

DATE <u>06/11/09</u>	SUSPENSE	ENGINEER <u>W. Jones</u>	LOGGED IN <u>06/11/09</u>	TYPE <u>DHC</u> <u>4196</u>	APP NO. <u>06AA0916248496</u>
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ABOVE THIS LINE FOR DIVISION USE ONLY

RECEIVED

NEW MEXICO OIL CONSERVATION DIVISION

- Engineering Bureau -

2009 JUN 11 AM 11 16 1220 South St. Francis Drive, Santa Fe, NM 87505



30-045-30667

NM State Com M

001A

FourStar 131994

## 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  
Commissioner of Public Lands, New Mexico 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.

Print or Type Name: Alan W. Bohling

Signature: Alan W. Bohling

Title: Regulatory Agent Date: June 4, 2009

e-mail Address: ABohling@chevron.com



Chevron Midcontinent, L.P.  
15 Smith Road  
Midland, Texas 79705  
Tel: 432-687-7158  
Fax: 432-687-7289  
[ABohlin@chevron.com](mailto:ABohlin@chevron.com)

June 04, 2009

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

RE: Administrative DHC Application, New Mexico Com M #1A Well  
API No. 30-045-30667  
UL F, Section 36, Township 31 North, Range 12 West NMPM  
San Juan County, New Mexico

Gentlemen:

Four Star Oil & Gas Co. respectfully submits this application to the New Mexico Oil Conservation Division for Administrative approval allowing the down-hole commingle producing of two zones, the Fruitland Coal and Mesaverde, within the New Mexico Com M #1A wellbore. Working Interest Ownership is the same for each of these two zones.

Enclosed with this cover letter, you will find the required information:

1. NMOCD Form C-102(s) (Showing each zone(s) spacing unit and acreage dedication).
2. NMOCD Form C-107A including Supplemental Information.
3. Copies of other pertinent information (Production Curves, Pressure Data & Wellbore Diagram).

A Copy of this Administrative DHC Application, with attachments, is concurrently being sent to the Commissioner of Public Lands, New Mexico State Land Office.

If after your review of the enclosed material you should require any additional information, please contact me at 432-687-7158 ([ABohling@chevron.com](mailto:ABohling@chevron.com)) for non-technical information, or Mr. Jarrod Sparks at 281-561-3772 for technical information.

Thank you in advance for your review and approval of our Administrative Application for Downhole Commingling of the Fruitland Coal and Mesaverde zones within the New Mexico Com M #1A wellbore.

Sincerely,

A handwritten signature in cursive script that reads "Alan W. Bohling".

Alan W. Bohling  
Regulatory Agent

Cc: Jarrod W. Sparks

District I  
1625 N. French Drive, Hobbs, NM 88240  
District II  
1301 W. Grand Avenue, Artesia, NM 88210  
District III  
1000 Rio Brazos Road, Aztec, NM 87410  
District IV  
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico  
Energy, Minerals and Natural Resources Department

Form C-107A  
Revised June 10, 2003

Oil Conservation Division  
1220 South St. Francis Dr.  
Santa Fe, New Mexico 87505

APPLICATION TYPE  
☒ Single Well  
☐ Establish Pre-Approved Pools  
EXISTING WELLBORE  
☒ Yes ☐ No

APPLICATION FOR DOWNHOLE COMMINGLING

Four star Oil & Gas Company (131994) 15 Smith Road, Midland, Texas 79705

Operator Address  
☒ New Mexico ☐ Com M ☐ IA ☐ F-Sec. 36 - T31N - R12W ☐ San Juan  
Lease Well No. Unit Letter-Section-Township-Range County

OGRID No. 131994 Property Code 17721 API No. 30-045-30556 Lease Type: ☐ Federal ☒ State ☐ Fee

DATA ELEMENT	UPPER ZONE	INTERMEDIATE ZONE	LOWER ZONE
Pool Name	Basin-Fruitland Coal		Blanco-Mesaverde
Pool Code	71629		72319
Top and Bottom of Pay Section (Perforated or Open-Hole Interval)	Proposed (2285'-2345')		(4302'-4896')
Method of Production (Flowing or Artificial Lift)	Artificial Lift Proposed-Rod Pump		Artificial Lift Proposed-Rod Pump
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)	375# Calculated from Offset SITP (see attached explanation)		120#
Oil Gravity or Gas BTU (Degree API or Gas BTU)	1160 BTU (Ideal) - from offset FC well (see attached)		1246 BTU (ideal/saturated)
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: N/A Rates: See attached rates <i>Incremental</i>	Date: Rates: <i>Subtraction METHOD</i>	Date: 1/29/09 Rates: 110 mcf/d <1 BWPD 0 BOPD <i>Decline</i>
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 0 % % (See proposed Allocation Method attached sub sheet)	Oil Gas % % %	Oil Gas 100 % % (See proposed Allocation Method attached sub sheet)

ADDITIONAL DATA

Are all working, royalty and overriding royalty interests identical in all commingled 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 commingled 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: \_\_\_\_\_

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 *Alan W. Bohling* TITLE Regulatory Agent DATE June 04, 2009

TYPE OR PRINT NAME Alan W. Bohling TELEPHONE NO. ( 432 ) 687-7158

E-MAIL ADDRESS ABohling@chevron.com

## **NM COM M-1A Supplemental Data for C-107A**

### **Well History**

This well was drilled and completed in the Mesaverde in March, 2002. Four Star Oil & Gas Co. proposes to add the Fruitland Coal and seeks approval to downhole commingle both of these zones. Current economic limitations does not warrant the drilling and completing of a stand-alone Fruitland Coal gas well, thus downhole commingling is the best method of capturing any existing Fruitland Coal reserves.

### **Expected Production Explanation:**

Currently this well is producing approximately 110 mcfpd from the Mesaverde (MV) with occasional very small quantities of oil and water. Review of several recent Fruitland Coal (FC) offset producers, determined an expected original FC production rate around 100 mcfpd with a dewatering stage of 2 years at a 5% increase in gas. Afterwards, based on older FC offset production, an expected decline in gas rate of 12% a year was used. No oil production is anticipated from the FC. Please see the attached production curves and tables for supporting data.

### **Allocation Explanation:**

Four Star Oil & Gas Co. proposes to use an allocation calculated through the 'subtraction' method. Baseline production of the Mesaverde (MV) and decline will be established from existing gas production. The incremental production from the FC will be used to determine an appropriate allocation factor for the new zone.

### **Bottom Hole Pressure Explanation:**

Currently, the NM Com M-1A is producing from the Point Lookout and Menefee portions of the Mesaverde with a bottom-hole pressure of 120#. After completing in the Fruitland Coal, initial bottom-hole pressure of 375#, based on a recent nearby offset FC producer, is expected. It should be noted, that the NM Com M-1A is already tied into a compressor with expected suction pressure to be ~15# and will be on rod pump. This will allow the produced fluids to be pumped off. Four Star Oil & Gas Co. does not expect any cross flow between the two zones.

District I  
1625 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 October 12, 2005  
Submit to Appropriate District Office  
State Lease - 4 Copies  
Fee Lease - 3 Copies

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

<sup>1</sup> API Number 30-045-30667	<sup>2</sup> Pool Code 71629	<sup>3</sup> Pool Name Basin-Fruitland Coal
<sup>4</sup> Property Code 17721	<sup>5</sup> Property Name New Mexico Com M	<sup>6</sup> Well Number 1A
<sup>7</sup> OGRID No. 131994	<sup>8</sup> Operator Name Four Star Oil & Gas Company	<sup>9</sup> Elevation 5892'

<sup>10</sup> Surface Location

UL or lot no. F	Section 36	Township 31N	Range 12W	Lot Idn	Feet from the 1610	North/South line North	Feet from the 1895	East/West line West	County San Juan
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<sup>11</sup> 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
<sup>12</sup> Dedicated Acres 320 (N/2)	<sup>13</sup> Joint or Infill J	<sup>14</sup> Consolidation Code	<sup>15</sup> 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.

<div><p><sup>16</sup></p></div>	<div><p><sup>17</sup> OPERATOR CERTIFICATION</p><p>I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.</p><p><i>Alan W. Bohling</i> May 26, 2009 Signature Date</p><p>Alan W. Bohling - Regulatory Agent Printed Name</p></div>
<div><p><sup>18</sup> SURVEYOR CERTIFICATION</p><p>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.</p><p>04/06/2001 Date of Survey</p><p>Signature and Seal of Professional Surveyor:</p><p>Neale C. Edwards 6857 Certificate Number</p></div>	

District I  
1625 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 October 12, 2005  
Submit to Appropriate District Office  
State Lease - 4 Copies  
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☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

<sup>1</sup> API Number 30-045-30667	<sup>2</sup> Pool Code 72319	<sup>3</sup> Pool Name Blanco-Mesaverde
<sup>4</sup> Property Code 17721	<sup>5</sup> Property Name New Mexico Com M	<sup>6</sup> Well Number 1A
<sup>7</sup> OGRID No. 131994	<sup>8</sup> Operator Name Four Star Oil & Gas Company	<sup>9</sup> Elevation 5892'

<sup>10</sup> Surface Location

UL or lot no. F	Section 36	Township 31N	Range 12W	Lot Idn	Feet from the 1610	North/South line North	Feet from the 1895	East/West line West	County San Juan
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<sup>11</sup> 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
<sup>12</sup> Dedicated Acres 320 (N/2)	<sup>13</sup> Joint or Infill J	<sup>14</sup> Consolidation Code	<sup>15</sup> 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.

