

DATE IN 06/11/09	SUSPENSE	ENGINEER W. Jones	LOGGED IN 06/11/09	TYPE DHC	APP NO. PKAA 0916247941
---------------------	----------	----------------------	-----------------------	-------------	----------------------------

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



30-045-30556  
NM State Com D4  
001A

Four Star 131999

## 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: May 26, 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)

May 26, 2009

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

RE: Administrative DHC Application, New Mexico State Com DY #1A Well  
API No. 30-045-30556  
UL H, 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 State Com DY #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 State Com DY #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

Lease New Mexico State Com DY 1A H - Sec. 36 - T31N - R12W San Juan  
Well No. Unit Letter-Section-Township-Range County

OGRID No. 131994 Property Code 19441 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 (2224'-2285')		(4285'-4852')
Method of Production (Flowing or Artificial Lift)	Artificial Lift Proposed-Rod Pump		Artificial Lift (plunger) 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)		92#
Oil Gravity or Gas BTU (Degree API or Gas BTU)	1160 BTU (Ideal) - from offset FC well (see attached)		1258 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>increased</i>	Date: Rates: <i>Decline</i>	Date: 1/28/09 Rates: 112 mcf/d <1 BWPD 0 BOPD <i>Subtraction</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 sup sheet)	Oil Gas % %	Oil Gas 100 % % (See proposed Allocation Method attached sup 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 May 26, 2009

TYPE OR PRINT NAME Alan W. Bohling TELEPHONE NO. ( 432 ) 685-7158

E-MAIL ADDRESS ABohling@chevron.com

## **NM COM DY-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 112 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 85 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 DY-1A is producing from the Point Lookout and Menefee portions of the Mesaverde with a bottom-hole pressure of 92#. 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 DY-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 crossflow 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 30-045-30556	<sup>2</sup> Pool Code 71629	<sup>3</sup> Pool Name Basin-Fruitland Coal
<sup>4</sup> Property Code 19441	<sup>5</sup> Property Name New Mexico State Com DY	<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

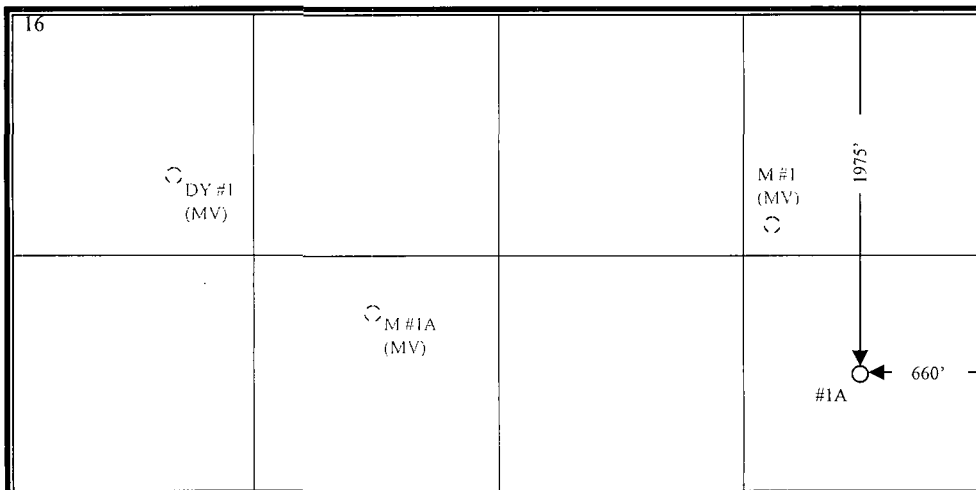

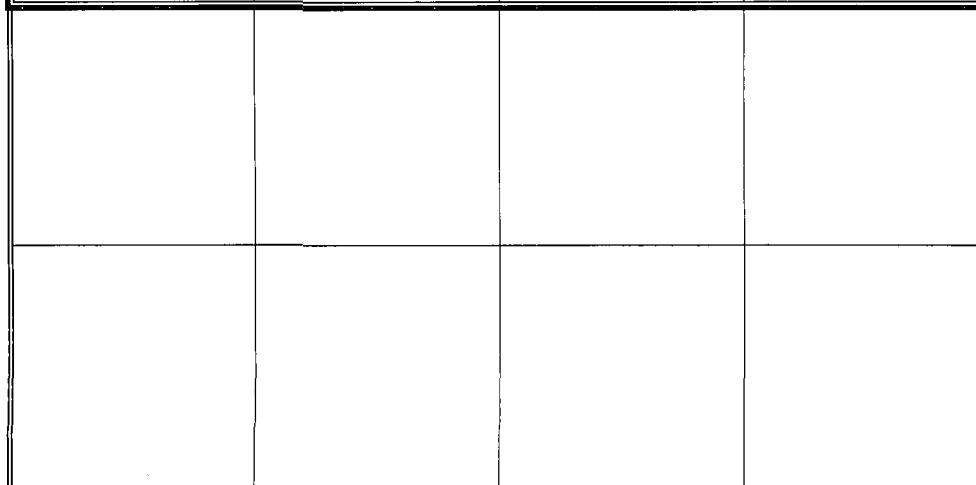
UL or lot no. H	Section 36	Township 31N	Range 12W	Lot Idn	Feet from the 1975	North/South line North	Feet from the 660	East/West line East	County San Juan
--------------------	---------------	-----------------	--------------	---------	-----------------------	---------------------------	----------------------	------------------------	--------------------

<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> 	<p><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>  May 26, 2009 Signature Date Alan W. Bohling - Regulatory Agent Printed Name</p>
	<p><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> 02/02/2001 Date of Survey Signature and Seal of Professional Surveyor:  Neale C. Edwards 6857 Certificate Number</p>

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 30-045-30556	<sup>2</sup> Pool Code 72319	<sup>3</sup> Pool Name Blanco-Mesaverde
<sup>4</sup> Property Code 19441	<sup>5</sup> Property Name New Mexico State Com DY	<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. H	Section 36	Township 31N	Range 12W	Lot Idn	Feet from the 1975	North/South line North	Feet from the 660	East/West line East	County San Juan
--------------------	---------------	-----------------	--------------	---------	-----------------------	---------------------------	----------------------	------------------------	--------------------

<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> DY #1 (MV)				M #1 (MV)	1975'
	M #1A (MV)			#1A	660'

<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, 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.

