

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 WELLS

YES ☒ NO ☐

APPLICATION FOR DOWNHOLE COMMINGLING

Burlington Resources Oil & Gas Company

PO Box 4289, Farmington, NM 87499

Operator

Address

JOHNSTON A

13M

P 36-27N-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 7200

API NO. 30-039-26086

Federal ☒

State

(and/or) Fee

The following facts are submitted in support of downhole commingling:	Upper Zone	Intermediate Zone	Lower Zone
1. Pool Name and Pool Code	Blanco Mesaverde - 72319	Gallup	Basin Dakota - 71599
2. Top and Bottom of Pay Section (Perforations)	will be supplied upon completion	will be supplied upon completion	will be supplied upon completion
3. Type of production (Oil or Gas)	gas	Gas	gas
4. Method of Production (Flowing or Artificial Lift)	flowing	Flowing	flowing
5. Bottomhole Pressure Oil Zones - Artificial Lift: Estimated Current Gas & Oil - Flowing: Measured Current All Gas Zones: Estimated or Measured Original	(Current) a. 463 psi (see attachment) (Original) b. 1242 psi (see attachment)	(Current) a. 809 psi (see attachment) (Original) b. 1303 psi (see attachment)	a. 1020 psi (see attachment) b. 3220 psi (see attachment)
6. Oil Gravity (API) or Gas BTU Content	BTU 1167	BTU 1191	BTU 1090
7. Producing or Shut-In?	shut in	shut in	shut in
Production Marginal? (yes or no)	no	no	yes
* If Shut-In and oil/gas/water rates of last production Note: For new zones with no production history, applicant shall be required to attach production estimates and supporting data	Date: n/a Rates:	Date: Rates:	Date: n/a Rates:
* If Producing, give data and oil/gas/water of recent test (within 60 days)	Date: n/a Rates:	Date: Rates:	Date: n/a Rates:
8. Fixed Percentage Allocation Formula - % for each zone (total of %'s to equal 100%)	Oil: % Gas: % will be supplied upon completion	Oil: % Gas: % will be supplied upon completion	Oil: % Gas: % will be supplied upon completion

9. If allocation formula is based upon something other than current or past production, or is based upon some other method, submit attachments with supporting data and/or explaining method and providing rate projections or other required data.
10. Are all working, overriding, and royalty interests identical in all commingled zones? ☐ 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 ☐ No
11. 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 ☐ No
13. 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). _____ attached
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



TITLE: Production Engineer

DATE: 06/14/99

TYPE OR PRINT NAME: Craig McCracken

TELEPHONE NO. (505) 326-9700

District I
PO Box 1930, Hobbs, NM 88241-1980

State of New Mexico
Energy, Minerals & Natural Resources Department

Form C-102
Revised February 21, 1994

District II
PO Drawer DD, Artesia, NM 88211-0719

OIL CONSERVATION DIVISION
PO Box 2088
Santa Fe, NM 87504-2088

Instructions on back
Submit to Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 Copies

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

District IV
PO Box 2038, Santa Fe, NM 87504-2088

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

*API Number	*Pool Code	*Pool Name
30-039-26086	72319/71599	Basin Dakota Blanco Mesaverde/WC;27N6W360 Gallup/
*Property Code	*Property Name	*Well Number
7200	JOHNSTON A	13M
*GRID No.	*Operator Name	*Elevation
14538	BURLINGTON RESOURCES OIL & GAS COMPANY	6550'

¹⁰ Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
0	36	27N	6W		950	SOUTH	1670	EAST	RIO ARriba

¹¹ Bottom Hole Location If Different From Surface

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

¹² Dedicated Acres	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.
MV-E/320; Gal-160 DK-E/320;			

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

¹⁶	5276.70'	¹⁷ OPERATOR CERTIFICATION
		I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief
		Signature
		Peggy Bradfield
		Printed Name
		Regulatory Administrator
		Title
		Date
		¹⁸ SURVEYOR CERTIFICATION
		I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision and that the same is true and correct to the best of my belief.
		NOVEMBER 19, 1998
		Date of Survey
		Signature and Seal of Professional Surveyor
		NEALE C. EDWARDS
		NEW MEXICO
		6857
		RECEIVED
		Certification Number

5342.04'

2629.44'

36

ST E-290

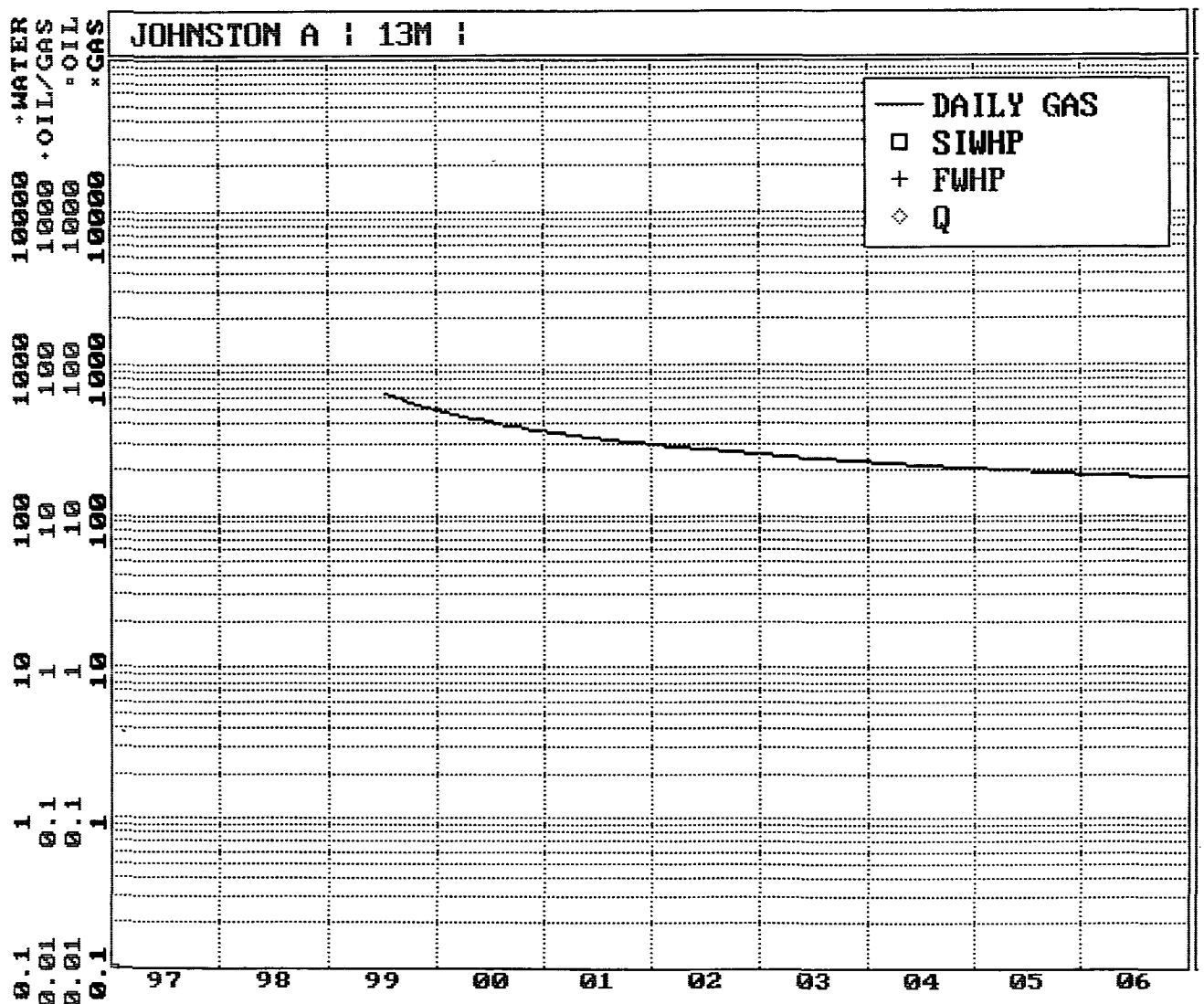
1670'

150'

5279.34'

2671.02'

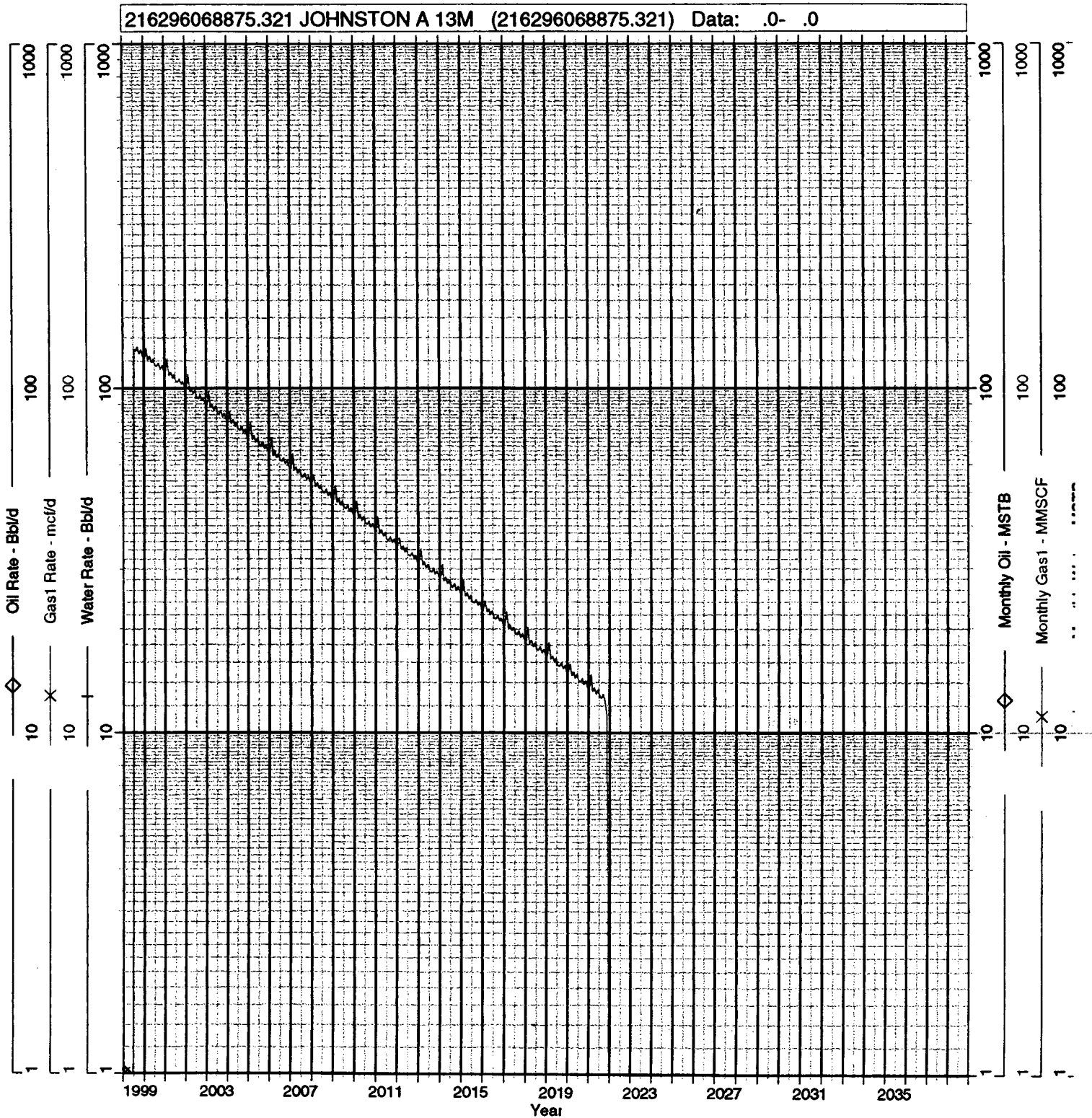
Johnston A #13M
Expected Production
Dakota Formation



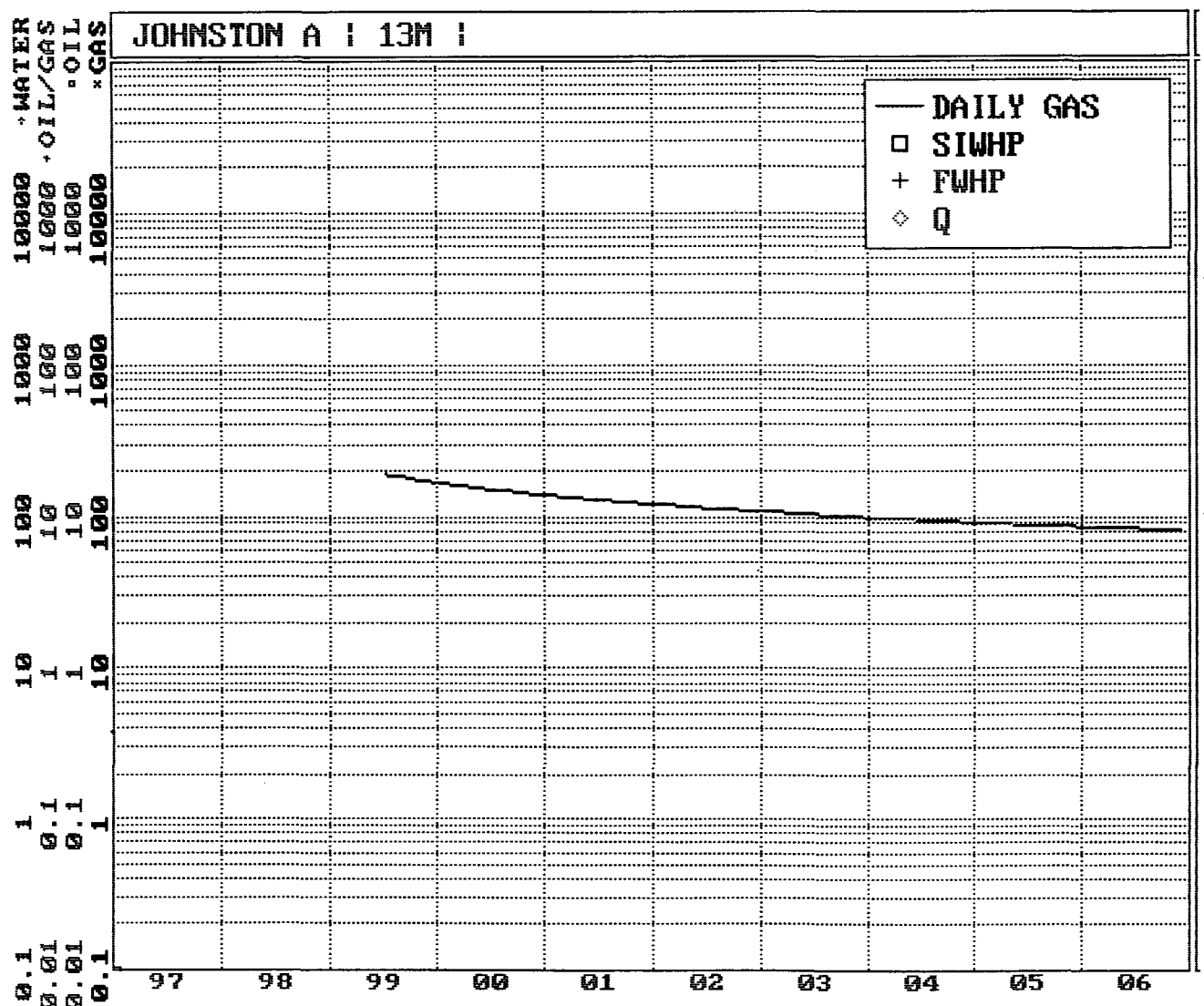
Johnston A #13M

Expected Production Curve

Gallup Formation



Johnston A #13M
 Expected Production
 Mesaverde Formation



Page No.: 1
Print Time: Mon May 24 12:18:21 1999
Property ID: 1075
Property Name: JOHNSTON A COM E | 12 | 50818A-1
Table Name: K:\ARIES\RR99PDP\TEST.DBF

--DATE-- ---CUM GAS-- M SIWHP
:::Mc:::Psi:::

10/30/64	0	2684.0
12/03/64	0	2676.0
09/24/65	137000	1779.0
04/12/66	221000	1536.0
03/22/67	368000	1338.0
04/01/68	543000	1298.0
06/18/70	825402	1531.0
06/29/71	906585	1552.0
07/25/72	989087	1516.0
05/09/73	1090220	1279.0
05/16/75	1281078	1300.0
06/06/77	1482274	1123.0
06/11/79	1623534	1263.0
08/03/81	1736589	982.0
12/20/83	1875271	1477.0
03/19/84	1888845	1246.0
09/19/85	2014246	1045.0
08/23/88	2175266	1112.0
10/07/90	2294688	992.0
09/18/92	2402868	892.0
04/15/93	2446565	889.0
06/28/94	2492577	859.0

Johnston A #13M

Dakota Offset

Print Time: Mon Jun 07 07:03:01 1999

Property Name: BREECH A	000629	251-039-26N06W09D00GP
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--DATE--  ---CUM GAS--  M SIWHP
#####  #####Mcf#####Psi#####
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09/20/75	0	1072.0
09/09/76	16478	737.0
06/18/77	32364	675.0

Gallup Offset

Page No.: 2
 Print Time: Mon May 24 12:18:22 1999
 Property ID: 3179
 Property Name: JOHNSTON A | 8 | 53098A-1
 Table Name: K:\ARIES\RR99PDP\TEST.DBF

--DATE--	---CUM GAS--	M SIWHP
■■■■■■■■■■	■■■■■■■■■■Mcf■■■■■■■■■■	■■■■■■■■■■Psi■■■■■■■■■■

10/17/59	0	1068.0
11/02/59	0	1067.0
05/29/60	66000	1000.0
05/28/61	199000	909.0
09/24/62	367000	846.0
03/19/63	436000	818.0
04/06/64	542000	784.0
09/24/65	696000	742.0
04/12/66	743000	760.0
09/22/67	834000	747.0
09/17/68	906000	724.0
07/18/69	957676	710.0
03/30/70	995286	697.0
06/29/71	1071112	669.0
07/25/72	1149075	642.0
05/09/73	1213395	606.0
05/02/74	1332717	612.0
06/03/76	1513969	512.0
05/26/78	1646475	494.0
05/29/80	1717448	508.0
05/11/82	1797234	476.0
06/11/84	1847921	485.0
08/19/86	1895216	477.0
08/07/89	1985846	392.0
07/31/91	2098639	412.0
04/15/93	2147983	408.0
07/31/93	2158951	405.0

Johnston A #13M

Mesaverde Offset

Johnston A #13M
Bottom Hole Pressures
Flowing and Static BHP
Cullender and Smith Method
Version 1.0 3/13/94

Gallup	
<u>GLP-Current</u>	
GAS GRAVITY	<u>0.704</u>
COND. OR MISC. (C/M)	<u>C</u>
%N2	<u>0.25</u>
%CO2	<u>0.115</u>
%H2S	<u>0</u>
DIAMETER (IN)	<u>2.375</u>
DEPTH (FT)	<u>6707</u>
SURFACE TEMPERATURE (DEG F)	<u>60</u>
BOTTOMHOLE TEMPERATURE (DEG F)	<u>137</u>
FLOWRATE (MCFPD)	<u>0</u>
SURFACE PRESSURE (PSIA)	<u>675</u>
BOTTOMHOLE PRESSURE (PSIA)	808.7
<u>GLP-Original</u>	
GAS GRAVITY	<u>0.704</u>
COND. OR MISC. (C/M)	<u>C</u>
%N2	<u>0.25</u>
%CO2	<u>0.115</u>
%H2S	<u>0</u>
DIAMETER (IN)	<u>2.375</u>
DEPTH (FT)	<u>6707</u>
SURFACE TEMPERATURE (DEG F)	<u>60</u>
BOTTOMHOLE TEMPERATURE (DEG F)	<u>137</u>
FLOWRATE (MCFPD)	<u>0</u>
SURFACE PRESSURE (PSIA)	<u>1072</u>
BOTTOMHOLE PRESSURE (PSIA)	1302.7

Johnston A #13M
Bottom Hole Pressures
Flowing and Static BHP
Cullender and Smith Method
Version 1.0 3/13/94

Mesaverde		Dakota	
<u>MV-Current</u>		<u>DK-Current</u>	
GAS GRAVITY	0.691	GAS GRAVITY	0.639
COND. OR MISC. (C/M)	C	COND. OR MISC. (C/M)	C
%N2	0.34	%N2	0.16
%CO2	1.3	%CO2	1.31
%H2S	0	%H2S	0
DIAMETER (IN)	2	DIAMETER (IN)	2.375
DEPTH (FT)	5398	DEPTH (FT)	7516
SURFACE TEMPERATURE (DEG F)	60	SURFACE TEMPERATURE (DEG F)	60
BOTTOMHOLE TEMPERATURE (DEG F)	137	BOTTOMHOLE TEMPERATURE (DEG F)	198
FLOWRATE (MCFPD)	0	FLOWRATE (MCFPD)	0
SURFACE PRESSURE (PSIA)	405	SURFACE PRESSURE (PSIA)	859
BOTTOMHOLE PRESSURE (PSIA)	463.3	BOTTOMHOLE PRESSURE (PSIA)	1019.9
<u>MV-Original</u>		<u>DK-Original</u>	
GAS GRAVITY	0.692	GAS GRAVITY	0.634
COND. OR MISC. (C/M)	C	COND. OR MISC. (C/M)	C
%N2	0.53	%N2	0.62
%CO2	1.28	%CO2	1.19
%H2S	0	%H2S	0
DIAMETER (IN)	2	DIAMETER (IN)	2.375
DEPTH (FT)	5398	DEPTH (FT)	7516
SURFACE TEMPERATURE (DEG F)	60	SURFACE TEMPERATURE (DEG F)	60
BOTTOMHOLE TEMPERATURE (DEG F)	137	BOTTOMHOLE TEMPERATURE (DEG F)	198
FLOWRATE (MCFPD)	0	FLOWRATE (MCFPD)	0
SURFACE PRESSURE (PSIA)	1068	SURFACE PRESSURE (PSIA)	2684
BOTTOMHOLE PRESSURE (PSIA)	1242.2	BOTTOMHOLE PRESSURE (PSIA)	3219.5

DATE IN 7/6/99	SUSPENSE 7/26/99	ENGINEER DC	LOGGED W	TYPE DHC
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ABOVE THIS LINE FOR DIVISION USE ONLY

NEW MEXICO OIL CONSERVATION DIVISION
- Engineering Bureau -

2404

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



Regulatory/Compliance Administrator

Print or Type Name

Signature

Title

Date

BURLINGTON
RESOURCES

SAN JUAN DIVISION
3535 East 30th Street: (87402-8801)
P.O. BOX 4289
Farmington, New Mexico 87499-4289

BURLINGTON
RESOURCES

SAN JUAN DIVISION
3535 East 30th Street: (87402-8801)
P.O. BOX 4289
Farmington, New Mexico 87499-4289

Robert Walter Lundell
2450 Fondren #304
Houston, TX 77063

x

Susan Beamon Porter
319 Knipp Forest
Houston, TX 77024

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P.O. BOX 4289
Farmington, New Mexico 87499-4289

BURLINGTON
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Farmington, New Mexico 87499-4289

Carolyn Beamon Tilley
5225 Preson Haven
Dallas, TX 75229

x

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x

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Cathryn Beamon
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Houston, TX 77077

x

James Robert Beamon
2603 Augusta, Suite 1050
Albuquerque, NM 87176

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BURLINGTON
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Robert Beamon
Three Riverway, Suite 470
Houston, TX 77056

x

Claudia Marcia Lundell Gilmer
30 Golden Place
The Woodlands, TX 77381

BURLINGTON
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BURLINGTON
RESOURCES

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Sharon Beamon Burns
4023 Arbor Way
Charlotte, NC 28211

x

Linda Jeanne Lundell Lindsey
PO Box 631565
Nacogdoches, TX 75963-1565

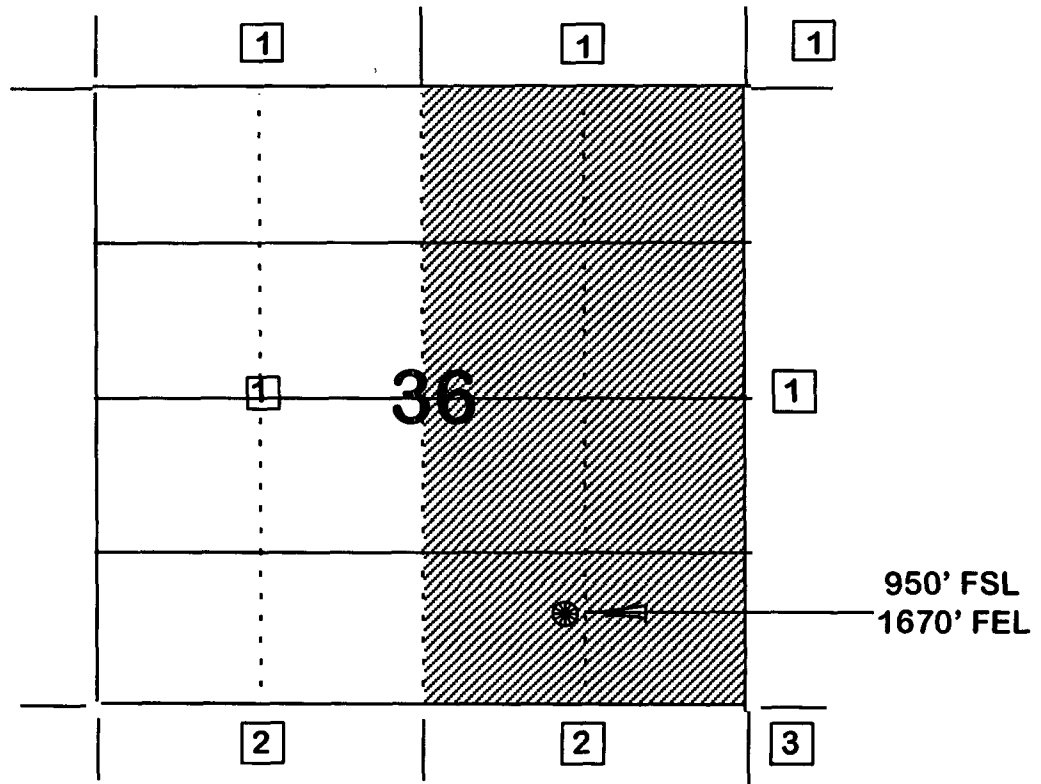
BURLINGTON RESOURCES OIL AND GAS COMPANY

**Johnston A #13M
OFFSET OPERATOR \ OWNER PLAT**

**Mesaverde (E/2) / Dakota (E/2)
Gallup (SE/4) Formations**

Commingled well

Township 27 North, Range 6 West



1) Burlington Resources

2) Caulkins Oil Company
1600 Broadway, Suite 1400
Denver, CO 80202

3) Energen Resources MAQ, Inc.
Attn: Rich Corcoran
2198 Bloomfield Highway
Farmington, NM 87401

Johnston A #13M

27N-6W-36

Mesaverde / Gallup / Dakota