<sup>16</sup> 	<sup>17</sup> <b>OPERATOR CERTIFICATION</b> <i>I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.</i>  Signature May 26, 2009 Date Alan W. Bohling - Regulatory Agent Printed Name
	<sup>18</sup> <b>SURVEYOR CERTIFICATION</b> <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> 04/06/2001 Date of Survey Signature and Seal of Professional Surveyor:  Neale C. Edwards 6857 Certificate Number

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

*API Number 30-045-3066-7		*Pool Code 72319		*Pool Name BLANCO MESAVERDE	
*Property Code 17721		*Property Name NEW MEXICO COM M			*Well Number 1A
*GRID No. 131994		*Operator Name FOUR STAR OIL & GAS COMPANY			*Elevation 5938'

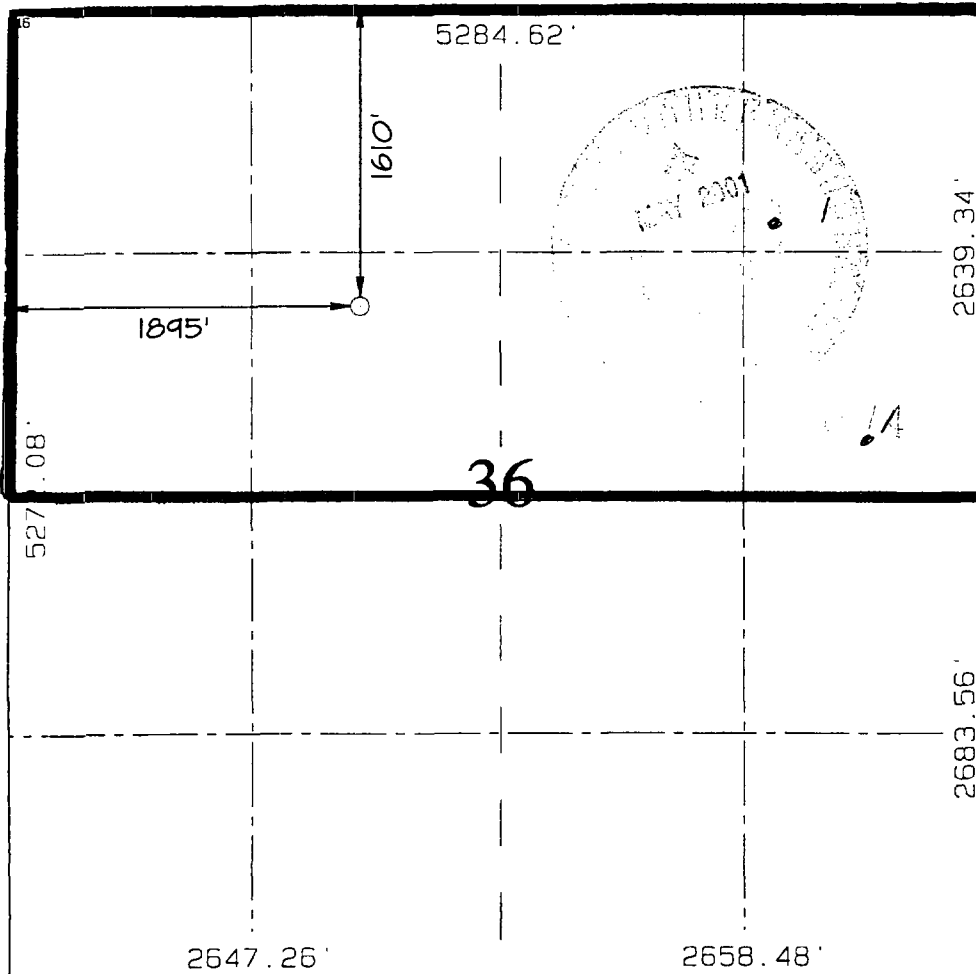
<sup>10</sup> Surface Location

UL or lot no. F	Section 36	Township 31N	Range 12W	Lot Idn	Feet from the 1610	North/South line NORTH	Feet from the 1895	East/West line WEST	County SAN JUAN
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<sup>11</sup> 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
*Dedicated Acres 320 N/2		*Joint or Infill		*Consolidation Code		*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



<sup>17</sup> OPERATOR CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief

Arthur D. Archibeque  
Signature  
Arthur D. Archibeque  
Printed Name  
Engineer Assistant  
Title  
4/12/001  
Date

<sup>18</sup> 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.

APRIL 6, 2001  
Date of Survey  
NEALE C. EDWARDS  
Signature and Seal of Professional Surveyor  
  
Certificate 6857

NM Com M-1A Production Table

Proposed FC Production Rates				Proposed MV Production Rates		
*Based on Recent Offset FC Completions (attach'd)				**Based on Current Rate @ 12% Decline		
Month	Gas (MCFD)	Oil (BOPD)	Water (BWPD)	Gas (MCFD)	Oil (BOPD)	Water (BWPD)
1	100.0	0	10	110.0	0	0
2	105.0	0	9	108.9	0	0
3	110.3	0	8	107.8	0	0
4	115.8	0	7	106.7	0	0
5	121.6	0	7	105.7	0	0
6	127.6	0	6	104.6	0	0
7	134.0	0	5	103.6	0	0
8	140.7	0	5	102.5	0	0
9	147.7	0	4	101.5	0	0
10	155.1	0	4	100.5	0	0
11	162.9	0	3	99.5	0	0
12	171.0	0	3	98.5	0	0
13	179.6	0	3	97.5	0	0
14	188.6	0	3	96.5	0	0
15	198.0	0	2	95.6	0	0
16	207.9	0	2	94.6	0	0
17	218.3	0	2	93.7	0	0
18	229.2	0	2	92.7	0	0
19	240.7	0	2	91.8	0	0
20	252.7	0	1	90.9	0	0
21	265.3	0	1	90.0	0	0
22	278.6	0	1	89.1	0	0
23	292.5	0	1	88.2	0	0
24	307.2	0	1	87.3	0	0
25	304.1	0	1	86.4	0	0
26	301.0	0	1	85.6	0	0
27	298.0	0	1	84.7	0	0
28	295.0	0	1	83.9	0	0
29	292.1	0	1	83.0	0	0
30	289.2	0	0	82.2	0	0
31	286.3	0	0	81.4	0	0
32	283.4	0	0	80.6	0	0
33	280.6	0	0	79.7	0	0
34	277.8	0	0	79.0	0	0
35	275.0	0	0	78.2	0	0
36	272.3	0	0	77.4	0	0

\*\*MV – Current Production at current decline of 12%.

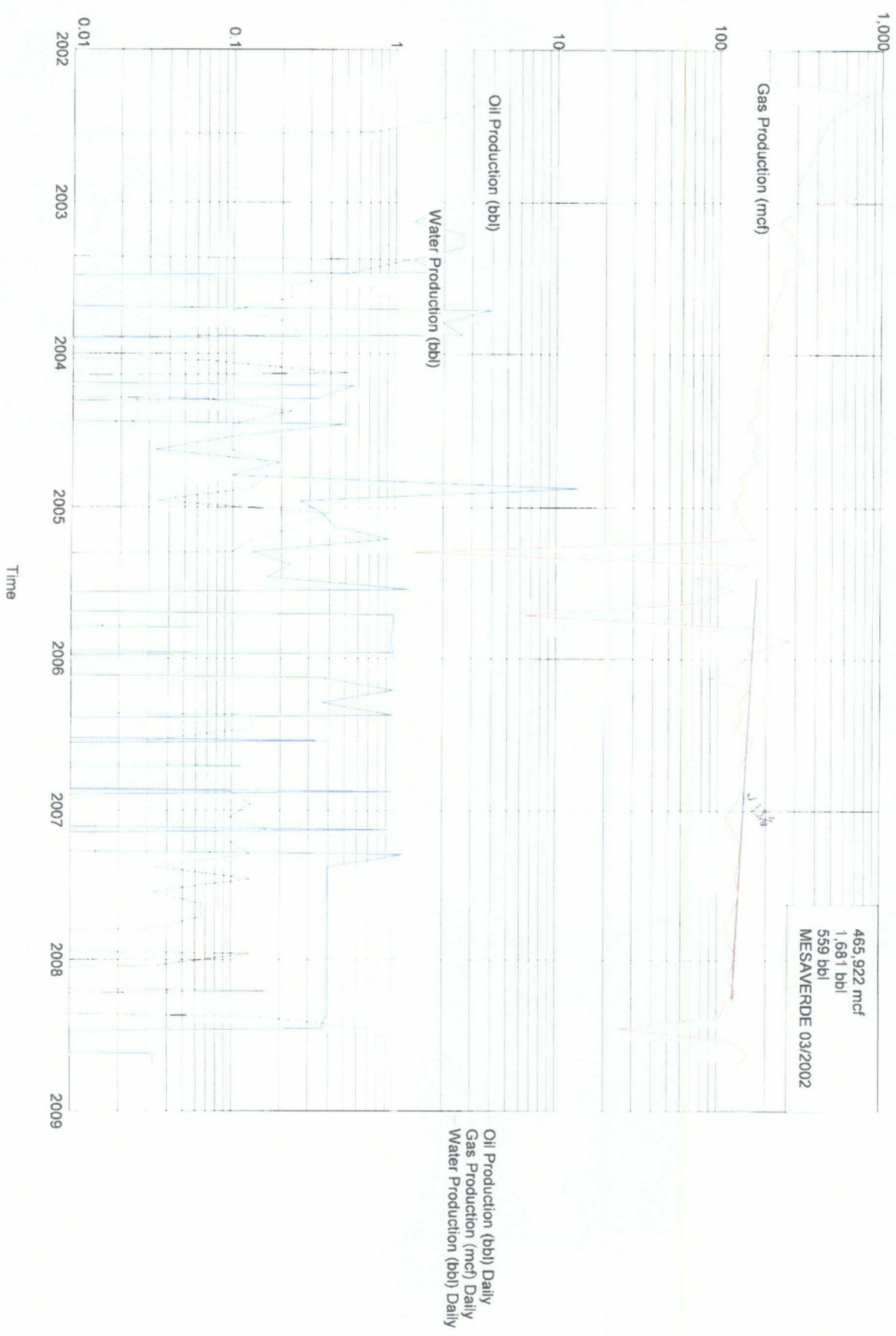
\*FC – 2 year dewater w/ initial prod of 100 MCFD and 12% decline after dewatering.



Analysis / 10000

Lease Name: NEW MEXICO COM M  
County, State: SAN JUAN, NM  
Operator: FOUR STAR OIL & GAS COMPANY  
Field: BLANCO  
Reservoir: MESAVERDE  
Location: 36 31N 12W NW SE NW

NEW MEXICO COM M - 1A BLANCO 30045306670000 36 31N 12W NW SE NW



SAN JUAN NM  
NEW MEXICO COM M 1A  
FOUR STAR OIL & GAS COMPANY  
ACTIVE

## Production Report

<b>Lease Name:</b> NEW MEXICO COM M Lease Number: Operator Name: FOUR STAR OIL & GAS COMP State: NEW MEXICO County: SAN JUAN Field: BLANCO Sec Twn Rng: 36F 31N 12W Latitude/Longitude: 36.85848 -108.05193 Regulatory #: 30045306670000 API: 2300430453066772319 Production ID: Reservoir Name: MESAVERDE Prod Zone: MESAVERDE Prod Zone Code: 604MVRD Basin Name: SAN JUAN BASIN Gas Gatherer: Liquid Gatherer: Status: ACTIVE GAS	<b>Well Number:</b> 1A Cum Oil: 560 since APR 2002 Cum Gas: 478,197 Cum Water: 1,707 since JAN 2003 First Production Date: MAR 2002 Last Production Date: DEC 2008 Spot: NW SE NW Lat/Long Source: TS Completion Date: MAR 21, 2002 Total Depth: Upper Perforation: Lower Perforation: Gas Gravity: Oil Gravity: Temp Gradient: N Factor: GOR:
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Annual Production	(7 years)		
Year	Oil BBLs	Gas MCF	Water BBLs

Beginning

Cum:

2002	308	142,521		
2003	86	90,719	615	
2004	51	59,783	485	
2005	31	44,975	225	
2006	20	50,196	124	
2007	30	46,267	159	
2008	34	43,736	99	
Totals:	560	478,197	1,707	

Monthly Production	(Most recent 48 of 82 months)						
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Date MO/YR	Oil BBLs	Gas MCF	Water BBLs	Cond Yld STB/MMCF	% Water	# of Wells	Days on
DEC 2004	1	3,827	8	0.27	88.89	1	31
Totals:							
2004	51	59,783	485				

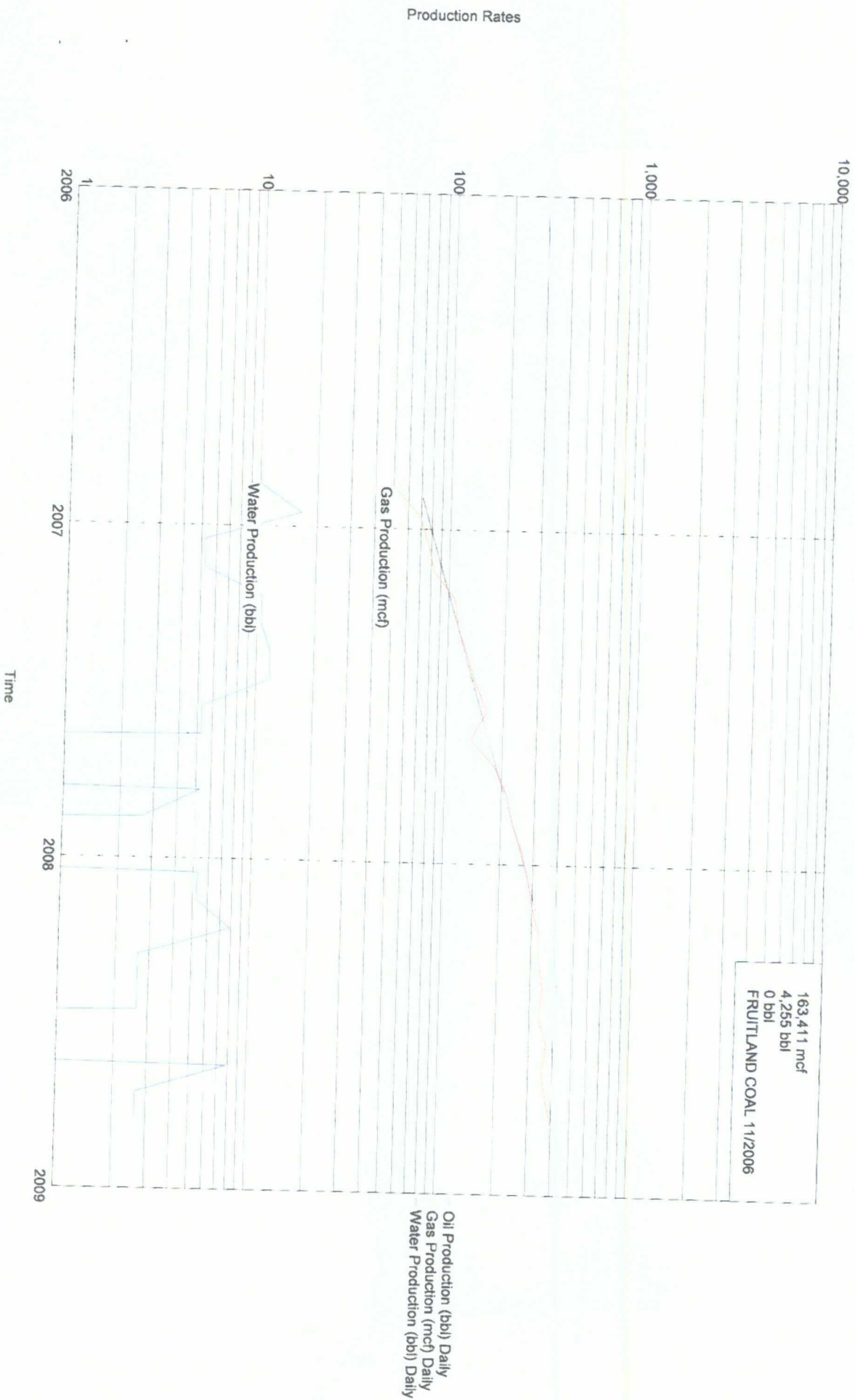
JAN 2005	12	3,999	11	3.01	47.83	1	31
FEB 2005	8	4,386	13	1.83	61.90	1	28
MAR 2005	4	5,148	28	0.78	87.50	1	31
APR 2005	3	39	4	76.93	57.14	1	30
MAY 2005	0	4,707	7			1	31
JUN 2005	0	2,270	5			1	30
JUL 2005	0	3,737	38			1	31
AUG 2005	0	2,367	0			1	31
SEP 2005	0	193	30			1	30
OCT 2005	2	5,008	30	0.40	93.75	1	31
NOV 2005	0	8,384	29			1	30
DEC 2005	2	4,737	30	0.43	93.75	1	31
Totals: 2005	31	44,975	225				
JAN 2006	0	4,145	0			1	31
FEB 2006	0	2,776	11			1	28
MAR 2006	0	4,734	30			1	31
APR 2006	0	4,062	11			1	30
MAY 2006	4	4,366	30	0.92	88.24	1	31
JUN 2006	4	3,914	0	1.03		1	30
JUL 2006	1	5,005	12	0.20	92.31	1	31
AUG 2006	0	4,603	0			1	31
SEP 2006	4	4,190	0	0.96		1	30
OCT 2006	0	4,239	0			1	31
NOV 2006	3	4,267	30	0.71	90.91	1	30
DEC 2006	4	3,895	0	1.03		1	31
Totals: 2006	20	50,196	124				
JAN 2007	3	3,418	0	0.88		1	31
FEB 2007	5	3,796	28	1.32	84.85	1	28
MAR 2007	3	4,141	0	0.73		1	31
APR 2007	4	4,146	35	0.97	89.74	1	30
MAY 2007	1	4,070	12	0.25	92.31	1	31
JUN 2007	4	3,946	12	1.02	75.00	1	30
JUL 2007	1	4,137	12	0.25	92.31	1	31
AUG 2007	2	4,004	12	0.50	85.71	1	31
SEP 2007	2	3,610	12	0.56	85.71	1	30
OCT 2007	1	3,479	12	0.29	92.31	1	31
NOV 2007	0	3,585	12			1	30
DEC 2007	4	3,935	12	1.02	75.00	1	31
Totals: 2007	30	46,267	159				
JAN 2008	1	3,793	12	0.27	92.31	1	31
FEB 2008	0	3,585	12			1	29
MAR 2008	6	3,993	12	1.51	66.67	1	31
APR 2008	0	3,416	12			1	30
MAY 2008	4	3,195	12	1.26	75.00	1	31
JUN 2008	22	775	11	28.39	33.33	1	30
JUL 2008	0	3,828	0			1	31
AUG 2008	0	4,728	1			1	31
SEP 2008	0	4,148	1			1	30
OCT 2008	1	4,559	2	0.22	66.67	1	31
NOV 2008		3,663	12			1	30

