

DATE IN 12/24/97	SUSPENSE 1/13/98	ENGINEER DC	LOGGED KV	TYPE DHC
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ABOVE THIS LINE FOR DIVISION USE ONLY

NEW MEXICO OIL CONSERVATION DIVISION

- Engineering Bureau -

ADMINISTRATIVE APPLICATION COVERSHEET

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

Application Acronyms:

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

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

[A] Location - Spacing Unit - Directional Drilling

☐ NSL ☐ NSP ☐ DD ☐ SD

Check One Only for [B] and [C]

[B] Commingling - Storage - Measurement

☒ DHC ☐ CTB ☐ PLC ☐ PC ☐ OLS ☐ OLM

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

☐ WFX ☐ PMX ☐ SWD ☐ IPI ☐ EOR ☐ PPR

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

[A] ☐ Working, Royalty or Overriding Royalty Interest Owners

[B] ☐ Offset Operators, Leaseholders or Surface Owner

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

[D] ☒ Notification and/or Concurrent Approval by BLM or SLO

U.S. Bureau of Land Management - Commissioner of Public Lands, State Land Office

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

[F] ☐ Waivers are Attached

[3] INFORMATION / DATA SUBMITTED IS COMPLETE - Statement of Understanding

I hereby certify that I, or personnel under my supervision, have read and complied with all applicable Rules and Regulations of the Oil Conservation Division. Further, I assert that the attached application for administrative approval is accurate and complete to the best of my knowledge and where applicable, verify that all interest (WI, RI, ORRI) is common. I understand that any omission of data, information or notification is cause to have the application package returned with no action taken.

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

Peggy Bradfield

Print or Type Name

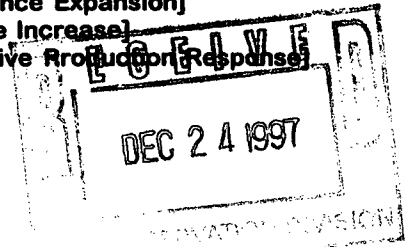
Signature

Regulatory/Compliance Administrator

Title

Date

1788



12/27/97

DISTRICT I

P.O. Box 1980, Hobbs, NM 88241-1980

DISTRICT II

811 South First St., Artesia, NM 88210-2835

DISTRICT III

1000 Rio Brazos Rd, Aztec, NM 87410-1693

State of New Mexico
Energy, Minerals and Natural Resources Department

OIL CONSERVATION DIVISION

2040 S. Pacheco
Santa Fe, New Mexico 87505-6429Form C-107-A
New 3-12-96

APPROVAL PROCESS :

☒ Administrative
☐ Hearing

EXISTING WELLBORE

☒ YES ☐ NO

APPLICATION FOR DOWNHOLE COMMINGLING

Burlington Resources Oil and Gas

Operator	Address		
Johnston A Com G	#17M	I-36-26N-06W	Rio Arriba
Lease	Well No.	Unit Ltr. - Sec - Twp - Rge	County
Spacing Unit Lease Types: (check 1 or more)			
OGRID NO. 14538	Property Code 7207	API NO. 30-039-25560	Federal <input type="checkbox"/> , State <input checked="" type="checkbox"/> , Fee <input type="checkbox"/>

The following facts are submitted in support of downhole commingling:	Upper Zone	Intermediate Zone	Lower Zone
1. Pool Name and Pool Code	Blanco Mesa Verde 72319		Basin Dakota 71599
2. Top and Bottom of Pay Section (Perforations)	4869'-5152'		6828'-7038'
3. Type of production (Oil or Gas)	Gas		Gas
4. Method of Production (Flowing or Artificial Lift)	Flowing		Flowing
5. Bottomhole Pressure	(Current) a. 680 psi (see attachment)		a. 405 psi (see attachment)
Oil Zones - Artificial Lift: Estimated Current	(Original) b. 1044 psi (see attachment)		b. 1299 psi (see attachment)
Gas & Oil - Flowing: Measured Current			
All Gas Zones: Estimated or Measured Original			
6. Oil Gravity ($^{\circ}$ API) or Gas BTU Content	BTU 1236		BTU 1190
7. Producing or Shut-In?	Producing		Producing
Production Marginal? (yes or no)	No		Yes
* If Shut-In and oil/gas/water rates of last production	Date: N/A Rates:		Date: N/A Rates:
Note: For new zones with no production history, applicant shall be required to attach production estimates and supporting data			
* If Producing, give data and oil/gas/water of recent test (within 60 days)	Date: 11/97 Rates: 182 mcf/d 3.1 bopd		Date: 11/97 Rates: 60 mcf/d 0.0 bopd
8. Fixed Percentage Allocation Formula - % for each zone (total of %'s to equal 100%)	Will be supplied upon completion.		Will be supplied upon completion.

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

10. Are all working, overriding, and royalty interests identical in all commingled zones? ☒ Yes ☐ No
If not, have all working, overriding, and royalty interests been notified by certified mail? ☐ Yes ☐ No
Have all offset operators been given written notice of the proposed downhole commingling? ☒ Yes ☐ No11. Will cross-flow occur? ☒ Yes ☐ No If yes, are fluids compatible, will the formations not be damaged, will any cross-flowed production be recovered, and will the allocation formula be reliable. ☐ Yes ☐ No (If No, attach explanation)12. Are all produced fluids from all commingled zones compatible with each other? ☒ Yes ☐ No13. Will the value of production be decreased by commingling? ☐ Yes ☒ No (If Yes, attach explanation)14. If this well is on, or communitized with, state or federal lands, either the Commissioner of Public Lands or the United States Bureau of Land Management has been notified in writing of this application. ☒ Yes ☐ No



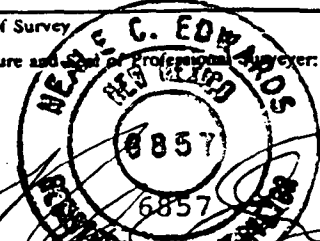
15. NMOCD Reference Cases for Rule 303(D) Exceptions: ORDER NO(S). _____

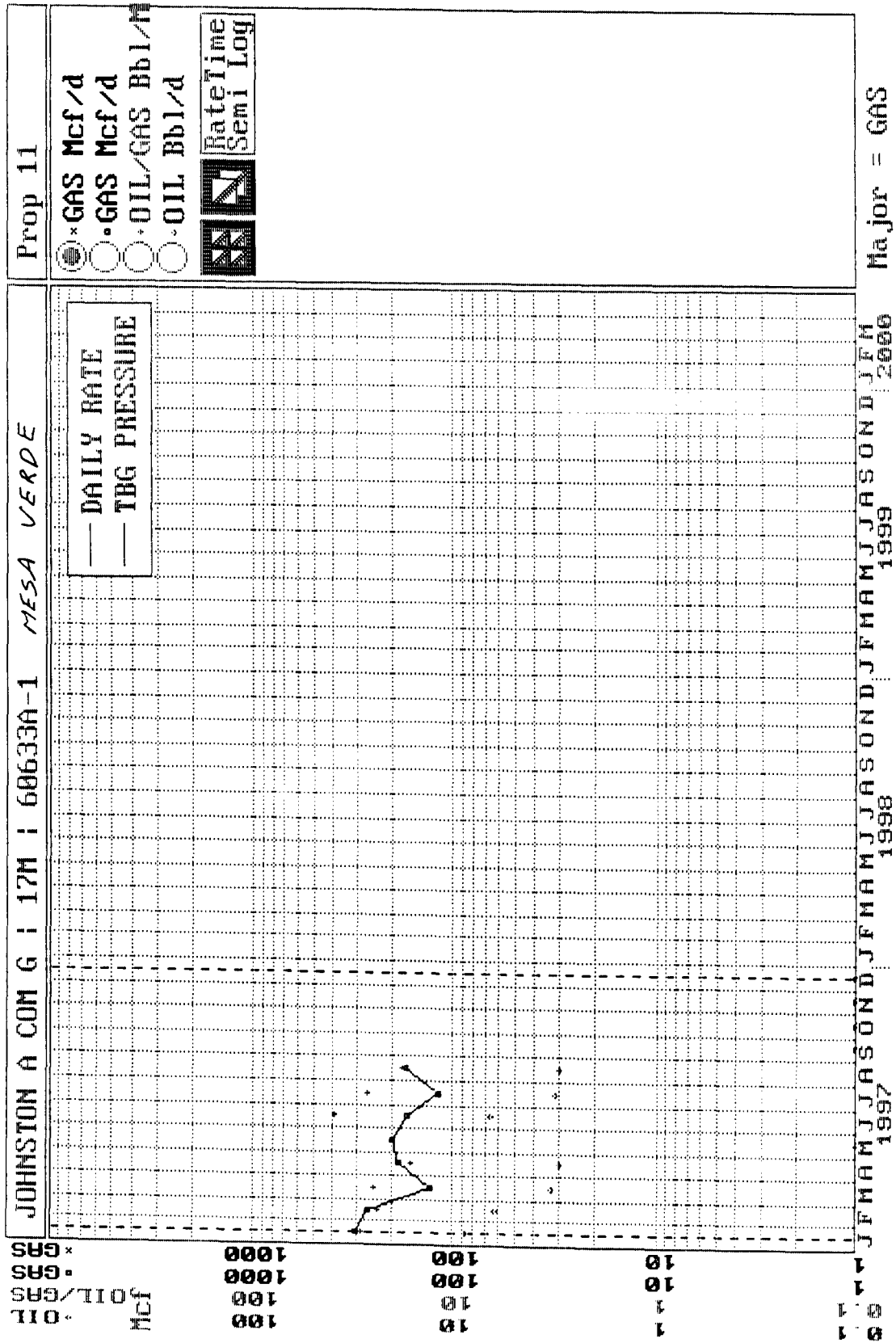
16. ATTACHMENTS:

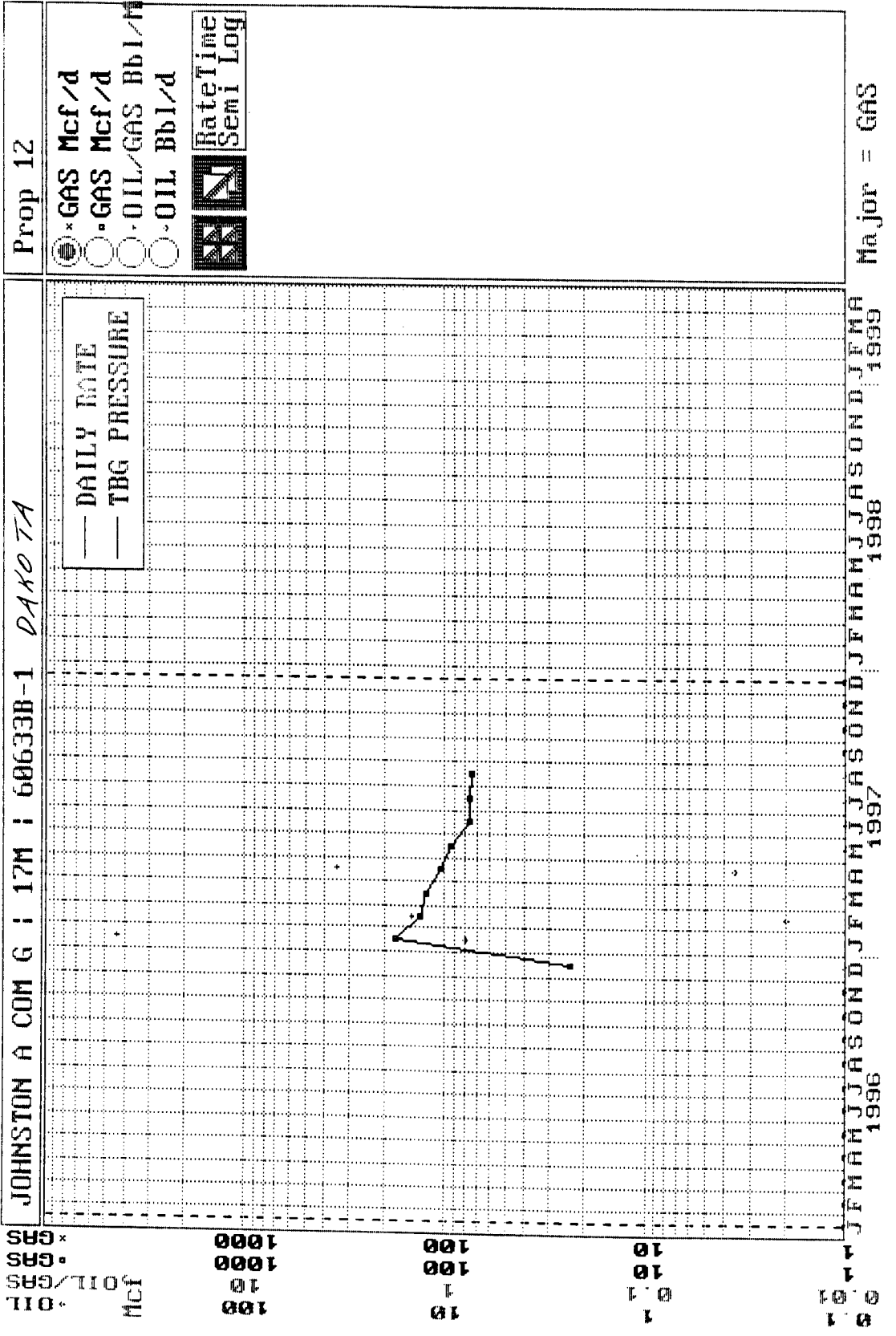
- * C-102 for each zone to be commingled showing its spacing unit and acreage dedication.
- * Production curve for each zone for at least one year. (If not available, attach explanation.)
- * For zones with no production history, estimated production rates and supporting data.
- * Data to support allocation method or formula.
- * Notification list of all offset operators.
- * Notification list of working, overriding, and royalty interests for uncommon interest cases.
- * Any additional statements, data, or documents required to support commingling.

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

SIGNATURE Kevin L. Midkiff TITLE Operations Engineer DATE 12-16-97TYPE OR PRINT NAME Kevin Midkiff TELEPHONE NO. (505) 326-9700

<div>16</div>	<div>5309.04'</div> <div>E-291-49</div>		<div>17 OPERATOR CERTIFICATION</div> <div>I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief</div> <div></div> <div>Signature</div> <div>Peggy Bradfield</div> <div>Printed Name</div> <div>Regulatory Administrator</div> <div>Title</div> <div>2-23-96</div> <div>Date</div>
<div>5339.40'</div>	<div>36</div>		
<div>5339.40'</div>	<div>NM E-291-49</div> <div>5300.46'</div>	<div>5281.98'</div> <div>1115'</div> <div>1595'</div>	<div>18 SURVEYOR CERTIFICATION</div> <div>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.</div> <div>1-30-96</div> <div>Date of Survey</div> <div></div> <div>Signature and Seal of Professional Surveyor</div> <div></div> <div>Certificate Number</div>





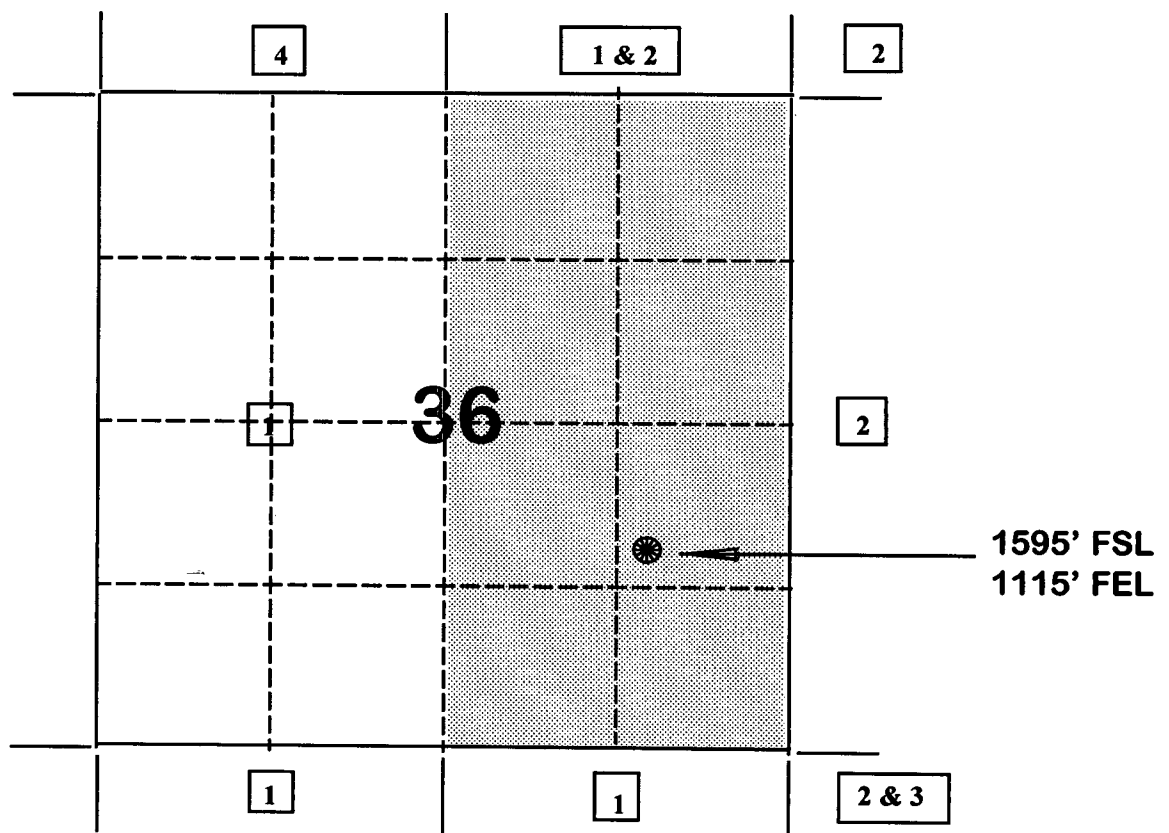
Major = GAS

BURLINGTON RESOURCES OIL & GAS COMPANY

**Johnston A Com G #17M
Offset Operator \ Owner Plat**

Mesaverde / Dakota Formations Commingle Well

Township 26 North, Range 6 West



- 1) Burlington Resources
- 2) Amoco Production Company
c/o Bruce Zimney
P.O. Box 800
Denver, CO 80201
- 3) Conoco Inc.
10 Desta Drive Ste. 100W
Midland, Texas 79705-4500

- 4) Caulkins Oil
1600 Broadway Suite 2100
Denver, CO 80202

FARMINGTON

1997 MONTHLY PRODUCTION FOR 34732A

PHS030M1

JOHNSTON A COM G 18M

BLANCO MESAVERDE (PRORATED GAS FIELD

MESAVERDE ZONE

DAYS =====					OIL =====			===== GAS =====						
MO	T	S	ON	PC	PROD	GRV	PC	PROD	ON	BTU	PRESS	WATER	PROD	C
1	2	F	23	02	263	53.9	01	23815	23	1079	15.025			
2	2	F	28	02	107		01	28495	28	1079	15.025			
3	2	F	31	02	146	61.1	01	29823	31	1079	15.025			
4	2	F	30	02	133	62.0	01	26977	30	1079	15.025			
5	2	F	31	02	100	62.1	01	25949	31	1079	15.025			
6	2	F	30	02	84		01	23441	30	1079	15.025			
7	2	F	25	02	75		01	18707	25	1079	15.025			
8	2	F	31	02	92	61.6	01	21431	31	1079	15.025			
9	2	F	30	02	83		01	19338	30	1079	15.025			
10														
11														
12														

PF6 - RETURNS TO ANNUAL DISPLAY

PF3 - TRANSFER TO UPDATE

PF10 - HELP INFORMATION

PF9 - DISPLAY MONTHLY INJECTION

00/00/00 00:00:00:0

PRS 11/05/97

FARMINGTON

1997 MONTHLY PRODUCTION FOR 60633B

PHS030M1

JOHNSTON A COM G 17M

BASIN DAKOTA (PRORATED GAS) FIELD

DAKOTA ZONE

DAYS =====				OIL =====		=====		GAS =====						
MO	T	S	ON	PC	PROD	GRV	PC	PROD	ON	BTU	PRESS	WATER	PROD	C
1	2	F	31	02	242	46.3	01	5559	31	1079	15.025			
2	2	F	28	02	6		01	4138	28	1079	15.025			
3	2	F	31	02			01	3843	31	1079	15.025			
4	2	F	30	02	11		01	3265	30	1079	15.025			
5	2	F	31	02			01	2926	31	1079	15.025			
6	2	F	30	02			01	2366	30	1079	15.025			
7	2	F	26	02			01	2398	26	1079	15.025			
8	2	F	31	02			01	2284	31	1079	15.025			
9	2	F	30	02			01	2104	30	1079	15.025			

10

11

12

PF6 - RETURNS TO ANNUAL DISPLAY

PF3 - TRANSFER TO UPDATE

PF10 - HELP INFORMATION

PF9 - DISPLAY MONTHLY INJECTION

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PRS 11/05/97

**Johnston A Com G No. 17M
Pressure Data**

	Date	Mesa Verde Surface (PSIA)	Dakota Surface (PSIA)
Initial	Nov-96	901	1072*
Current	Nov-97	592	342

* Note: Dakota Initial pressure from
Johnston A Com G No. 18M
(Offset in the same section at approximately the same time)

**FLOWING AND STATIC BHP
CULLENDER AND SMITH METHOD**

VERSION 1.0 3/13/94

GAS GRAVITY	0.73
COND. OR MISC. (C/M)	C
%N2	1.66
%CO2	0.31
%H2S	0
DIAMETER (IN)	4.9
DEPTH (FT)	5011
SURFACE TEMPERATURE (DEG F)	60
BOTTOMHOLE TEMPERATURE (DEG F)	134
FLOWRATE (MCFPD)	0
SURFACE PRESSURE (PSIA)	901
BOTTOMHOLE PRESSURE (PSIA)	1044.0

JOHNSTON A COM G #17M

MESA VERDE - (ORIGINAL)

**FLOWING AND STATIC BHP
CULLENDER AND SMITH METHOD**

VERSION 1.0 3/13/94

GAS GRAVITY	0.73
COND. OR MISC. (C/M)	C
%N2	1.66
%CO2	0.31
%H2S	0
DIAMETER (IN)	4.9
DEPTH (FT)	5011
SURFACE TEMPERATURE (DEG F)	60
BOTTOMHOLE TEMPERATURE (DEG F)	134
FLOWRATE (MCFPD)	0
SURFACE PRESSURE (PSIA)	592
BOTTOMHOLE PRESSURE (PSIA)	679.8

JOHNSTON A COM G #17M MESA VERDE - (CURRENT)

**FLOWING AND STATIC BHP
CULLENDER AND SMITH METHOD**

VERSION 1.0 3/13/94

GAS GRAVITY	0.7
COND. OR MISC. (C/M)	C
%N2	0.96
%CO2	0.51
%H2S	0
DIAMETER (IN)	1.4
DEPTH (FT)	6933
SURFACE TEMPERATURE (DEG F)	60
BOTTOMHOLE TEMPERATURE (DEG F)	162
FLOWRATE (MCFPD)	0
SURFACE PRESSURE (PSIA)	1072
BOTTOMHOLE PRESSURE (PSIA)	1298.6

JOHNSTON A COM G #17M DAKOTA - (ORIGINAL)

**FLOWING AND STATIC BHP
CULLENDER AND SMITH METHOD**

VERSION 1.0 3/13/94

GAS GRAVITY	0.7
COND. OR MISC. (C/M)	C
%N2	0.96
%CO2	0.51
%H2S	0
DIAMETER (IN)	1.4
DEPTH (FT)	6933
SURFACE TEMPERATURE (DEG F)	60
BOTTOMHOLE TEMPERATURE (DEG F)	162
FLOWRATE (MCFPD)	0
SURFACE PRESSURE (PSIA)	342
BOTTOMHOLE PRESSURE (PSIA)	405.1

GRENIER A #3 DAKOTA - (CURRENT)

