

DATE IN 1/3/00	SUSPENSE 1/24/00	ENGINEER DC	LOGGED MV	TYPE DHC
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ABOVE THIS LINE FOR DIVISION USE ONLY

NEW MEXICO OIL CONSERVATION DIVISION
- Engineering Bureau -

2602

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]

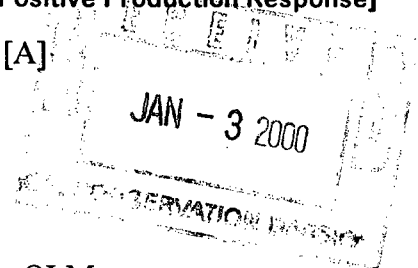
[1] TYPE OF APPLICATION - Check Those Which Apply for [A]

[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 Cole

Peggy Cole

Regulatory/Compliance Administrator

Print or Type Name

Signature

Title

Date

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 & GAS COMPANY

PO Box 4289, Farmington, NM 87499

Operator

Address

REESE MESA

1

H, Sec. 12, T32N, R08W

SAN JUAN

Lease

Well No.

Unit Ltr. - Sec - Twp - Rge

County

Spacing Unit Lease Types: (check 1 or more)

OGRID NO. 14538 Property Code 18606 API NO. 30-045-2053600 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		BASIN DAKOTA-71599
2. Top and Bottom of Pay Section (Perforations)	6050'-6312'		8546'-8669'
3. Type of production (Oil or Gas)	GAS		GAS
4. Method of Production (Flowing or Artificial Lift)	FLOWING		FLOWING
5. Bottomhole Pressure	(Current) a. 271.2 psia @ 6181'	a.	a. 567.5 psia @ 7927'
Oil Zones - Artificial Lift: Estimated Current Gas & Oil - Flowing: Measured Current All Gas Zones: Estimated or Measured	(Original) b. 1128.5 psia @ 6181'	b.	b. 2043 psia @ 7927'
6. Oil Gravity (API) or Gas BTU Content	1005 BTU		988 BTU
7. Producing or Shut-In?	PRODUCING		PRODUCING
Production Marginal? (yes or no)	YES		YES
* If Shut-In and oil/gas/water rates of last production	Date: Rates:	Date: Rates:	Date: 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 11/1/99 - 11/30/99 Rates: 155 MCF/D 0 BOD 0 BWD	Date: Rates:	Date: 11/1/99 - 11/30/99 Rates: 81MCF/D 0 BOD 0 BWD
8. Fixed Percentage Allocation Formula -% for each zone (total of %'s to equal 100%)	Oil: Gas: Will supply after commingling	Oil: Gas: Will supply after commingling	Oil: Gas: Will supply after commingling

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 ☐ 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 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 Mike Haddenham TITLE Operations Engineer DATE 12-29-99TYPE OR PRINT NAME MIKE HADDENHAM TELEPHONE NO. (505) 326-9577

NEW MEXICO OIL CONSERVATION COMMISSION
WELL LOCATION AND ACREAGE DEDICATION PLAT

Form C-102
Supersedes C-128
Effective 1-1-65

All distances must be from the outer boundaries of the Section.

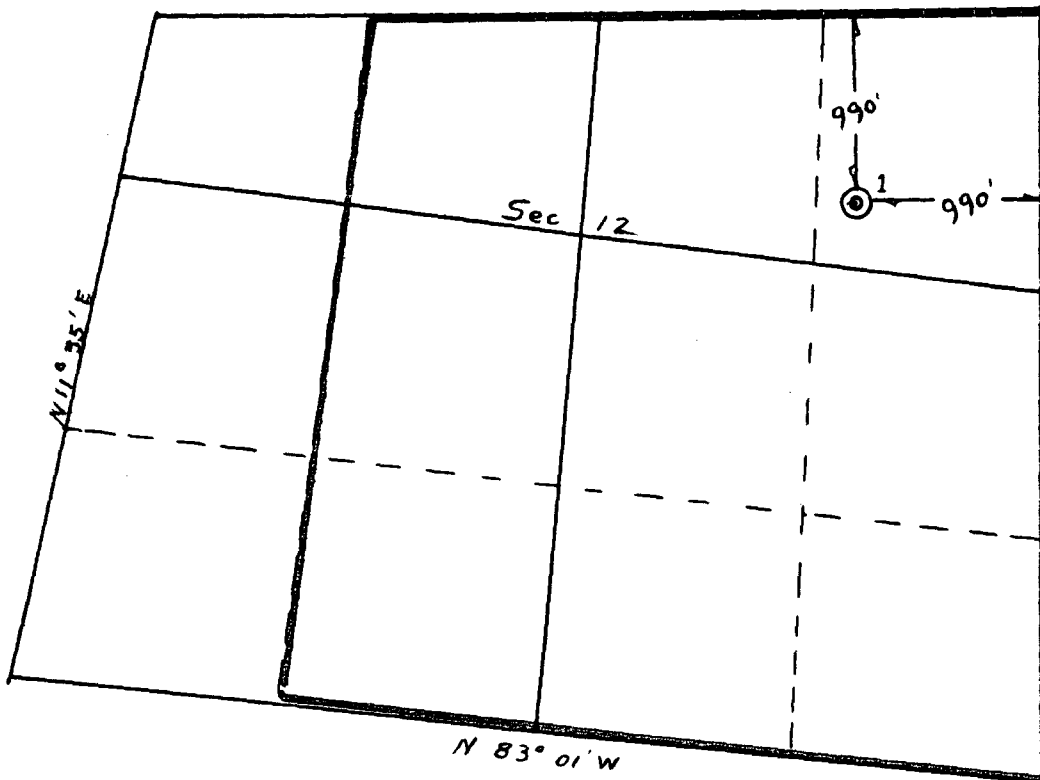
Operator Aztec Oil & Gas Company			Lease Reese Mesa		Well No. 1
Unit Letter H	Section 12	Township 32N	Range 8W	County San Juan	
Actual Footage Location of Well: 990 feet from the North line and 990 feet from the East line					
Ground Level Elev. 7095	Producing Formation Dakota-Mesa Verde		Pool Blanco Mesa Verde-Basin Dakota		Dedicated Acreage: 322.38 Acres

1. Outline the acreage dedicated to the subject well by colored pencil or hachure marks on the plat below.
2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).
3. If more than one lease of different ownership is dedicated to the well, have the interests of all owners been consolidated by communitization, unitization, force-pooling, etc?

☐ Yes ☐ No If answer is "yes," type of consolidation _____

If answer is "no," list the owners and tract descriptions which have actually been consolidated. (Use reverse side of this form if necessary.) _____

No allowable will be assigned to the well until all interests have been consolidated (by communitization, unitization, forced-pooling, or otherwise) or until a non-standard unit, eliminating such interests, has been approved by the Commission.



Scale: 1"=1000'

CERTIFICATION

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

Name Joe C. Salmeron
Position District Superintendent
Company Aztec Oil & Gas
Date 7-21-69

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 knowledge and belief.

Date Surveyed July 14, 1969
Registered Professional Engineer and/or Land Surveyor
Fred R. Kerr Jr.
Certificate No. 3950

Reese Mesa #1
Bottom Hole Pressures
Flowing and Static BHP
Cullender and Smith Method

Version 1.0 3/13/94

MV		DK	
<u>MV-Current</u>		<u>DK-Current</u>	
GAS GRAVITY	0.592	GAS GRAVITY	0.592
COND. OR MISC. (C/M)	M	COND. OR MISC. (C/M)	M
%N2	0.09	%N2	0.14
%CO2	2.83	%CO2	2.81
%H2S	0	%H2S	0
DIAMETER (IN)	4	DIAMETER (IN)	4
DEPTH (FT)	6181	DEPTH (FT)	7972
SURFACE TEMPERATURE (DEG F)	60	SURFACE TEMPERATURE (DEG F)	60
BOTTOMHOLE TEMPERATURE (DEG F)	140	BOTTOMHOLE TEMPERATURE (DEG F)	184
FLOWRATE (MCFPD)	0	FLOWRATE (MCFPD)	0
SURFACE PRESSURE (PSIA)	239	SURFACE PRESSURE (PSIA)	483
BOTTOMHOLE PRESSURE (PSIA)	271.2	BOTTOMHOLE PRESSURE (PSIA)	567.5
<u>MV-Original</u>		<u>DK-Original</u>	
GAS GRAVITY	0.592	GAS GRAVITY	0.592
COND. OR MISC. (C/M)	M	COND. OR MISC. (C/M)	M
%N2	0.09	%N2	0.14
%CO2	2.83	%CO2	2.81
%H2S	0	%H2S	0
DIAMETER (IN)	4	DIAMETER (IN)	4
DEPTH (FT)	6181	DEPTH (FT)	7972
SURFACE TEMPERATURE (DEG F)	60	SURFACE TEMPERATURE (DEG F)	60
BOTTOMHOLE TEMPERATURE (DEG F)	140	BOTTOMHOLE TEMPERATURE (DEG F)	184
FLOWRATE (MCFPD)	0	FLOWRATE (MCFPD)	0
SURFACE PRESSURE (PSIA)	983	SURFACE PRESSURE (PSIA)	1710
BOTTOMHOLE PRESSURE (PSIA)	1128.5	BOTTOMHOLE PRESSURE (PSIA)	2043.0

STATE OF NEW MEXICO
ENERGY and MINERALS
DEPARTMENT

OIL CONSERVATION DIVISION

This form is not to
be used for reporting
packer leakage tests
in Southeast New Mexico

NORTHWEST NEW MEXICO PACKER-LEAKAGE TEST

Operator BURLINGTON RESOURCES OIL & GAS CO. Lease REESE MESA Well No. 1Location
of Well: Unit H Sect 12 Twp. 032N Rge. 008W County SAN JUAN

	NAME OF RESERVOIR OR POOL	TYPE OF PROD. (Oil or Gas)	METHOD OF PROD. (Flow or Art. Lift)	PROD. MEDIUM (Tbg. or Csg.)
Upper Completion	MESAVERDE	Gas	Flow	Tubing
Lower Completion	DAKOTA	Gas	Flow	Tubing

PRE-FLOW SHUT-IN PRESSURE DATA

Upper Completion	Hour, date shut-in	Length of time shut-in	SI press. psig	Stabilized? (Yes or No)
	06/11/1999	144 Hours	239	
Lower Completion	Hour, date shut-in	Length of time shut-in	SI press. psig	Stabilized? (Yes or No)
	06/11/1999	96 Hours	483	

FLOW TEST NO. 1

Commenced at (hour,date)*		06/15/1999		Zone producing (Upper or Lower)	
TIME (hour,date)	LAPSED TIME SINCE*	PRESSURE		PROD. ZONE	REMARKS
		Upper Completion	Lower Completion	TEMP	
6/16/199	120 Hours	241	399		LOWER ON
6/17/199	144 Hours	244	199		HI LINE PRES.

Production rate during test

Oil: _____ BOPD based on _____ Bbls. in _____ Hours. _____ Grav. _____ GOR _____

Gas: _____ MCFPD; Tested thru (Orifice or Meter): _____

MID-TEST SHUT-IN PRESSURE DATA

Upper Completion	Hour, date shut-in	Length of time shut-in	SI press. psig	Stabilized? (Yes or No)
Lower Completion	Hour, date shut-in	Length of time shut-in	SI press. psig	Stabilized? (Yes or No)

(Continue on reverse side)

Sample Date: 19970801**Hydrocarbon Fractions****Mol % C1: 95.48****Mol % C2: 1.3****Mol % C3: 0.19****Mol % iC4: 0.04****Mol % nC4: 0.03****Mol % iC5: 0.01****Mol % nC5: 0.01****Mol % C6: 0****Mol % C6+: 0.02****Mol % C7: 0****Impurities****Mol % H2: 0****Mol % He: 0****Mol % N2: 0.09****Mol % O2: 0****Mol % H2S: 0****Mol % CO2: 2.83****Test Pressure: 14.73****Test Temperature: 60****Wet BTU Factor (BTU/CF at 14.73): 982.614****Dry BTU Factor (BTU/CF at 14.73): 1000****Measured Specific Gravity: 0****Calculated Specific Gravity: 0.592**

Sample Date: 19960801**Hydrocarbon Fractions****Mol % C1: 94.99****Mol % C2: 1.67****Mol % C3: 0.26****Mol % iC4: 0.05****Mol % nC4: 0.04****Mol % iC5: 0.01****Mol % nC5: 0****Mol % C6: 0****Mol % C6+: 0.02****Mol % C7: 0****Impurities****Mol % H2: 0****Mol % He: 0****Mol % N2: 0.32****Mol % O2: 0****Mol % H2S: 0****Mol % CO2: 2.64****Test Pressure: 14.73****Test Temperature: 60****Wet BTU Factor (BTU/CF at 14.73): 987.527****Dry BTU Factor (BTU/CF at 14.73): 1005****Measured Specific Gravity: 0****Calculated Specific Gravity: 0.595**

Sample Date: 19970801**Hydrocarbon Fractions****Mol % C1: 95.54****Mol % C2: 1.25****Mol % C3: 0.18****Mol % iC4: 0.04****Mol % nC4: 0.02****Mol % iC5: 0****Mol % nC5: 0.01****Mol % C6: 0****Mol % C6+: 0.01****Mol % C7: 0****Impurities****Mol % H2: 0****Mol % He: 0****Mol % N2: 0.14****Mol % O2: 0****Mol % H2S: 0****Mol % CO2: 2.81****Test Pressure: 14.73****Test Temperature: 60****Wet BTU Factor (BTU/CF at 14.73): 981.631****Dry BTU Factor (BTU/CF at 14.73): 999****Measured Specific Gravity: 0****Calculated Specific Gravity: 0.592**

Sample Date: 19960801**Hydrocarbon Fractions****Mol % C1: 95.09****Mol % C2: 0.98****Mol % C3: 0.15****Mol % iC4: 0.04****Mol % nC4: 0.03****Mol % iC5: 0****Mol % nC5: 0****Mol % C6: 0****Mol % C6+: 0****Mol % C7: 0****Impurities****Mol % H2: 0****Mol % He: 0****Mol % N2: 0.14****Mol % O2: 0****Mol % H2S: 0****Mol % CO2: 3.57****Test Pressure: 14.73****Test Temperature: 60****Wet BTU Factor (BTU/CF at 14.73): 970.822****Dry BTU Factor (BTU/CF at 14.73): 988****Measured Specific Gravity: 0****Calculated Specific Gravity: 0.597**

REESE MESA 1
Sec. 12, T32N R08W
San Juan County, New Mexico

Production Allocation Based On Cumulative Production From 11/1/99 - 11/30/99

	Cumulative Production		% Allocation	
	MCF	Bbl Oil	% Gas	% Oil
Dakota	81	0	34.3%	0.0%
Mesaverde	155	0	65.7%	0.0%
Total	236	0	100.0%	0.0%

Gas Allocation:

Dakota	(Total Dakota Production)	81 MCF	= 34.32%
	(Total Combined Production)	236 MCF	

Mesaverde	(Total Mesaverde Production)	155 MCF	= 65.68%
	(Total Combined Production)	236 MCF	

Oil Allocation:

Dakota	(Total Dakota Production)	0 Bbl Oil	= 0.00%
	(Total Combined Production)	0 Bbl Oil	

Mesaverde	(Total Mesaverde Production)	0 Bbl Oil	= 0.00%
	(Total Combined Production)	0 Bbl Oil	

MV 155 mcf/d

BURLINGTON RESOURCES OIL & GAS COMPANY
DAILY HISTORY REPORT - ESTIMATED PRODUCTION VOLUMES BY WELL
FOR MONTH ENDING: 1999-11-30

12/20/1999

Pressure Base 14.73

6599601 REESE MESA 1

Date	Gas Sales	Net Gas	Est. Oil	Net Oil	Est. Water
11/01/99	210.000	45.938	0.000	0.000	0.000
11/02/99	161.000	35.219	0.000	0.000	0.000
11/03/99	97.000	21.219	0.000	0.000	0.000
11/04/99	113.000	24.719	0.000	0.000	0.000
11/05/99	129.000	28.219	0.000	0.000	0.000
11/06/99	226.000	49.438	0.000	0.000	0.000
11/07/99	203.000	44.406	0.000	0.000	0.000
11/08/99	97.000	21.219	0.000	0.000	0.000
11/09/99	184.000	40.250	0.000	0.000	0.000
11/10/99	145.000	31.719	0.000	0.000	0.000
11/11/99	129.000	28.219	0.000	0.000	0.000
11/12/99	220.000	48.125	0.000	0.000	0.000
11/13/99	177.000	38.719	0.000	0.000	0.000
11/14/99	161.000	35.219	0.000	0.000	0.000
11/15/99	220.000	48.125	0.000	0.000	0.000
11/16/99	129.000	28.219	0.000	0.000	0.000
11/17/99	177.000	38.719	0.000	0.000	0.000
11/18/99	97.000	21.219	0.000	0.000	0.000
11/19/99	187.000	40.906	0.000	0.000	0.000
11/20/99	177.000	38.719	0.000	0.000	0.000
11/21/99	129.000	28.219	0.000	0.000	0.000
11/22/99	203.000	44.406	0.000	0.000	0.000
11/23/99	129.000	28.219	0.000	0.000	0.000
11/24/99	194.000	42.438	0.000	0.000	0.000
11/25/99	177.000	38.719	0.000	0.000	0.000
11/26/99	69.000	15.094	0.000	0.000	0.000
11/27/99	129.000	28.219	0.000	0.000	0.000
11/28/99	104.000	22.750	0.000	0.000	0.000
11/29/99	129.000	28.219	0.000	0.000	0.000
11/30/99	138.000	30.188	0.000	0.000	0.000
Asset Identifier 6599601	4640.000	1015.006	0.000	0.000	0.000

DK Aug 81 mcf/D

12/20/1999

Pressure Base 14.73

6599602 REESE MESA I

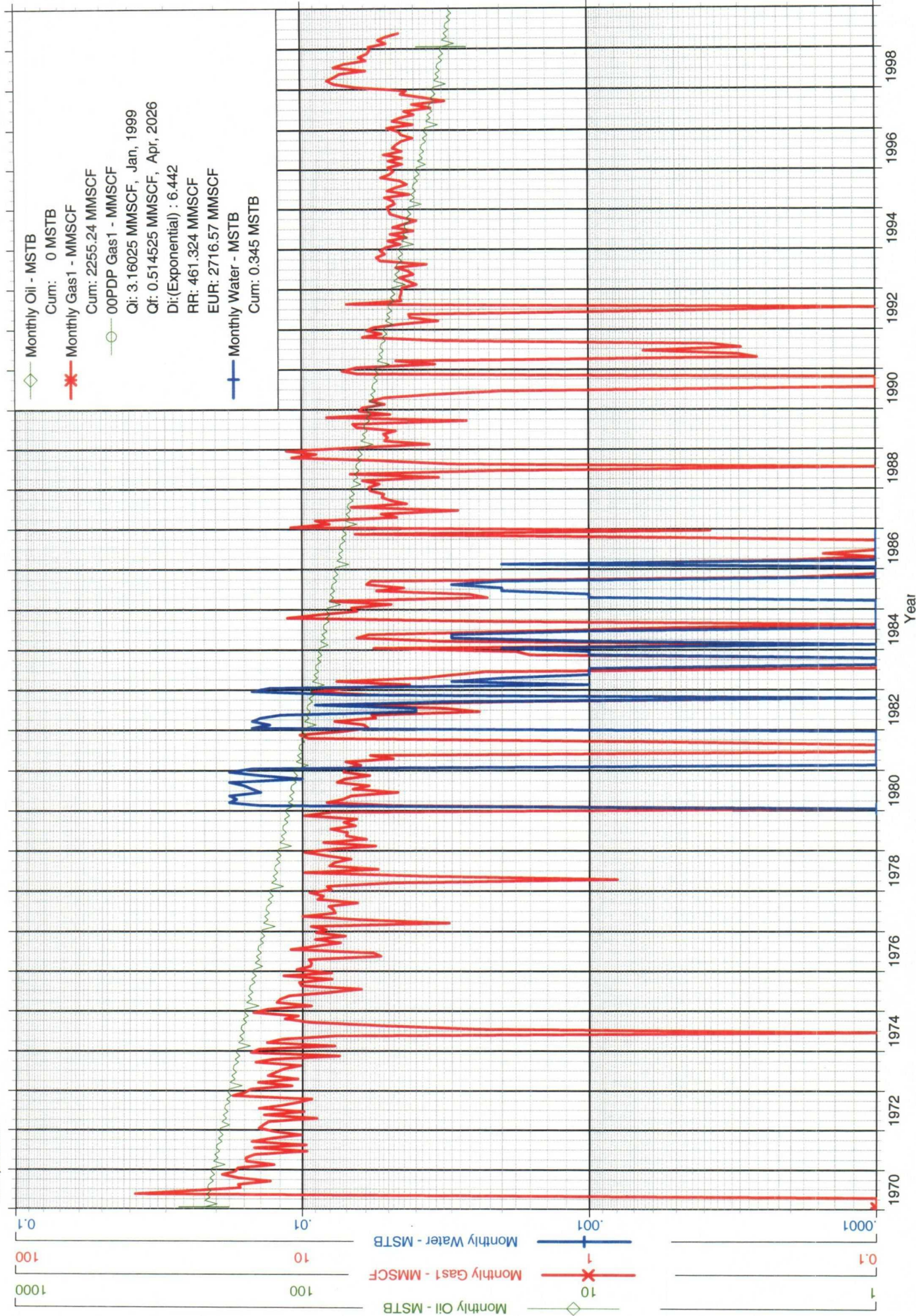
**BURLINGTON RESOURCES OIL & GAS COMPANY
DAILY HISTORY REPORT - ESTIMATED PRODUCTION VOLUMES BY WELL
FOR MONTH ENDING: 1999-11-30**

Date	Gas Sales	Net Gas	Est. Oil	Net Oil	Est. Water
11/01/99	69,000	15,094	0.000	0.000	0.000
11/02/99	33,000	7,219	0.000	0.000	0.000
11/03/99	71,000	15,531	0.000	0.000	0.000
11/04/99	119,000	26,031	0.000	0.000	0.000
11/05/99	105,000	22,969	0.000	0.000	0.000
11/06/99	85,000	18,594	0.000	0.000	0.000
11/07/99	71,000	15,531	0.000	0.000	0.000
11/08/99	51,000	11,156	0.000	0.000	0.000
11/09/99	28,000	6,125	0.000	0.000	0.000
11/10/99	14,000	3,063	0.000	0.000	0.000
11/11/99	71,000	15,531	0.000	0.000	0.000
11/12/99	128,000	28,000	0.000	0.000	0.000
11/13/99	114,000	24,938	0.000	0.000	0.000
11/14/99	102,000	22,313	0.000	0.000	0.000
11/15/99	85,000	18,594	0.000	0.000	0.000
11/16/99	57,000	12,469	0.000	0.000	0.000
11/17/99	6,000	0.000	0.000	0.000	0.000
11/18/99	85,000	18,594	0.000	0.000	0.000
11/19/99	85,000	18,594	0.000	0.000	0.000
11/20/99	85,000	18,594	0.000	0.000	0.000
11/21/99	156,000	34,125	0.000	0.000	0.000
11/22/99	142,000	31,063	0.000	0.000	0.000
11/23/99	57,000	12,469	0.000	0.000	0.000
11/24/99	114,000	24,938	0.000	0.000	0.000
11/25/99	105,000	22,969	0.000	0.000	0.000
11/26/99	91,000	19,906	0.000	0.000	0.000
11/27/99	83,000	18,156	0.000	0.000	0.000
11/28/99	66,000	14,438	0.000	0.000	0.000
11/29/99	57,000	12,469	0.000	0.000	0.000
11/30/99	31,000	6,781	0.000	0.000	0.000
Asset Identifier 6599602		2360,000	516,254	0.000	0.000

273038645123.447 REESE MESA 1 (273038645123.447) Data: Sep. 1969-Jun. 1999

Operator: BURLINGTON RESOURCES OG
Field: BLANCO MESAVERDE (PRORATED GAS)
Zone:
Type: Gas
Group: None

Production Cums
Oil: 0 MSTB
Gas: 2255.24 MMSCF
Water: 0.345 MSTB
Cond: 0 MSTB



256809597267.288 REESE MESA 1 (256809597267.288) Data: Sep. 1969-Jun. 1999

Operator: BURLINGTON RESOURCES OG
Field: BASIN DAKOTA (PRORATED GAS)

Zone:

Type: Gas

Group: None

Production Cums
Oil: 0 MSTB
Gas: 1394.67 MMSCF
Water: 0.379 MSTB
Cond: 0 MSTB