DEC 2008		4,053	12	1	31
Totals:					
2008	34	43,736	99		

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Lease Name: RED RIVER  
 County, State: SAN JUAN, NM  
 Operator: MCKAY OIL & GAS LIMITED LIABILITY CO  
 Field: BASIN  
 Reservoir: FRUITLAND COAL  
 Location: 2 30N 12W NW SE SE

RED RIVER - 1 BASIN 30045337270000



SAN JUAN NM  
RED RIVER 1  
MCKAY OIL & GAS LIMITED LIABILITY CORP  
ACTIVE

## Production Report

<b>Lease Name:</b> RED RIVER <b>Lease Number:</b> <b>Operator Name:</b> MCKAY OIL & GAS LIMITED <b>State:</b> NEW MEXICO <b>County:</b> SAN JUAN <b>Field:</b> BASIN <b>Sec Twn Rng:</b> 2P 30N 12W <b>Latitude/Longitude:</b> 36.83724 -108.06094 <b>Regulatory #:</b> <b>API:</b> 30045337270000 <b>Production ID:</b> 2300430453372771629 <b>Reservoir Name:</b> FRUITLAND COAL <b>Prod Zone:</b> FRUITLAND COAL <b>Prod Zone Code:</b> 604FRLDC <b>Basin Name:</b> SAN JUAN BASIN <b>Gas Gatherer:</b> <b>Liquid Gatherer:</b> <b>Status:</b> ACTIVE	<b>Well Number:</b> 1 <b>Cum Oil:</b> <b>Cum Gas:</b> 188,418 <b>Cum Water:</b> 4,415 <b>First Production Date:</b> NOV 2006 <b>Last Production Date:</b> DEC 2008 <b>Spot:</b> NW SE SE <b>Lat/Long Source:</b> TS <b>Completion Date:</b> AUG 26, 2006 <b>Total Depth:</b> 2280 <b>Upper Perforation:</b> <b>Lower Perforation:</b> <b>Gas Gravity:</b> <b>Oil Gravity:</b> <b>Temp Gradient:</b> <b>N Factor:</b> <b>GOR:</b>
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Annual Production	(3 years)		
Year	Oil BBLS	Gas MCF	Water BBLs

Beginning

Cum:			
2006	3,621		815
2007	55,969		2,240
2008	128,828		1,360
Totals:	188,418		4,415

### Monthly Production

Date MO/YR	Oil BBLS	Gas MCF	Water BBLs	Cond Yld STB/MMCF	% Water	# of Wells	Days on
NOV 2006		1,533	310			1	30
DEC 2006		2,088	505			1	30
Totals: 2006		3,621	815				
JAN 2007		2,342	160			1	30
FEB 2007		2,532	160			1	28

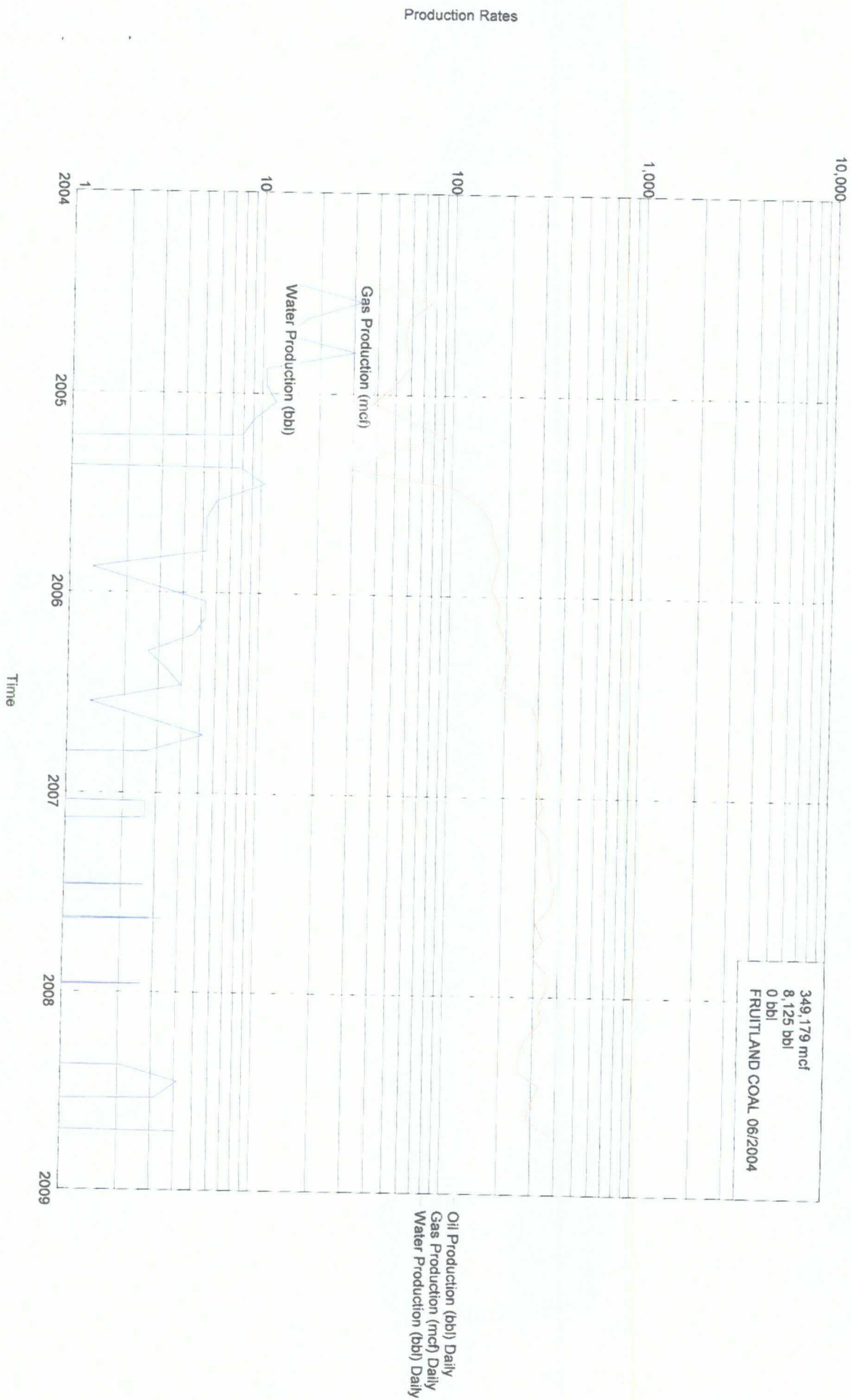
MAR 2007	3,307	320	1	30
APR 2007	3,439	320	1	30
MAY 2007	3,881	360	1	30
JUN 2007	4,321	360	1	30
JUL 2007	4,981	160	1	30
AUG 2007	4,131	160	1	30
SEP 2007	5,605	0	1	30
OCT 2007	6,509	160	1	30
NOV 2007	7,013	80	1	30
DEC 2007	7,908		1	30
Totals:				
2007	<u>55,969</u>	<u>2,240</u>		

JAN 2008	8,588	160	1	30
FEB 2008	9,084	160	1	29
MAR 2008	9,965	240	1	30
APR 2008	10,010	80	1	30
MAY 2008	10,606	80	1	30
JUN 2008	10,161	80	1	30
JUL 2008	11,246	0	1	30
AUG 2008	10,688	240	1	30
SEP 2008	11,286	80	1	30
OCT 2008	12,187	80	1	30
NOV 2008	12,299	80	1	30
DEC 2008	12,708	80	1	30
Totals:				
2008	<u>128,828</u>	<u>1,360</u>		

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Lease Name: OLIVER UNIT  
 County, State: SAN JUAN, NM  
 Operator: XTO ENERGY INCORPORATED  
 Field: BASIN  
 Reservoir: FRUITLAND COAL  
 Location: 35 31N 12W SE NW SE

OLIVER UNIT - 1 BASIN 30045305460001





SAN JUAN NM  
OLIVER UNIT 1  
XTO ENERGY INCORPORATED  
ACTIVE

## Production Report

<b>Lease Name:</b>	<b>OLIVER UNIT</b>	<b>Well Number:</b>	<b>1</b>
Lease Number:		Cum Oil:	
Operator Name:	XTO ENERGY INCORPORATED	Cum Gas:	384,253
State:	NEW MEXICO	Cum Water:	8,377
County:	SAN JUAN	First Production Date:	JUN 2004
Field:	BASIN	Last Production Date:	DEC 2008
Sec Twn Rng:	35J 31N 12W	Spot:	SE NW SE
Latitude/Longitude:	36.85381 -108.06367	Lat/Long Source:	TS
Regulatory #:		Completion Date:	AUG 10, 2001
API:	30045305460001	Total Depth:	
Production ID:	2300430453054671629	Upper Perforation:	
Reservoir Name:	FRUITLAND COAL	Lower Perforation:	
Prod Zone:	FRUITLAND COAL	Gas Gravity:	
Prod Zone Code:	604FRLDC	Oil Gravity:	
Basin Name:	SAN JUAN BASIN	Temp Gradient:	
Gas Gatherer:		N Factor:	
Liquid Gatherer:		GOR:	
Status:	ACTIVE		GAS

Annual Production	(5 years)		
Year	Oil BBLs	Gas MCF	Water BBLs

## Beginning

Cum:

2004	11,932	3,955
2005	41,179	2,220
2006	90,024	1,120
2007	123,218	420
2008	117,900	662
Totals:	384,253	8,377

Monthly Production	(Most recent 48 of 55 months)			
Date MO/YR	Oil BBLs	Gas MCF	Water BBLs	Cond Yld STB/MMCF

DEC 2004		1,474	320		
Totals:					
2004		11,932	3,955		
JAN 2005		1,164	360		

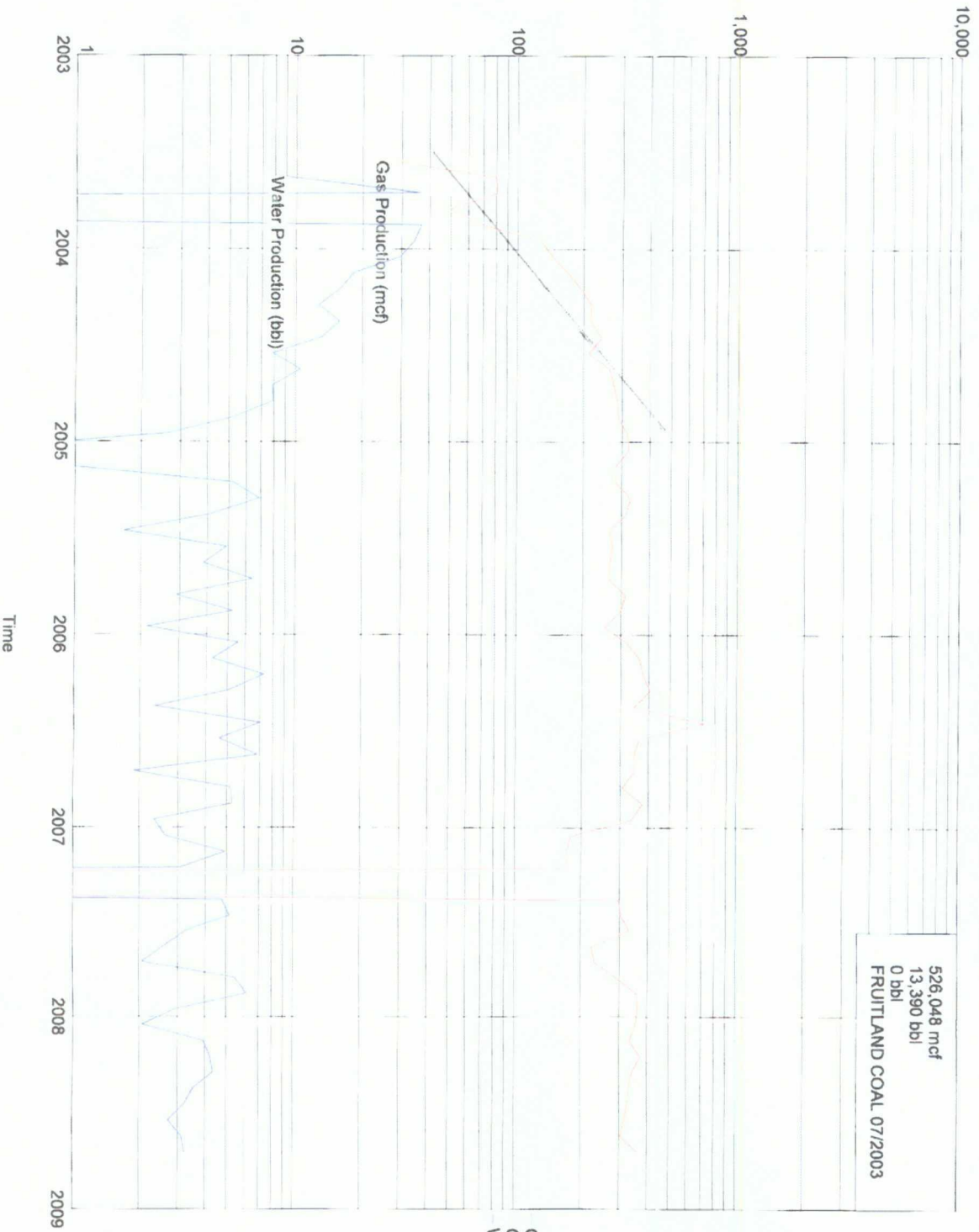
FEB 2005	1,803	280	1	28
MAR 2005	2,829	240	1	31
APR 2005	1,335	0	1	30
MAY 2005	897	240	1	31
JUN 2005	3,086	320	1	30
JUL 2005	4,219	180	1	31
AUG 2005	4,909	160	1	31
SEP 2005	5,098	160	1	30
OCT 2005	5,532	160	1	31
NOV 2005	5,290	40	1	30
DEC 2005	5,017	80	1	31
Totals: 2005	41,179	2,220		
JAN 2006	5,579	160	1	31
FEB 2006	5,440	160	1	28
MAR 2006	6,008	140	1	31
APR 2006	6,415	80	1	30
MAY 2006	6,106	100	1	31
JUN 2006	5,760	120	1	30
JUL 2006	8,446	40	1	31
AUG 2006	9,118	80	1	31
SEP 2006	9,119	160	1	30
OCT 2006	9,666	80	1	31
NOV 2006	9,276		1	30
DEC 2006	9,091		1	31
Totals: 2006	90,024	1,120		
JAN 2007	9,862	80	1	31
FEB 2007	8,997	80	1	28
MAR 2007	10,708	0	1	31
APR 2007	10,702	0	1	30
MAY 2007	10,915	0	1	31
JUN 2007	11,542	80	1	30
JUL 2007	11,059	0	1	31
AUG 2007	9,241	100	1	31
SEP 2007	10,148	0	1	30
OCT 2007	8,787	0	1	31
NOV 2007	10,574	0	1	30
DEC 2007	10,683	80	1	31
Totals: 2007	123,218	420		
JAN 2008	9,773	0	1	31
FEB 2008	10,098	0	1	29
MAR 2008	8,378	0	1	31
APR 2008	7,850	0	1	30
MAY 2008	7,571	63	1	31
JUN 2008	9,934	126	1	30
JUL 2008	9,089	95	1	31
AUG 2008	8,570	0	1	31
SEP 2008	11,563	126	1	30
OCT 2008	11,877	63	1	31
NOV 2008	10,992	63	1	30
DEC 2008	12,205	126	1	31
Totals:				

2008	117,900	662
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Lease Name: MOSELEY  
 County, State: SAN JUAN, NM  
 Operator: BAYLESS ROBERT L PRODUCER LLC  
 Field: BASIN  
 Reservoir: FRUITLAND COAL  
 Location: 2 30N 12W SW NE NW

MOSELEY - 1G BASIN 30045313440000



SAN JUAN NM  
MOSELEY 1G  
BAYLESS ROBERT L PRODUCER LLC  
ACTIVE

## Production Report

<b>Lease Name:</b>	<b>MOSELEY</b>	<b>Well Number:</b>	<b>1G</b>
Lease Number:		Cum Oil:	
Operator Name:	BAYLESS ROBERT L PRODUCE	Cum Gas:	555,842
State:	NEW MEXICO	Cum Water:	13,461 since AUG 2003
County:	SAN JUAN	First Production Date:	JUL 2003
Field:	BASIN	Last Production Date:	DEC 2008
Sec Twn Rng:	2 30N 12W	Spot:	SW NE NW
Latitude/Longitude:	36.84605 -108.07121	Lat/Long Source:	TS
Regulatory #:		Completion Date:	JUL 09, 2003
API:	30045313440000	Total Depth:	
Production ID:	2300430453134471629	Upper Perforation:	
Reservoir Name:	FRUITLAND COAL	Lower Perforation:	
Prod Zone:	FRUITLAND COAL	Gas Gravity:	
Prod Zone Code:	604FRLDC	Oil Gravity:	
Basin Name:	SAN JUAN BASIN	Temp Gradient:	
Gas Gatherer:		N Factor:	
Liquid Gatherer:		GOR:	
Status:	ACTIVE		GAS

Annual Production			(6 years)
Year	Oil BBLs	Gas MCF	Water BBLs

Beginning

Cum:			
2003		13,276	3,556
2004		85,927	4,482
2005		105,248	1,358
2006		140,035	1,757
2007		88,868	1,310
2008		122,488	998
Totals:		555,842	13,461

Monthly Production		(Most recent 48 of 66 months)					
Date MO/YR	Oil BBLs	Gas MCF	Water BBLs	Cond Yld STB/MMCF	% Water	# of Wells	Days on

DEC 2004		9,643	80			1	31
Totals:							
2004		85,927	4,482				

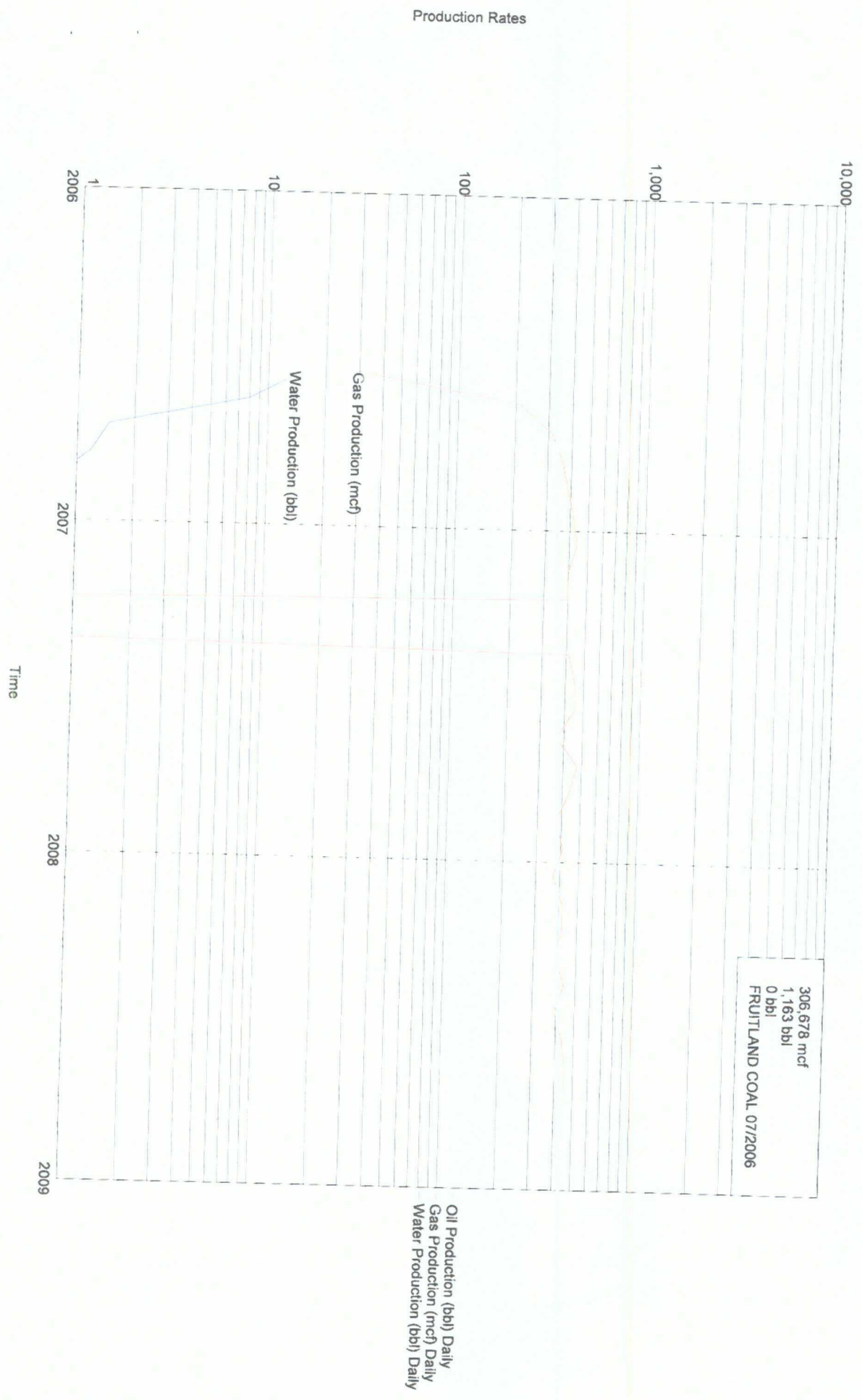
JAN 2005	9,834	10	1	31
FEB 2005	8,540	27	1	28
MAR 2005	8,601	160	1	31
APR 2005	10,010	210	1	30
MAY 2005	9,516	125	1	31
JUN 2005	8,058	51	1	30
JUL 2005	8,305	149	1	30
AUG 2005	8,070	117	1	29
SEP 2005	8,011	196	1	30
OCT 2005	9,545	88	1	31
NOV 2005	9,060	160	1	30
DEC 2005	7,698	65	1	31
Totals:				
2005	105,248	1,358		
JAN 2006	9,713	170	1	31
FEB 2006	11,087	130	1	28
MAR 2006	11,502	222	1	31
APR 2006	12,380	154	1	30
MAY 2006	10,490	71	1	31
JUN 2006	21,777	215	1	30
JUL 2006	11,044	140	1	30
AUG 2006	10,496	209	1	30
SEP 2006	10,522	57	1	30
OCT 2006	9,301	157	1	29
NOV 2006	11,465	161	1	29
DEC 2006	10,258	71	1	30
Totals:				
2006	140,035	1,757		
JAN 2007	5,433	80	1	30
FEB 2007	5,234	150	1	28
MAR 2007	5,279	93	1	31
APR 2007	0	0	0	0
MAY 2007	9,009	145	1	28
JUN 2007	9,241	157	1	30
JUL 2007	10,073	100	1	31
AUG 2007	6,812	79	1	24
SEP 2007	7,034	63	1	29
OCT 2007	8,830	166	1	30
NOV 2007	10,897	188	1	29
DEC 2007	11,026	89	1	31
Totals:				
2007	88,868	1,310		
JAN 2008	10,792	63	1	31
FEB 2008	10,140	120	1	29
MAR 2008	11,355	129	1	31
APR 2008	10,388	133	1	30
MAY 2008	10,126	108	1	31
JUN 2008	9,900	98	1	30
JUL 2008	9,565	83	1	31
AUG 2008	9,260	95	1	27
SEP 2008	11,168	98	1	30
OCT 2008	10,965	0	1	31
NOV 2008	9,852	0	1	29
DEC 2008	8,977	71	1	31

Totals:	<u>          </u>	<u>122,488</u>	<u>998</u>
2008			

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120	121	122	123	124	125	126	127	128	129	130	131	132	133	134	135	136	137	138	139	140	141	142	143	144	145	146	147	148	149	150	151	152	153	154	155	156	157	158	159	160	161	162	163	164	165	166	167	168	169	170	171	172	173	174	175	176	177	178	179	180	181	182	183	184	185	186	187	188	189	190	191	192	193	194	195	196	197	198	199	200	201	202	203	204	205	206	207	208	209	210	211	212	213	214	215	216	217	218	219	220	221	222	223	224	225	226	227	228	229	230	231	232	233	234	235	236	237	238	239	240	241	242	243	244	245	246	247	248	249	250	251	252	253	254	255	256	257	258	259	260	261	262	263	264	265	266	267	268	269	270	271	272	273	274	275	276	277	278	279	280	281	282	283	284	285	286	287	288	289	290	291	292	293	294	295	296	297	298	299	300	301	302	303	304	305	306	307	308	309	310	311	312	313	314	315	316	317	318	319	320	321	322	323	324	325	326	327	328	329	330	331	332	333	334	335	336	337	338	339	340	341	342	343	344	345	346	347	348	349	350	351	352	353	354	355	356	357	358	359	360	361	362	363	364	365	366	367	368	369	370	371	372	373	374	375	376	377	378	379	380	381	382	383	384	385	386	387	388	389	390	391	392	393	394	395	396	397	398	399	400	401	402	403	404	405	406	407	408	409	410	411	412	413	414	415	416	417	418	419	420	421	422	423	424	425	426	427	428	429	430	431	432	433	434	435	436	437	438	439	440	441	442	443	444	445	446	447	448	449	450	451	452	453	454	455	456	457	458	459	460	461	462	463	464	465	466	467	468	469	470	471	472	473	474	475	476	477	478	479	480	481	482	483	484	485	486	487	488	489	490	491	492	493	494	495	496	497	498	499	500	501	502	503	504	505	506	507	508	509	510	511	512	513	514	515	516	517	518	519	520	521	522	523	524	5
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Lease Name: MOSELEY  
 County, State: SAN JUAN, NM  
 Operator: BAYLESS ROBERT L PRODUCER LLC  
 Field: BASIN  
 Reservoir: FRUITLAND COAL  
 Location: 2 30N 12W NE NW SW

MOSELEY - 1R BASIN 30045335970000





SAN JUAN NM  
MOSELEY 1R  
BAYLESS ROBERT L PRODUCER LLC  
ACTIVE

## Production Report

<b>Lease Name:</b>	<b>MOSELEY</b>	<b>Well Number:</b>	<b>1R</b>
Lease Number:		Cum Oil:	
Operator Name:	BAYLESS ROBERT L PRODUCE	Cum Gas:	344,196
State:	NEW MEXICO	Cum Water:	1,179
County:	SAN JUAN	First Production Date:	JUL 2006
Field:	BASIN	Last Production Date:	DEC 2008
Sec Twn Rng:	2L 30N 12W	Spot:	NE NW SW
Latitude/Longitude:	36.84092 -108.07436	Lat/Long Source:	TS
Regulatory #:		Completion Date:	JUL 03, 2006
API:	30045335970000	Total Depth:	2315
Production ID:	2300430453359771629	Upper Perforation:	
Reservoir Name:	FRUITLAND COAL	Lower Perforation:	
Prod Zone:	FRUITLAND COAL	Gas Gravity:	
Prod Zone Code:	604FRLDC	Oil Gravity:	
Basin Name:	SAN JUAN BASIN	Temp Gradient:	
Gas Gatherer:		N Factor:	
Liquid Gatherer:		GOR:	
Status:	ACTIVE		GAS

### Annual Production (3 years)

Year	Oil BBLs	Gas MCF	Water BBLs
------	-------------	------------	---------------

Beginning

Cum:			
2006		52,520	836
2007		140,111	199
2008		151,565	144
Totals:		344,196	1,179

### Monthly Production

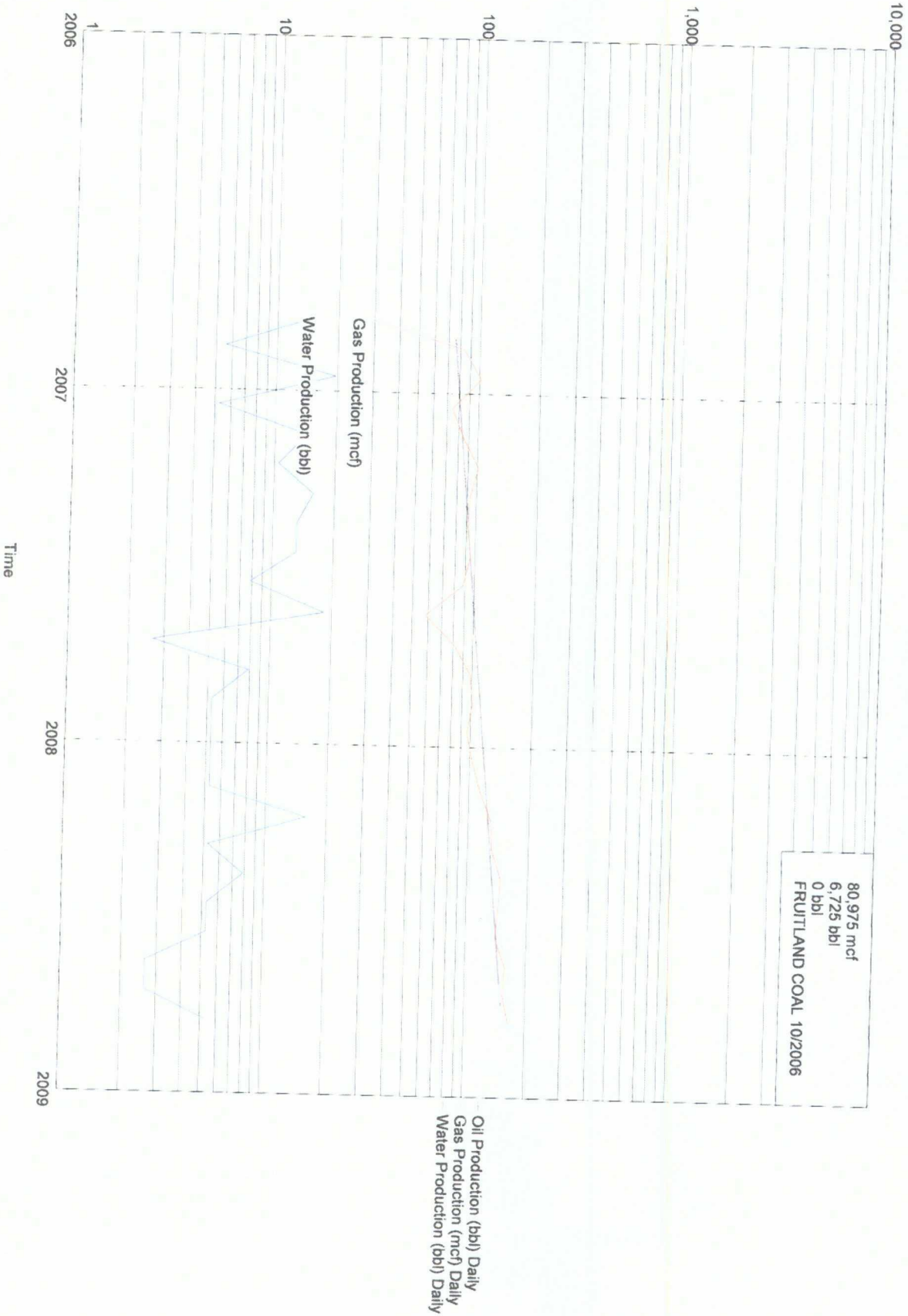
Date MO/YR	Oil BBLs	Gas MCF	Water BBLs	Cond Yld STB/MMCF	% Water	# of Wells	Days on
JUL 2006		995	463			1	14
AUG 2006		6,434	242			1	30
SEP 2006		9,611	45			1	30
OCT 2006		10,956	36			1	30
NOV 2006		11,777	23			1	29
DEC 2006		12,747	27			1	31
Totals:							

2006	52,520	836		
JAN 2007	13,358	30	1	31
FEB 2007	12,107	18	1	28
MAR 2007	12,155	19	1	31
APR 2007	0	0	0	0
MAY 2007	12,595	19	1	30
JUN 2007	13,599	8	1	30
JUL 2007	13,687	20	1	31
AUG 2007	11,177	8	1	25
SEP 2007	14,386	10	1	29
OCT 2007	13,154	27	1	31
NOV 2007	11,404	14	1	29
DEC 2007	12,489	26	1	31
Totals:				
2007	140,111	199		
JAN 2008	11,214	20	1	26
FEB 2008	12,633	13	1	29
MAR 2008	12,640	12	1	30
APR 2008	11,919	13	1	30
MAY 2008	13,217	17	1	30
JUN 2008	11,896	16	1	25
JUL 2008	13,113	10	1	29
AUG 2008	13,684	16	1	31
SEP 2008	13,731	11	1	30
OCT 2008	13,597	0	1	31
NOV 2008	12,357	0	1	29
DEC 2008	11,564	16	1	31
Totals:				
2008	151,565	144		

Lease Name: KELLY  
County, State: SAN JUAN, NM  
Operator: MCKAY OIL & GAS LIMITED LIABILITY CO  
Field: BASIN  
Reservoir: FRUITLAND COAL  
Location: 1 30N 12W NW SE NW

KELLY - 1 BASIN 30045337290000

Production Rates



SAN JUAN NM

KELLY 1

MCKAY OIL &amp; GAS LIMITED LIABILITY CORP

ACTIVE

## Production Report

<b>Lease Name:</b>	<b>KELLY</b>	<b>Well Number:</b>	<b>1</b>
Lease Number:		Cum Oil:	
Operator Name:	MCKAY OIL & GAS LIMITED	Cum Gas:	91,995
State:	NEW MEXICO	Cum Water:	7,045
County:	SAN JUAN	First Production Date:	OCT 2006
Field:	BASIN	Last Production Date:	DEC 2008
Sec Twn Rng:	1F 30N 12W	Spot:	NW SE NW
Latitude/Longitude:	36.84313 -108.05243	Lat/Long Source:	TS
Regulatory #:		Completion Date:	AUG 26, 2006
API:	30045337290000	Total Depth:	2421
Production ID:	2300430453372971629	Upper Perforation:	
Reservoir Name:	FRUITLAND COAL	Lower Perforation:	
Prod Zone:	FRUITLAND COAL	Gas Gravity:	
Prod Zone Code:	604FRLDC	Oil Gravity:	
Basin Name:	SAN JUAN BASIN	Temp Gradient:	
Gas Gatherer:		N Factor:	
Liquid Gatherer:		GOR:	
Status:	ACTIVE		GAS

Annual Production		(3 years)	
Year	Oil BBLS	Gas MCF	Water BBLS

Beginning

Cum:			
2006		6,504	1,245
2007		32,337	3,640
2008		53,154	2,160
Totals:		91,995	7,045

### Monthly Production

Date MO/YR	Oil BBLS	Gas MCF	Water BBLS	Cond Yld STB/MMCF	% Water	# of Wells	Days on
OCT 2006		844	475			1	30
NOV 2006		2,554	170			1	30
DEC 2006		3,106	600			1	30
Totals:							
2006		6,504	1,245				
JAN 2007		2,266	160			1	30

FEB 2007	2,586	440	1	28
MAR 2007	3,088	320	1	30
APR 2007	2,825	480	1	30
MAY 2007	2,786	400	1	30
JUN 2007	2,891	400	1	30
JUL 2007	2,671	240	1	30
AUG 2007	1,770	560	1	30
SEP 2007	2,479	80	1	30
OCT 2007	2,975	240	1	30
NOV 2007	3,078	160	1	30
DEC 2007	2,922	160	1	30
Totals:				
2007	<u>32,337</u>	<u>3,640</u>		

JAN 2008	3,140	160	1	30
FEB 2008	3,447	160	1	29
MAR 2008	3,927	480	1	30
APR 2008	3,996	160	1	30
MAY 2008	4,467	240	1	30
JUN 2008	4,391	160	1	30
JUL 2008	4,253	160	1	30
AUG 2008	4,789	80	1	30
SEP 2008	4,688	80	1	30
OCT 2008	5,036	160	1	30
NOV 2008	5,156	160	1	30
DEC 2008	5,864	160	1	30
Totals:				
2008	<u>53,154</u>	<u>2,160</u>		

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# NM COM M-1A FRUITLAND COAL

**Gas Gravity= 0.676**  
**N2= 0.225 %**  
**CO2= 1.300 %**  
**H2S= 0.000 %**  
**Condensate? n (y/n)**

**Tpc= 377.92 R**  
**Ppc= 671.16 psia**

**Average Temp.= 65 Deg F**  
**TVD = 2285 Ft**

	<b>Press.</b>	
	<b>psig</b>	<b>z</b>
<b>SI Tubing Pressure=</b>	<b>353</b>	0.930
<b>BHP =</b>	<b>375</b>	0.926
<b>Average Tbg Pressure:</b>	<b>353</b>	0.930

## Procedure:

- 1) Input the SITP, Gas Gravity, TVD, Avg Temp, etc
- 2) Based on the calcd BHP, input the average Tbg Press and get the "Final" BHP estimate

Station ID: 35337  
 Station Name: ~~61631326~~ GILBREATH I

Analysis No.: 315617 330015 343664 373322 373323 387244 387320  
 Analysis Source: 35337 35337 35337 35337 35337 35337 35337  
 Lab Identifier: K755 K526 K293 K169 K978 K742 K755  
 Sample From Date: 03/28/03 04/12/04 04/08/05 04/25/06 04/11/07 04/04/08 04/10/08  
 Sample To Date: 03/28/03 04/12/04 04/08/05 04/25/06 04/11/07 04/04/08 04/10/08  
 Analyzed Date: 03/31/03 04/13/04 04/11/05 04/26/06 04/12/07 04/07/08 04/11/08  
 Effective Date: 04/01/03 04/15/04 04/13/05 04/01/07 04/12/07 04/07/08 04/11/08

Components	Number 1 Mol %	Number 2 Mol %	Number 3 Mol %	Number 4 Mol %	Number 5 Mol %	Number 6 Mol %	Number 7 Mol %
Methane	C1 95.0400	93.8760	94.3690	85.5629	84.6369	86.9469	87.3440
Ethane	C2 1.7580	2.1210	1.7320	6.5181	7.0891	5.5311	5.2830
Propane	C3 0.8690	1.0840	0.9170	3.2900	3.6170	2.8890	2.7650
Iso-butane	IC4 0.1910	0.2470	0.2180	0.8000	0.6710	0.6710	0.6440
Normal-butane	NC4 0.3080	0.4150	0.3850	1.2070	1.3170	1.1530	1.1100
Iso-pentane	IC5 0.1420	0.1840	0.1900	0.5030	0.5370	0.5150	0.4970
Normal-pentane	NC5 0.1060	0.1360	0.1510	0.3940	0.3940	0.3840	0.3710
Hexanes	C6 0.3380	0.5550	0.5230	0.7580	0.5570	0.4290	0.4600
Heptanes	C7 0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Octanes	C8 0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Nonanes	C9 0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Decanes	C10 0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Nitrogen	N2 0.2140	0.2030	0.1460	0.2780	0.2620	0.2360	0.2250
Carbon Dioxide	CO2 1.0340	1.1790	1.3690	0.7630	0.7900	1.2450	1.3010
Carbon Monoxide	CO 0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hydrogen Sulfide	H2S 0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Helium	HE 0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Specific Gravity:	0.6040	0.6188	0.6156	0.6935	0.6977	0.6789	0.6761
Ideal Specific Grav:	0.6028	0.6176	0.6144	0.6916	0.6957	0.6771	0.6744
Dry BTU :	1061.3160	1080.9381	1072.0243	1206.7440	1212.8622	1172.4189	1166.9197
Pressure Base:	14.7300	14.7300	14.7300	14.7300	14.7300	14.7300	14.7300
Ideal BTU:	1058.8519	1078.2994	1069.4503	1202.8804	1208.9205	1168.8773	1163.1326
2-Factor:	0.9970	0.9970	0.9970	0.9970	0.9970	0.9970	0.9970
GPM							
Ethane	C2 0.470	0.567	0.463	1.742	1.895	1.478	1.412
Propane	C3 0.239	0.298	0.252	0.906	0.996	0.795	0.761
Iso-butane	IC4 0.062	0.071	0.071	0.237	0.262	0.219	0.211
Normal-butane	NC4 0.097	0.131	0.121	0.381	0.415	0.363	0.350
Iso-pentane	IC5 0.052	0.070	0.070	0.184	0.197	0.188	0.182
Normal-pentane	NC5 0.036	0.049	0.055	0.143	0.143	0.139	0.134
Hexanes	C6 0.147	0.242	0.228	0.331	0.243	0.187	0.201
Heptanes	C7 0.000	0.000	0.000	0.000	0.000	0.000	0.000
Octanes	C8 0.000	0.000	0.000	0.000	0.000	0.000	0.000
Nonanes	C9 0.000	0.000	0.000	0.000	0.000	0.000	0.000
Decanes	C10 0.000	0.000	0.000	0.000	0.000	0.000	0.000



**NM Com M-1A**  
**San Juan County, New Mexico**  
**Current Well Schematic as of 1/30/2009**

API: 30-045-30667  
Legals Sec 36 - T 31N - R 12W  
Field Blanco Mesaverde  
Spud Date 6/22/2001  
  
KB  
KB Elev  
GR Elev 5938'

Geologic Tops:  
Kirtland 748'  
Fruitland 1796'  
Main FC 2167'  
PC 2358'  
Lewis Shale 2516'  
Chacra A 3199'  
Chacra B 3434'  
Cliffhouse 3922'  
Menefee 4035'  
Point Lookout 4685'  
Mancos 5026'

Surface Casing:  
8-5/8", 24#, K-55 set @ 366' in 12-1/4" Hole  
TOC = 0' Circulated (Cemented w/ 240 sks)

Tubing Details:  
2-3/8" 4.7# T&C (4859')  
Seat Nipple (Heavy Duty)  
10' Notched collar

DV @ 3704'

Perfs: 2 spf (242 .41" holes)

Completion: Total (2 stages)

1st Stage

2nd Stage

102296 gals slickwater, 96555# 16/30 brad

4686-4716

4302-4308

4731-4741

4332-4341

4886-4896

4345-4349

4375-4380

4392-4399

4403-4411

4494-4500

4541-4545

4572-4590

4634-4638

PBTD = 5033'

TD = 5072'

Production Casing:  
4-1/2", 11.6# J-55 Set @ 5075' in 7-7/8" Hole  
Cement w/ 697 sks  
Total Cmt in 2 stages 697 sxs  
CBL shows TOC @ 3472'

Prepared by: Jarrod Sparks  
Date: 1/30/2009

Revised by:  
Date: