

DISTRICT I

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

DISTRICT II

811 South First St. Artesia, NM 80210-2835

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
OperatorPO Box 4289, Farmington, NM 87499
Address

Reid A

1M

J, Sec. 13, T29N, R10W

San Juan

Lease

Well No.

Unit Ltr. - Sec - Twp - Rge

County

Spacing Unit Lease Types: (check 1 or more)

OGRID NO. 14538 Property Code 7417 API NO. 30-045-2449700 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 Mesa Verde-72399		Basin Dakota-71599
2. Top and Bottom of Pay Section (Perforations)	3801'-4481'		6460'-6637'
3. Type of production (Oil or Gas)	Gas		Gas
4. Method of Production (Flowing or Artificial Lift)	Flowing		Flowing
5. Bottomhole Pressure Oil Zones - Artificial Lift: Estimated Current Gas & Oil - Flowing: Measured Current All Gas Zones: Estimated or Measured	(Current) a. 405 psia @ 4141' (Original) b. 851 psia @ 4141'		a. 720 psia @ 6548' b. 2538 psia @ 6549'
6. Oil Gravity (API) or Gas BTU Content	1236 BTU		1250 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 Note: For new zones with no production history, applicant shall be required to attach production estimates and supporting data	Date: Rates:	Date: Rates:	Date: Rates:
* If Producing, give data and oil/gas/water of recent test (within 60 days)	Date: 11/30/98 Rates: 48 MCFD, 0 BOD, 0 BOW	Date: Rates:	Date: 11/30/98 Rates: 53 MCFD, 0 BOD, 0 BOW
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 ☐ 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 03-15-99TYPE OR PRINT NAME Kevin L. Midkiff TELEPHONE NO. (505) 326-9700

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

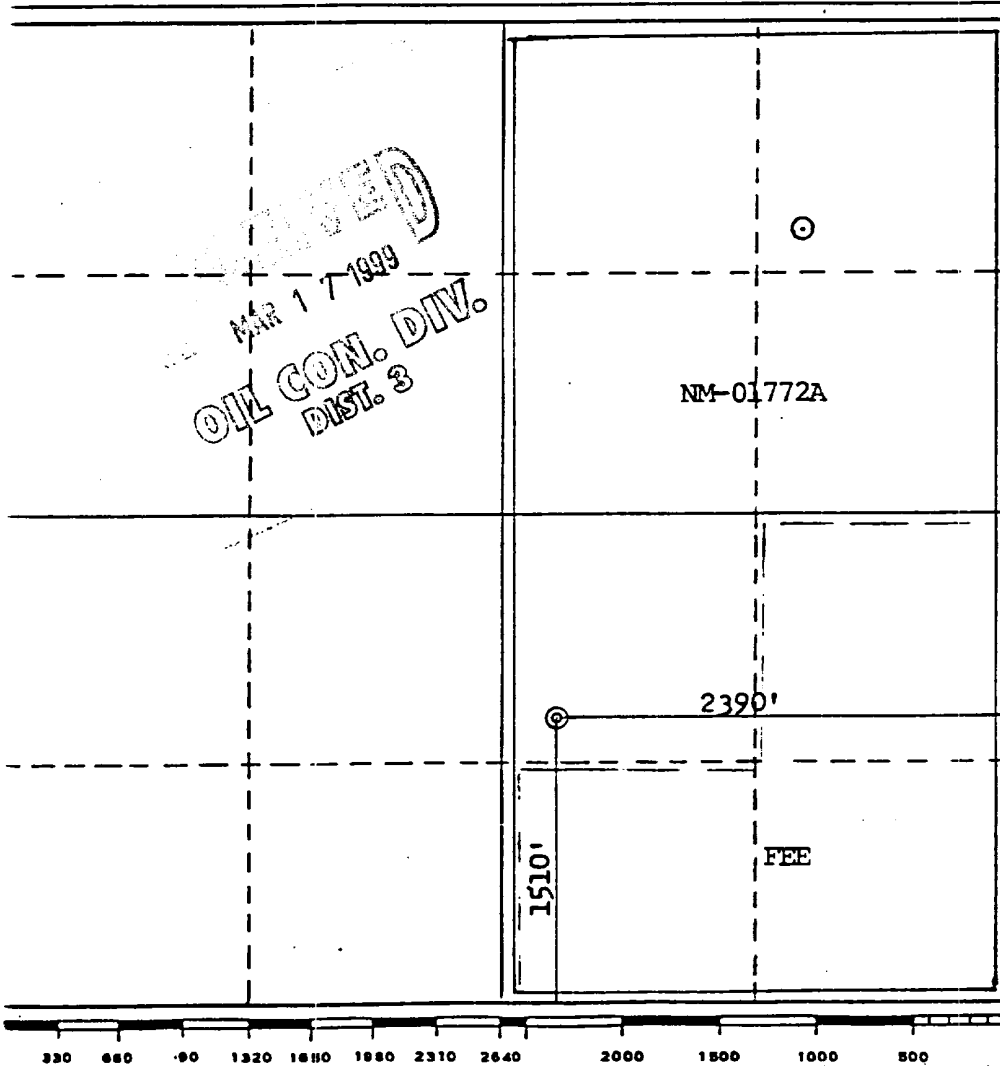
Lessor SOUTHLAND ROYALTY COMPANY			Lease REID "A"		Well No. 1-M
Init Letter J	Section 13	Township 29N	Range 10W	County San Juan	
Actual Footage Location of Well:					
1510		feet from the South	line and	2390	feet from the East
Ground Level Elev. 5668	Producing Formation Dakota - Mesa Verde		Pool Basin - Blanco		Dedicated Acreage: 320 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 Communitization

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.



CERTIFICATION

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

Curtis C. Parsons

Name
Curtis C. Parsons

Position
District Engineer

Company
Southland Royalty Company

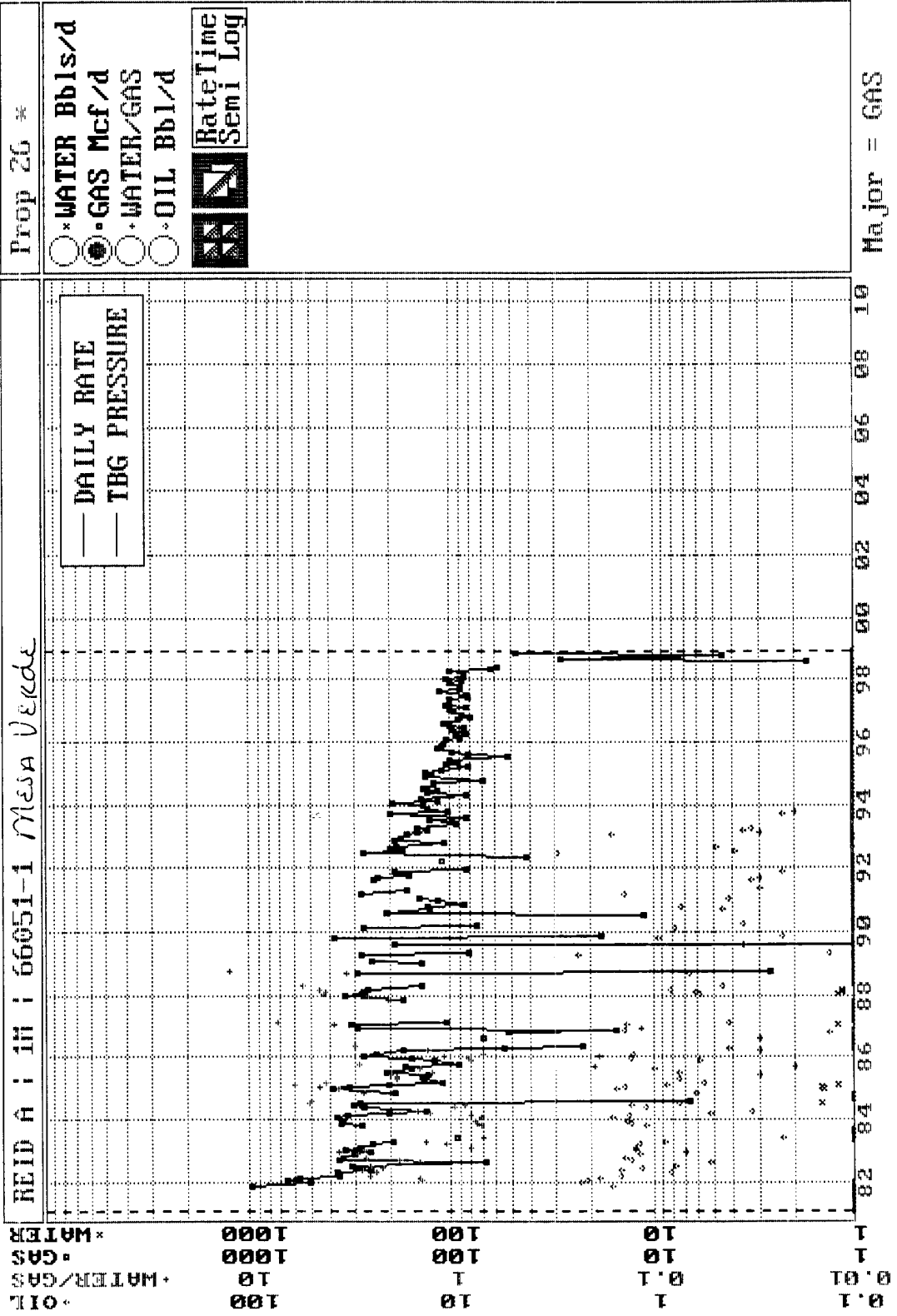
Date
April 16, 1980

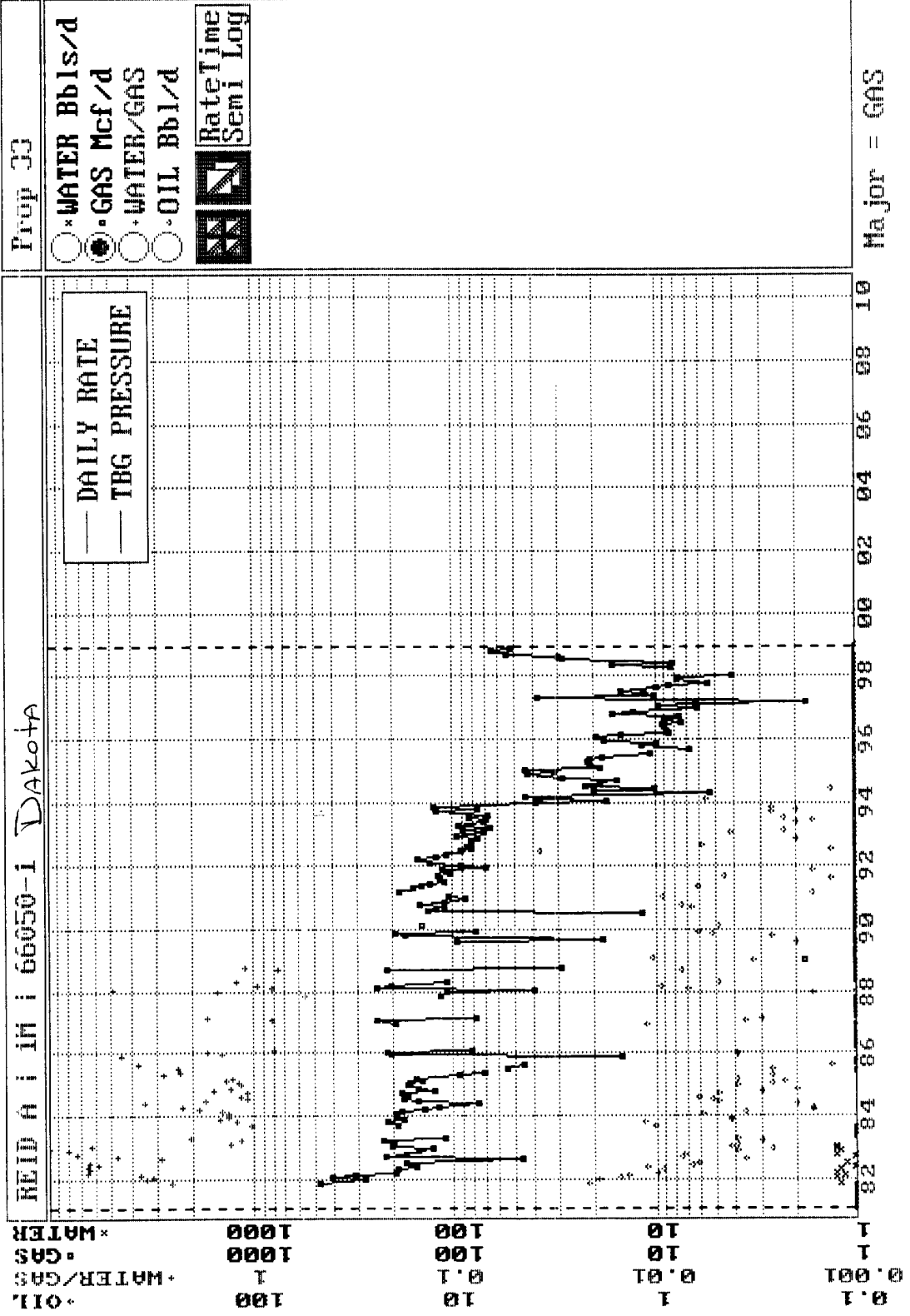
I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my knowledge and belief.

Date Surveyed
April 10, 1980

Registered Professional Engineer and/or Land Surveyor
Fred B. Kerr Jr.

Certificate No. **3950**





Page No.: 1

Print Time: Thu Feb 04 08:22:37 1999

Property ID: 1317

Property Name: NEUDECKER | 7 | 27620-1

Table Name: K:\ARIES\RR99PDP\TEST.DBF

*Used as an offset Dakota Well
for Reid A #1 m, Offset well
Approximately 1/2 mile W. of Reid*

--DATE--	---CUM_GAS-- Mcf	M SIWHP Psi
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10/08/63	0	2011.0
12/24/64	55000	1477.0
08/05/65	125000	1446.0
10/18/66	361000	1282.0
02/16/67	421000	1141.0
02/02/68	580000	1117.0
12/16/70	898071	963.0
08/14/71	975044	874.0
09/08/72	1096431	759.0
06/06/73	1163922	754.0
05/06/75	1309298	645.0
06/20/77	1450701	694.0
06/18/79	1556665	718.0
08/05/81	1644514	757.0
07/18/83	1693211	747.0
07/11/85	1740658	744.0
10/04/88	1802141	676.0
04/15/93	1853262	677.0
11/30/98	2007518	587.0

Based on Pressure vs Cum gas curve

Page No.: 1
Print Time: Fri Mar 12 14:35:55 1999
Property ID: 3585
Property Name: REID A | 1M | 66051-1 *Nilesa Verde*
Table Name: K:\ARIES\RR99PDP\TEST.DBF

<u>--DATE--</u>	<u>---CUM_GAS--</u>	<u>M SIWHP</u>
	<u>Mcf</u>	<u>Psi</u>

12/12/81	29892	741.0 - <i>ORIGINAL</i>
05/31/82	0	919.0
06/08/82	121434	639.0
05/02/83	204275	582.0
04/04/84	268585	534.0
04/23/86	395172	507.0
08/30/89	504176	502.0
04/10/91	565656	438.0
09/10/91	586247	450.0
06/03/93	668224	394.0

11/30/99	854470	350 <i>CURRENT</i>
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BASED ON PRESSURE VS CUM GAS CURVE

Reid A #1M
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	<u>0.727</u>	GAS GRAVITY	<u>0.736</u>
COND. OR MISC. (C/M)	<u>M</u>	COND. OR MISC. (C/M)	<u>M</u>
%N2	<u>0.32</u>	%N2	<u>0.27</u>
%CO2	<u>0.82</u>	%CO2	<u>0.82</u>
%H2S	<u>0</u>	%H2S	<u>0</u>
DIAMETER (IN)	<u>4.95</u>	DIAMETER (IN)	<u>4.95</u>
DEPTH (FT)	<u>4141</u>	DEPTH (FT)	<u>6549</u>
SURFACE TEMPERATURE (DEG F)	<u>60</u>	SURFACE TEMPERATURE (DEG F)	<u>60</u>
BOTTOMHOLE TEMPERATURE (DEG F)	<u>111</u>	BOTTOMHOLE TEMPERATURE (DEG F)	<u>141</u>
FLOWRATE (MCFPD)	<u>0</u>	FLOWRATE (MCFPD)	<u>0</u>
SURFACE PRESSURE (PSIA)	<u>362</u>	SURFACE PRESSURE (PSIA)	<u>599</u>
BOTTOMHOLE PRESSURE (PSIA)	<u>404.9</u>	BOTTOMHOLE PRESSURE (PSIA)	<u>719.9</u>
<u>MV-Original</u>		<u>DK-Original</u>	
GAS GRAVITY	<u>0.727</u>	GAS GRAVITY	<u>0.736</u>
COND. OR MISC. (C/M)	<u>M</u>	COND. OR MISC. (C/M)	<u>M</u>
%N2	<u>0.32</u>	%N2	<u>0.27</u>
%CO2	<u>0.82</u>	%CO2	<u>0.82</u>
%H2S	<u>0</u>	%H2S	<u>0</u>
DIAMETER (IN)	<u>4.95</u>	DIAMETER (IN)	<u>4.95</u>
DEPTH (FT)	<u>4141</u>	DEPTH (FT)	<u>6549</u>
SURFACE TEMPERATURE (DEG F)	<u>60</u>	SURFACE TEMPERATURE (DEG F)	<u>60</u>
BOTTOMHOLE TEMPERATURE (DEG F)	<u>111</u>	BOTTOMHOLE TEMPERATURE (DEG F)	<u>141</u>
FLOWRATE (MCFPD)	<u>0</u>	FLOWRATE (MCFPD)	<u>0</u>
SURFACE PRESSURE (PSIA)	<u>753</u>	SURFACE PRESSURE (PSIA)	<u>2023</u>
BOTTOMHOLE PRESSURE (PSIA)	<u>851.2</u>	BOTTOMHOLE PRESSURE (PSIA)	<u>2538.0</u>

FARMINGTON

ANNUAL PRODUCTION FOR 66051

PHS020M1

REID A 1M

BLANCO MESAVERDE (PRORATED GAS FIELD MESAVERDE ZONE

===== OIL CUM ===== ===== GAS CUM ===== ===== WATER CUM =====
 PC DATE BBLs PC DATE MCF DATE BBLs

```
=====
YEAR      OIL      OIL CUM      GAS      GAS CUM      WATER      WATER CUM
1991      90        1944      45716     593349
1992     117        2061      44745     638094
1993      97        2158      47870     685964
1994       7        2165      45399     731363
1995             2165      36391     767754
1996             2165      34265     802019
1997       2        2167      34754     836773
1998             2167      17697     854470
=====
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POSITION CURSOR BY YEAR AND PRESS ENTER TO DISPLAY MONTHLY PRODUCTION

ENTER - CONTINUES ANNUAL DISPLAY

PF3 - TRANSFER TO UPDATE

PF6 - RETURN TO WELL-INFO DISPLAY

PF9 - ANNUAL INJECTION DISPLAY

PF10 - HELP INFORMATION

FARMINGTON

1998 MONTHLY PRODUCTION FOR 66051

PHS030M1

REID A 1M

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	31	02			01	3198	31	1234	15.025			
2	2	F	28	02			01	2604	28	1234	15.025			
3	2	F	31	02			01	2612	31	1235	15.025			
4	2	F	30	02			01	3067	30	1235	15.025			
5	2	F	31	02			01	1921	31	1235	15.025			
6	2	F	30	02			01	1798	30	1235	15.025			
7	2	F	31	02			01		31		15.025			
8	2	F	31	02			01	53	31	1236	15.025			
9	2	F	30	02			01	854	30	1236	15.025			
10	2	F	31	02			01	137	31	1236	15.025			
11	2	F					01	1453		1236	15.025			
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 01/06/99

FARMINGTON

ANNUAL PRODUCTION FOR 66050

PHS020M1

REID A 1M

BASIN DAKOTA (PRORATED GAS) FIELD

DAKOTA ZONE

===== OIL CUM =====

===== GAS CUM =====

===== WATER CUM =====

PC DATE

BBLs

PC DATE

MCF

DATE

BBLs

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=====
YEAR      OIL      OIL CUM      GAS      GAS CUM      WATER      WATER CUM
1991       81       1149      41414     364253              745
1992      142       1291      36496     400749              745
1993       65       1356      29795     430544              745
1994       26       1382       8977     439521              745
1995        4       1386       6162     445683              745
1996        3       1389       3953     449636              745
1997        1       1390       4038     453674              745
1998              1390       8163     461837              745
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POSITION CURSOR BY YEAR AND PRESS ENTER TO DISPLAY MONTHLY PRODUCTION

ENTER - CONTINUES ANNUAL DISPLAY

PF3 - TRANSFER TO UPDATE

PF6 - RETURN TO WELL-INFO DISPLAY

PF9 - ANNUAL INJECTION DISPLAY

PF10 - HELP INFORMATION

FARMINGTON

1998 MONTHLY PRODUCTION FOR 66050

PHS030M1

REID A 1M

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 S	21	02			01	126	21	1271	15.025				
2	2 S		02			01				15.025				
3	2 S		02			01				15.025				
4	2 F	24	02			01	256	24	1271	15.025				
5	2 F	31	02			01	496	31	1271	15.025				
6	2 F	30	02			01	249	30	1271	15.025				
7	2 F	31	02			01	875	31	1249	15.025				
8	2 F	31	02			01	913	31	1249	15.025				
9	2 F	30	02			01	1681	30	1249	15.025				
10	2 F	31	02			01	1977	31	1249	15.025				
11	2 F					01	1590		1249	15.025				
12														

PF6 - RETURNS TO ANNUAL DISPLAY

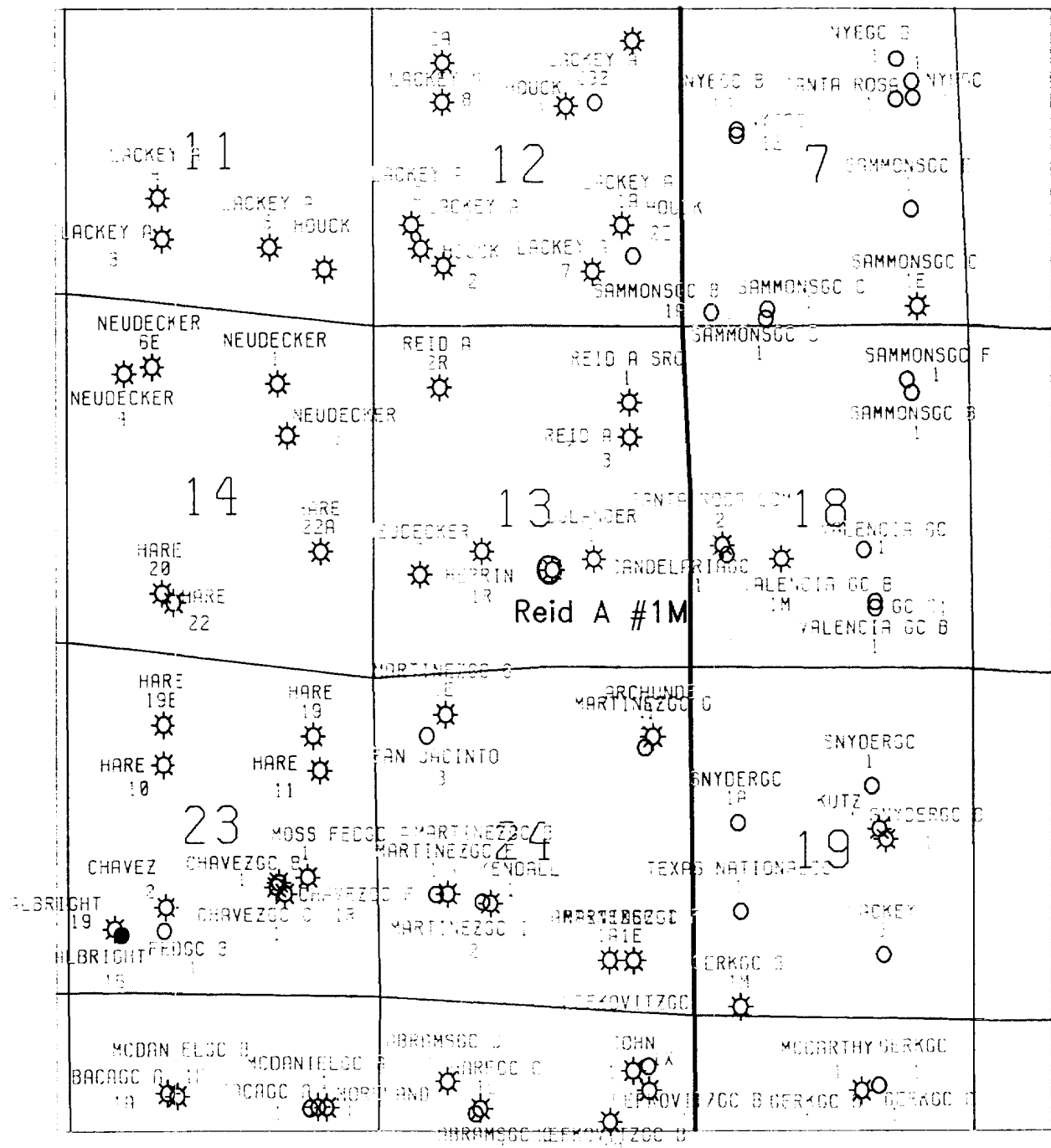
PF3 - TRANSFER TO UPDATE

PF10 - HELP INFORMATION

PF9 - DISPLAY MONTHLY INJECTION

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

PRS 01/06/99



Reid A #1M
Sec 13, T29N, R10W
Mesa Verde/Dakota

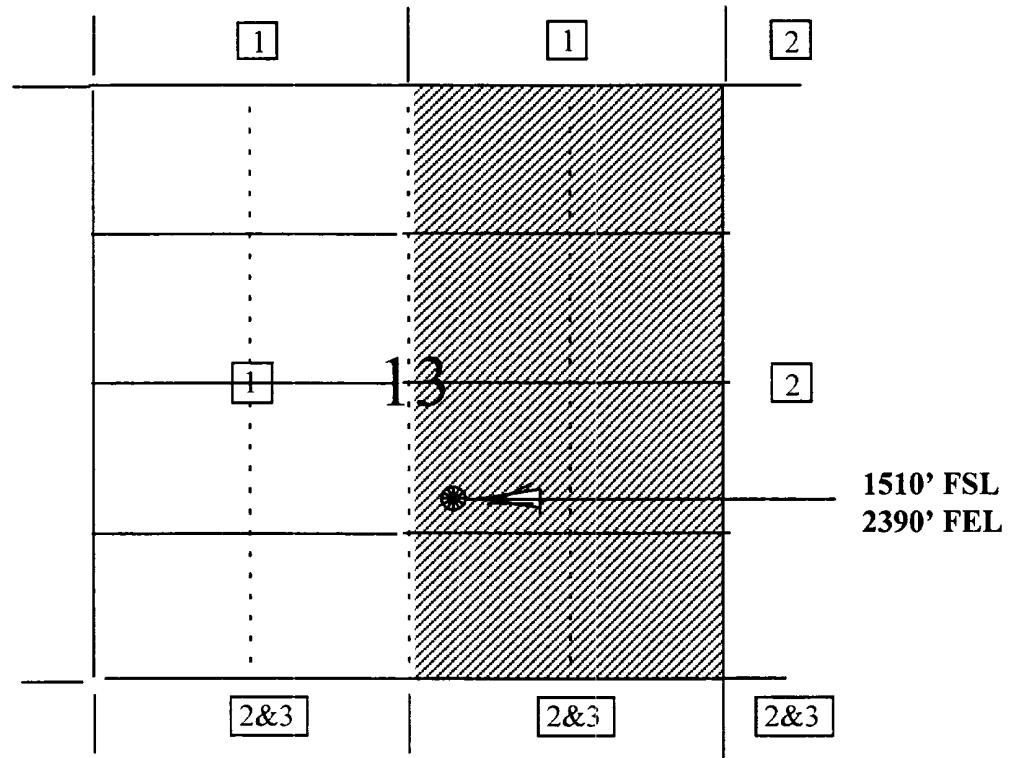
BURLINGTON RESOURCES OIL AND GAS COMPANY

Reid A #1M

**OFFSET OPERATOR \ OWNER PLAT
Downhole Commingle**

Mesaverde / Dakota Formations Well

Township 29 North, Range 10 West



1) Burlington Resources
2) Amoco Production Company
San Juan Operation Center
200 Amoco Court
Farmington, NM 87401

3) Cross Timbers Oil Company
6001 US Highway 63
Bloomfield, NM 87413