*Alan W. Bohling* May 26, 2009  
Signature Date  
Alan W. Bohling - Regulatory Agent  
Printed Name

<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.

02/02/2001  
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 00, 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 30-045-30556		*Pool Code 72319	*Pool Name BLANCO MESAVERDE
*Property Code 19441	*Property Name NEW MEXICO COM DY		*Well Number 1A
*GRID No. 131994	*Operator Name FOUR STAR OIL & GAS COMPANY		*Elevation 5892'

10 Surface Location

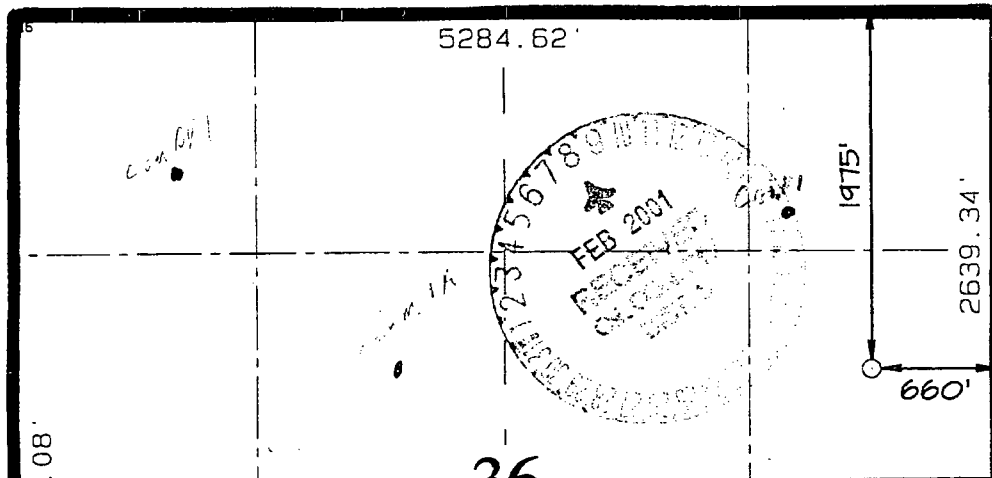
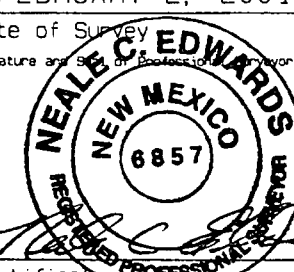
UL or lot no. H	Section 36	Township 31N	Range 12W	Lot Idn	Feet from the 1975	North/South line NORTH	Feet from the 660	East/West line EAST	County SAN JUAN
--------------------	---------------	-----------------	--------------	---------	-----------------------	---------------------------	----------------------	------------------------	--------------------

11 Bottom Hole Location If Different From Surface

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

12 Dedicated Acres 320 1/2	13 Joint or Infill I	14 Consolidation Code	15 Order No.
-------------------------------	-------------------------	-----------------------	--------------

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED  
OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

	<b>17 OPERATOR CERTIFICATION</b> I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.  Signature: <u>Arthur D. Archibeque</u> Printed Name: <u>Arthur D. Archibeque</u> Title: <u>Engineer Assistant</u> Date: <u>2/5/01</u>
	<b>18 SURVEYOR CERTIFICATION</b> 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: <u>FEBRUARY 2, 2001</u> Signature and Seal of Professional Surveyor:  Certificate Number: <u>6857</u>

NM Com DY-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	85.0	0	10	112.0	0	0
2	89.3	0	9	110.9	0	0
3	93.7	0	8	109.8	0	0
4	98.4	0	7	108.7	0	0
5	103.3	0	7	107.6	0	0
6	108.5	0	6	106.5	0	0
7	113.9	0	5	105.4	0	0
8	119.6	0	5	104.4	0	0
9	125.6	0	4	103.3	0	0
10	131.9	0	4	102.3	0	0
11	138.5	0	3	101.3	0	0
12	145.4	0	3	100.3	0	0
13	152.6	0	3	99.3	0	0
14	160.3	0	3	98.3	0	0
15	168.3	0	2	97.3	0	0
16	176.7	0	2	96.3	0	0
17	185.5	0	2	95.4	0	0
18	194.8	0	2	94.4	0	0
19	204.6	0	2	93.5	0	0
20	214.8	0	1	92.5	0	0
21	225.5	0	1	91.6	0	0
22	236.8	0	1	90.7	0	0
23	248.6	0	1	89.8	0	0
24	261.1	0	1	88.9	0	0
25	258.5	0	1	88.0	0	0
26	255.9	0	1	87.1	0	0
27	253.3	0	1	86.2	0	0
28	250.8	0	1	85.4	0	0
29	248.3	0	1	84.5	0	0
30	245.8	0	0	83.7	0	0
31	243.3	0	0	82.8	0	0
32	240.9	0	0	82.0	0	0
33	238.5	0	0	81.2	0	0
34	236.1	0	0	80.4	0	0
35	233.8	0	0	79.6	0	0
36	231.4	0	0	78.8	0	0

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

\*FC – 2 year dewater w/ initial prod of 85 mcf/d and 12% decline after dewatering.



Production Rates

Lease Name: NEW MEXICO STATE COM DY  
County, State: SAN JUAN, NM  
Operator: FOUR STAR OIL & GAS COMPANY  
Field: BLANCO  
Reservoir: MESAVERDE  
Location: 36 31N 12W N2 SE NE

NEW MEXICO STATE COM DY - 1A BLANCO 30045305660000 36 31N 12W N2 SE NE



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

## Detailed Production Report

<b>Lease Name:</b>	<b>NEW MEXICO STATE COM D</b>	<b>Well Number:</b>	<b>1A</b>
Lease Number:		Cum Oil:	330 since APR 2002
Operator Name:	FOUR STAR OIL & GAS COMP	Cum Gas:	443,251
State:	NEW MEXICO	Cum Water:	4,134 since JAN 2003
County:	SAN JUAN	First Production Date:	MAR 2002
Field:	BLANCO	Last Production Date:	DEC 2008
Sec Twn Rng:	36H 31N 12W	Spot:	N2 SE NE
Latitude/Longitude:	36.85744 -108.04264	Lat/Long Source:	TS
Regulatory #:		Completion Date:	MAR 08, 2002
API:	30045305560000	Total Depth:	
Production ID:	2300430453055672319	Upper Perforation:	
Reservoir Name:	MESAVERDE	Lower Perforation:	
Prod Zone:	MESAVERDE	Gas Gravity:	
Prod Zone Code:	604MVRD	Oil Gravity:	
Basin Name:	SAN JUAN BASIN	Temp Gradient:	
Gas Gatherer:		N Factor:	
Liquid Gatherer:		GOR:	
Status:	ACTIVE		GAS

Annual Production	(7 years)		
Year	Oil BBLS	Gas MCF	Water BBLS
Beginning			
Cum:			
2002	35	115,455	
2003	165	80,392	3,081
2004	66	61,079	501
2005	19	55,269	190
2006	10	50,752	143
2007	18	41,577	145
2008	17	38,727	74
Totals:	330	443,251	4,134

Monthly Production							
Date MO/YR	Oil BBLS	Gas MCF	Water BBLS	Cond Yld STB/MMCF	% Water	# of Wells	Days on
MAR 2002	0	15,487				1	23
APR 2002	8	19,598		0.41		1	30
MAY 2002	1	16,161		0.07		1	31

JUN 2002	7	12,629		0.56		1	30
JUL 2002	5	11,499		0.44		1	31
AUG 2002	5	10,684		0.47		1	31
SEP 2002	0	11,026				1	30
OCT 2002	0	9,568				1	31
NOV 2002	0	8,595				1	30
DEC 2002	9	208		43.27		1	31

Totals:

2002

35

115,455

JAN 2003	24	7,924	140	3.03	85.37	1	31
FEB 2003	12	6,239	0	1.93		1	28
MAR 2003	27	6,910	160	3.91	85.56	1	31
APR 2003	22	5,754	170	3.83	88.54	1	30
MAY 2003	17	6,757	140	2.52	89.17	1	31
JUN 2003	13	7,318	340	1.78	96.32	1	30
JUL 2003	3	7,637	241	0.40	98.77	1	31
AUG 2003	3	6,832	60	0.44	95.24	1	31
SEP 2003	2	6,488	660	0.31	99.70	1	30
OCT 2003	32	6,425	120	4.99	78.95	1	31
NOV 2003	0	5,856	410			1	30
DEC 2003	10	6,252	640	1.60	98.46	1	31

Totals:

2003

165

80,392

3,081

JAN 2004	20	6,508	0	3.08		1	31
FEB 2004	19	5,450	0	3.49		1	29
MAR 2004	0	5,633	17			1	31
APR 2004	0	5,320	26			1	30
MAY 2004	3	5,347	0	0.57		1	31
JUN 2004	3	5,077	15	0.60	83.33	1	30
JUL 2004	3	4,924	3	0.61	50.00	1	31
AUG 2004	2	4,653	1	0.43	33.33	1	31
SEP 2004	7	5,126	6	1.37	46.15	1	30
OCT 2004	3	4,221	3	0.72	50.00	1	31
NOV 2004	4	4,500	422	0.89	99.06	1	30
DEC 2004	2	4,320	8	0.47	80.00	1	31

Totals:

2004

66

61,079

501

JAN 2005	10	4,190	11	2.39	52.38	1	31
FEB 2005	0	4,499	13			1	28
MAR 2005	0	4,874	11			1	31
APR 2005	0	6,176	9			1	30
MAY 2005	3	4,571	7	0.66	70.00	1	31
JUN 2005	0	3,674	5			1	30
JUL 2005	0	4,141	15			1	31
AUG 2005	0	4,507	0			1	31
SEP 2005	0	5,086	30			1	30
OCT 2005	3	5,535	30	0.55	90.91	1	31
NOV 2005	0	3,637	29			1	30
DEC 2005	3	4,379	30	0.69	90.91	1	31

Totals:

2005

19

55,269

190

JAN 2006	2	4,083	0	0.49		1	31
FEB 2006	0	2,965	11			1	28

MAR 2006	2	4,677	28	0.43	93.33	1	31
APR 2006	0	4,237	11			1	30
MAY 2006	1	4,235	30	0.24	96.77	1	31
JUN 2006	3	4,204	0	0.72		1	30
JUL 2006	0	4,943	10			1	31
AUG 2006	0	4,509	23			1	31
SEP 2006	0	4,193	0			1	30
OCT 2006	0	4,367	0			1	31
NOV 2006	2	4,566	30	0.44	93.75	1	30
DEC 2006	0	3,773	0			1	31

Totals:							
2006	10	50,752	143				

JAN 2007	4	3,324	0	1.21		1	31
FEB 2007	3	3,219	28	0.94	90.32	1	28
MAR 2007	2	3,437	0	0.59		1	31
APR 2007	1	3,360	21	0.30	95.45	1	30
MAY 2007	0	3,506	12			1	31
JUN 2007	2	3,373	12	0.60	85.71	1	30
JUL 2007	3	3,514	12	0.86	80.00	1	31
AUG 2007	0	3,459	12			1	31
SEP 2007	0	3,405	12			1	30
OCT 2007	1	3,515	12	0.29	92.31	1	31
NOV 2007	0	3,646	12			1	30
DEC 2007	2	3,819	12	0.53	85.71	1	31

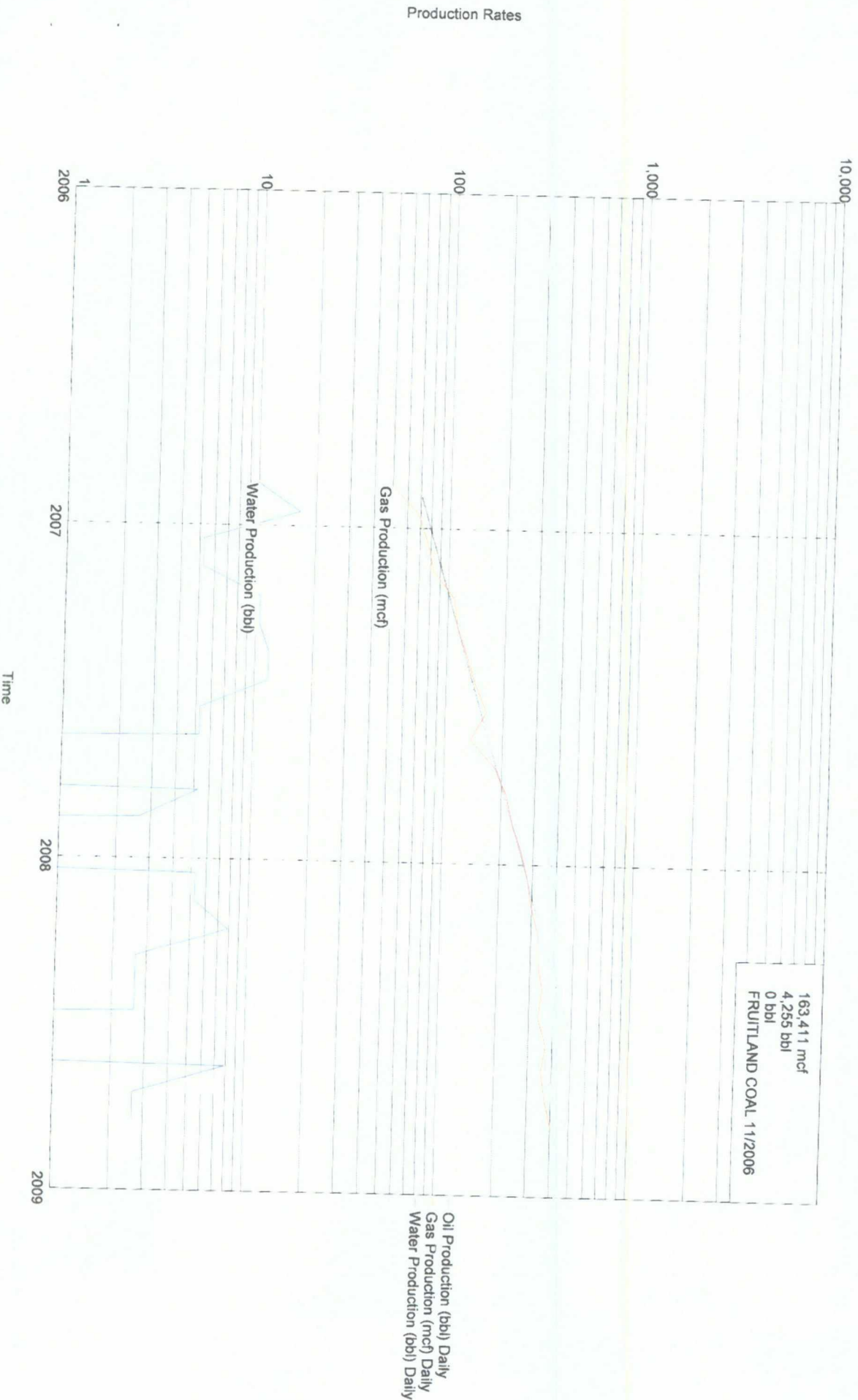
Totals:							
2007	18	41,577	145				

JAN 2008	2	3,417	12	0.59	85.71	1	31
FEB 2008	0	2,982	12			1	29
MAR 2008	3	3,160	12	0.95	80.00	1	31
APR 2008	2	3,543	12	0.57	85.71	1	30
MAY 2008	0	3,347	12			1	31
JUN 2008	0	1,051	11			1	30
JUL 2008	5	3,878	0	1.29		1	31
AUG 2008	2	3,780	1	0.53	33.33	1	31
SEP 2008	0	3,348	1			1	30
OCT 2008	1	3,317	1	0.31	50.00	1	31
NOV 2008	2	3,735		0.54		1	30
DEC 2008		3,169				1	31

Totals:							
2008	17	38,727	74				

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 3004537270000



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

## Production Report

<b>Lease Name:</b> RED RIVER Lease Number: <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 Cum Oil: Cum Gas: 188,418 Cum Water: 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>
--	---

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

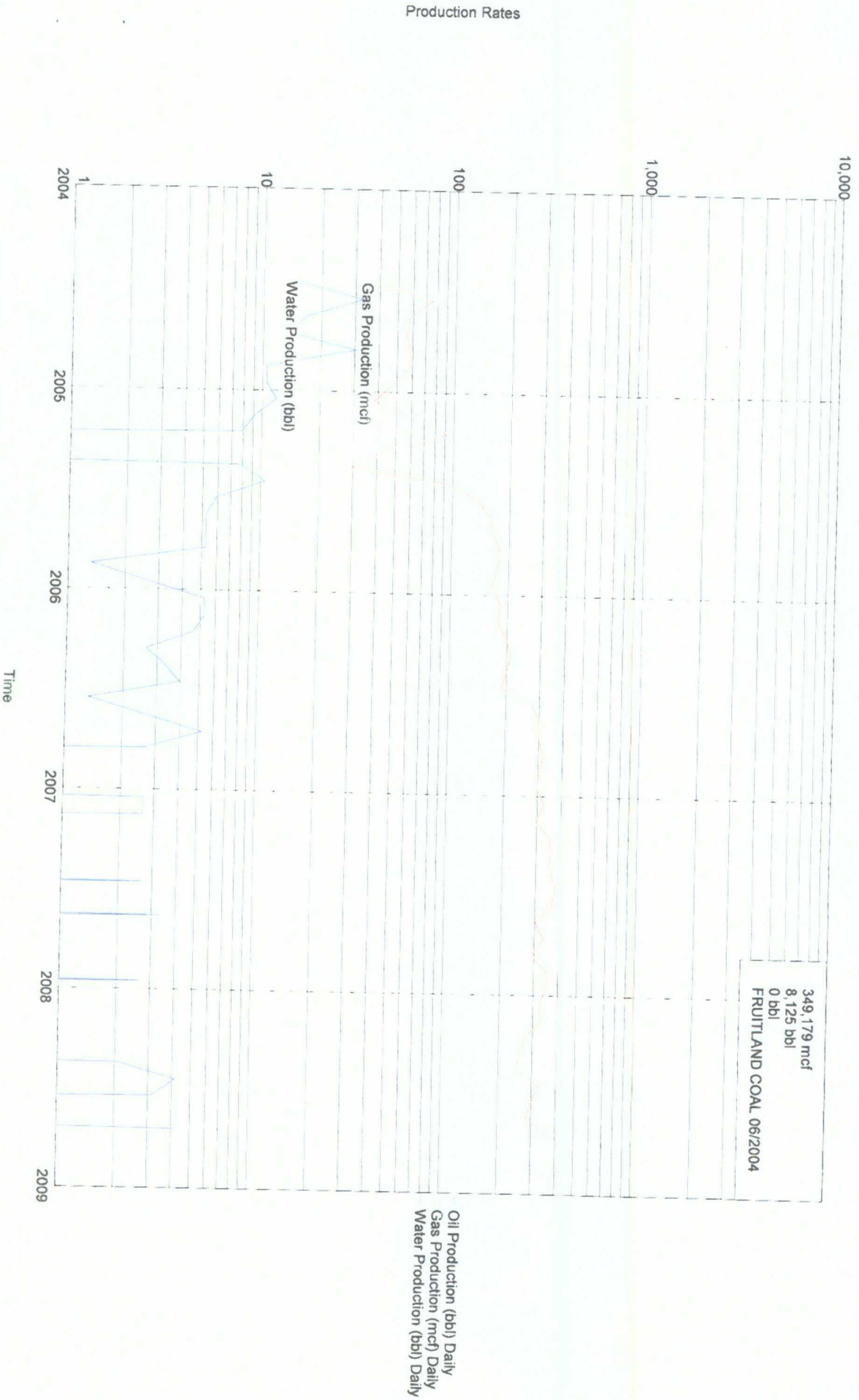
Monthly Production							
Date MO/YR	Oil BBLs	Gas MCF	Water BBLs	Cond Yld STB/MMCF	% Water	# of Wells	Days on
NOV 2006		1,533	310			1	30
DEC 2006		2,088	505			1	30
Totals:							
2006		3,621	815				
JAN 2007		2,342	160			1	30
FEB 2007		2,532	160			1	28

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	55,969	2,240		

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	128,828	1,360		

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	% Water	# of Wells	Days on

DEC 2004	1,474	320		1	31
Totals:					
2004	11,932	3,955			
JAN 2005	1,164	360		1	25

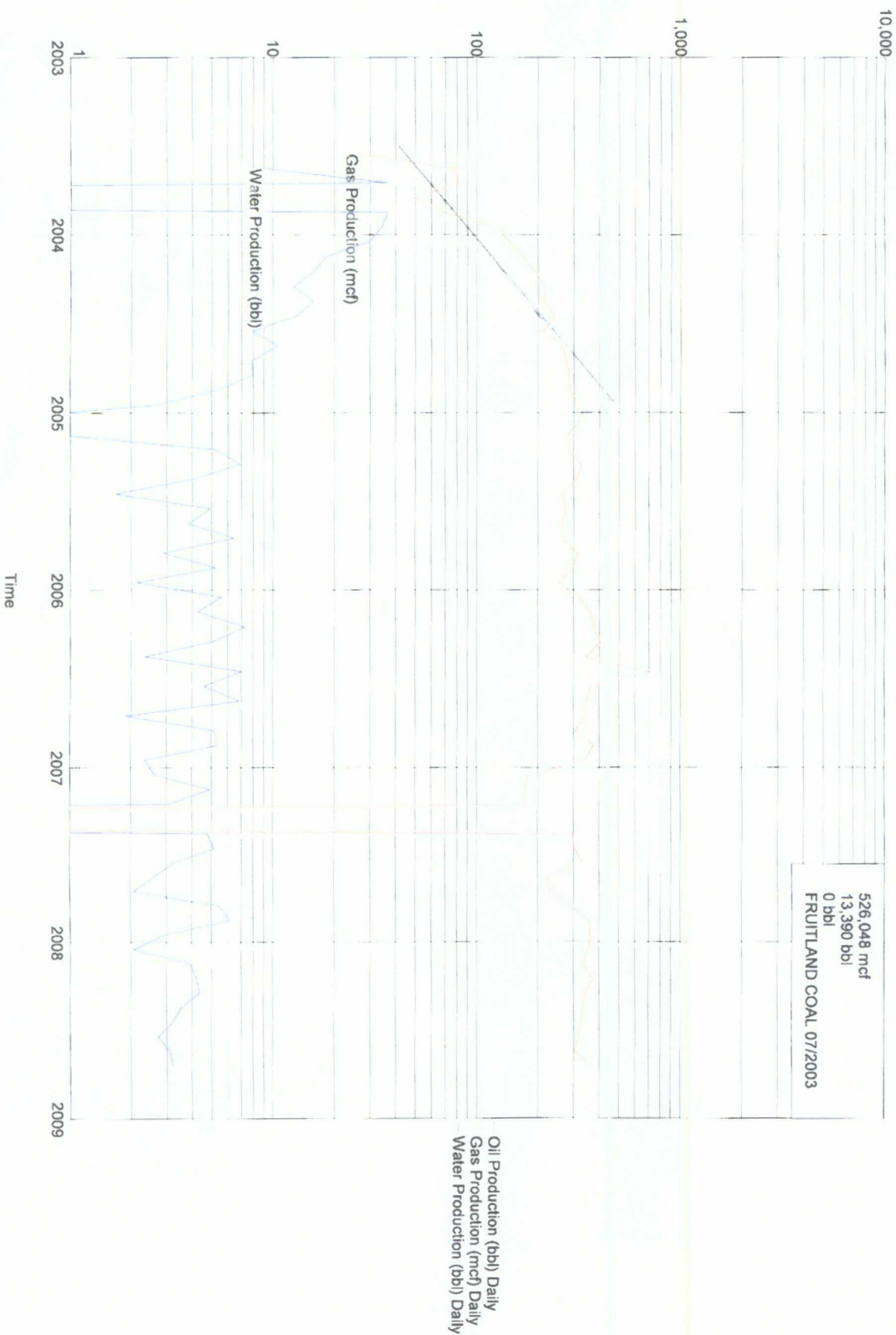
FEB 2005	1,803	280	1	28
MAR 2005	2,829	240	1	31
APR 2005	1,335	0	1	30
MAY 2005	897	240	1	31
JUN 2005	3,086	320	1	30
JUL 2005	4,219	180	1	31
AUG 2005	4,909	160	1	31
SEP 2005	5,098	160	1	30
OCT 2005	5,532	160	1	31
NOV 2005	5,290	40	1	30
DEC 2005	5,017	80	1	31
Totals:				
2005	41,179	2,220		
JAN 2006	5,579	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
------	---------	-----

=====

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	Oil	Gas	Water	Cond Yld	% Water	# of	Days
MO/YR	BBLs	MCF	BBLs	STB/MMCF		Wells	on
DEC 2004		9,643	80			1	31
Totals:							
2004		85,927	4,482				

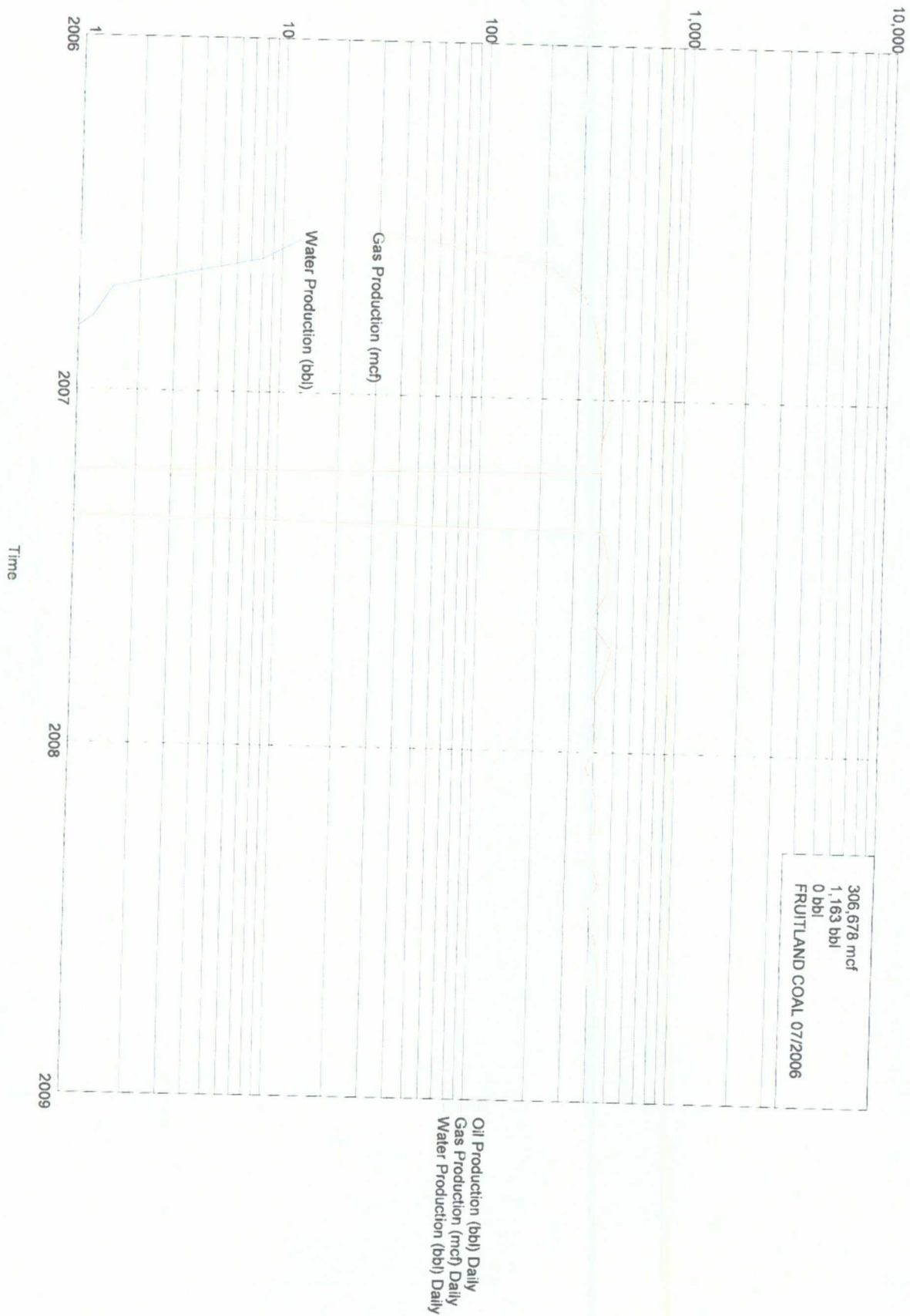
JAN 2005	9,834	10	1	31
FEB 2005	8,540	27	1	28
MAR 2005	8,601	160	1	31
APR 2005	10,010	210	1	30
MAY 2005	9,516	125	1	31
JUN 2005	8,058	51	1	30
JUL 2005	8,305	149	1	30
AUG 2005	8,070	117	1	29
SEP 2005	8,011	196	1	30
OCT 2005	9,545	88	1	31
NOV 2005	9,060	160	1	30
DEC 2005	7,698	65	1	31
Totals:				
2005	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:			
2008		122,488	998

=====

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

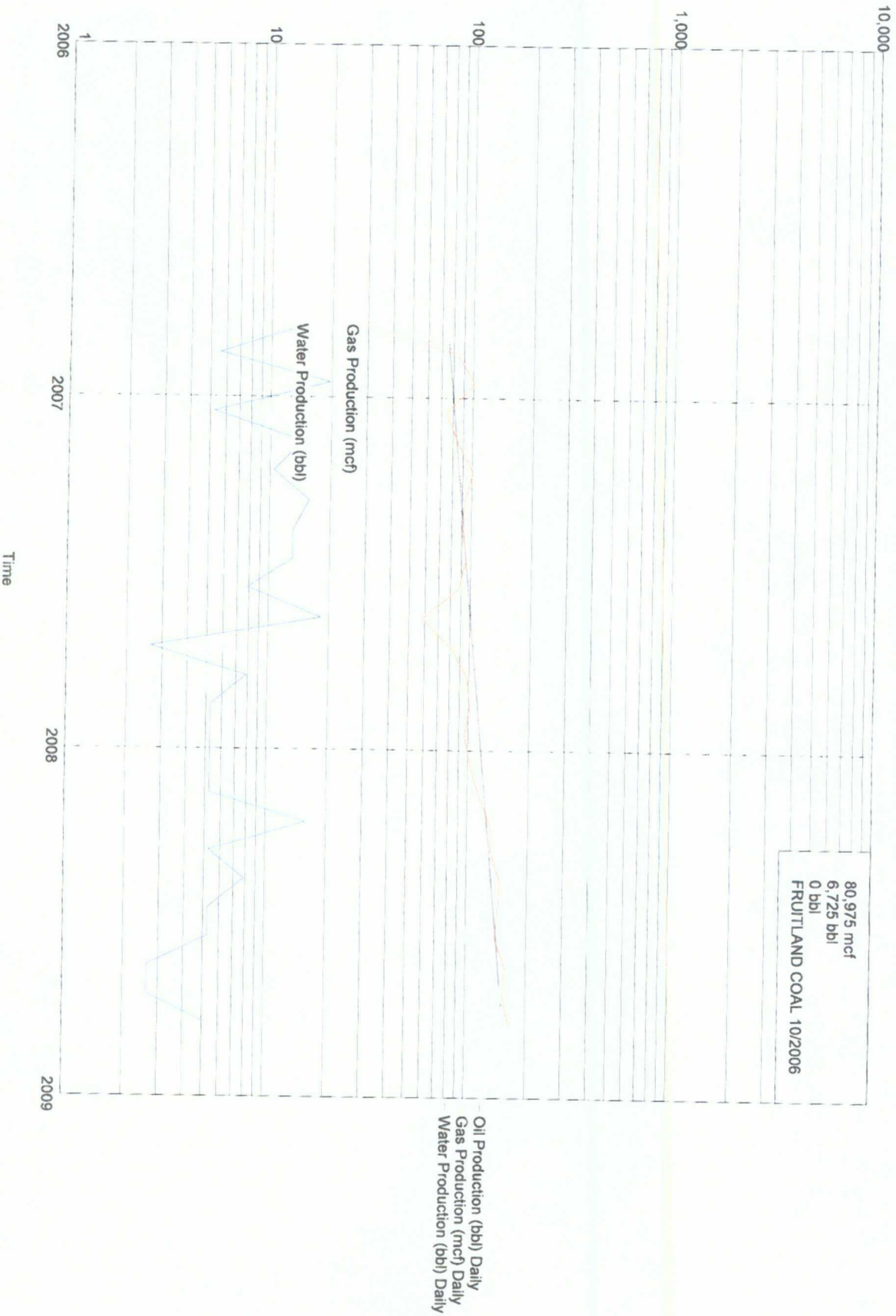
Date MO/YR	Oil BBLS	Gas MCF	Water BBLS	Cond Yld STB/MMCF	% Water	# of Wells	Days on
JUL 2006		995	463			1	14
AUG 2006		6,434	242			1	30
SEP 2006		9,611	45			1	30
OCT 2006		10,956	36			1	30
NOV 2006		11,777	23			1	29
DEC 2006		12,747	27			1	31
Totals:							

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	32,337	3,640		

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	53,154	2,160		

=====

# NM COM DY-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

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

09/08/08 14:13:57

SUMMARY OF MOST RECENT GAS ANALYSIS

PAGE 1

Station ID: 35337  
 Station Name: ~~STATION 1~~ GILBREATH 1

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

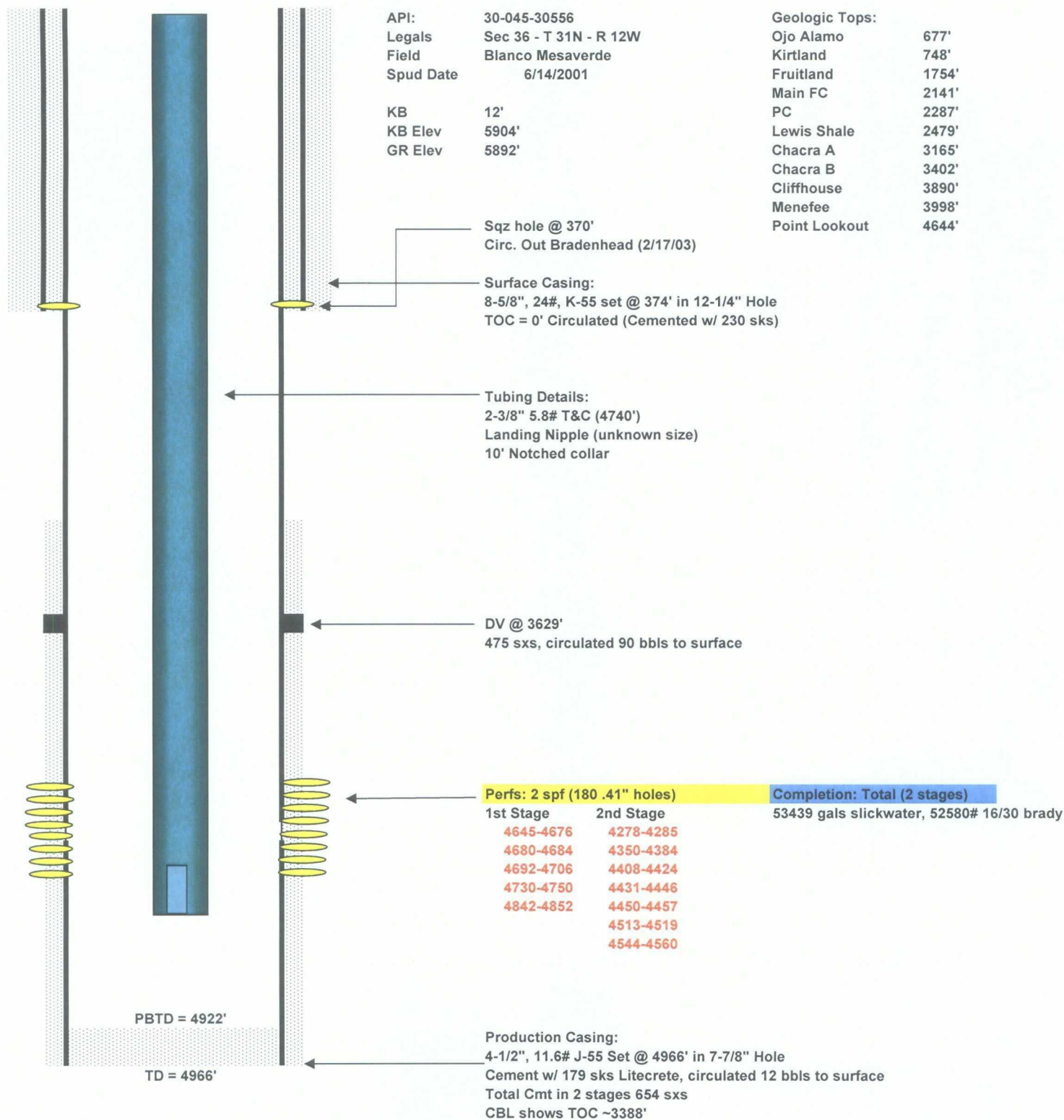
Components	Number 1 Mol %	Number 2 Mol %	Number 3 Mol %	Number 4 Mol %	Number 5 Mol %	Number 6 Mol %	Number 7 Mol %
Methane	C1 95.0400	93.8760	94.3690	85.5629	84.6369	86.9469	87.3440
Ethane	C2 1.7580	2.1210	1.7320	6.5181	7.0891	5.5311	5.2830
Propane	C3 0.8690	1.0840	0.9170	3.2900	3.6170	2.8890	2.7650
Iso-butane	IC4 0.1910	0.2470	0.2180	0.7260	0.8000	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	1163.3326
Z-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	0.081	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	0.067	0.070	0.184	0.197	0.188	0.182
Normal-pentane	NC5 0.038	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 DY-1A**  
**San Juan County, New Mexico**  
**Current Well Schematic as of 1/30/2009**



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

Revised by:  
Date: