
PC Forecast

	WI	
	Cal Day	Gas1
Date	mcf/d	
2002	71.9	Aug-Dec
2003	48.0	
2004	43.9	
2005	40.1	
2006	36.9	
2007	34.0	
2008	30.8	
2009	28.4	
2010	26.1	
2011	23.8	
2012	21.9	
2013	20.2	
2014	19.3	
2015	18.5	
2016	17.8	
2017	17.1	
2018	16.5	
2019	15.9	
2020	15.3	
2021	14.6	
2022	14.1	
2023	13.6	
2024	13.1	
2025	12.5	
2026	12.1	
2027	11.6	
2028	11.2	
2029	10.7	
2030	10.3	
2031	10.1	
2032	9.9	
2033	9.7	
2034	9.5	
2035	9.3	
2036	9.1	

Well: JICARILLA B - 2A
MV & PC Forecast

	PC & MV	
	Date	Mcfpd
2002	244	
2003	182	
2004	147	
2005	124	
2006	108	
2007	96	
2008	86	
2009	78	
2010	72	
2011	66	
2012	61	
2013	57	
2014	54	
2015	51	
2016	48	
2017	46	
2018	44	
2019	42	
2020	41	
2021	39	
2022	37	
2023	36	
2024	35	
2025	34	
2026	32	
2027	31	
2028	30	
2029	29	
2030	28	
2031	28	
2032	27	
2033	26	
2034	26	
2035	25	
2036	25	

Jicarilla B2A Production Allocation Plot

