

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

Huerfano Unit

103 N. Sec. 3, T26N, R09W

San Juan

Lease

Well No.

Unit Ltr. - Sec - Twp - Rge

County

Spacing Unit Lease Types: (check 1 or more)

OGRID NO. 14538 Property Code 7138 API NO. 30-045-0626100 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	Ballard Pictured Cliffs-72359		Basin Dakota-71599
2. Top and Bottom of Pay Section (Perforations)	2081'-2119'		6426'-6618'
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. 150 psia @ 2100'		a. 701 psia @ 6522'
	(Original) b. 758 psia @ 2100'	b.	b. 2589 psia @ 6522'
6. Oil Gravity (API) or Gas BTU Content	1024 Btu		1162 Btu
7. Producing or Shut-In?	Producing		Shut-in
Production Marginal? (yes or no)	Yes		No
* 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: 12/31/93 Rates: 0.8 MCFD, 0 BOD, 0 Water
* If Producing, give data and oil/gas/water of recent test (within 60 days)	Date: 10/31/98 Rates: 258 MCFD, 0 BOD, 0 Water	Date: Rates:	Date: Rates:
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 ☐ 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). _____

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

District I
PO Box 1980, Hobbs, NM 88241-1980
District II
PO Drawer DD, 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 30-045-11704		Pool Code 71439/71599	Pool Name Ballard Pictured Cliffs/Basin Dakota
Property Code 7138	Property Name Huerfanito Unit		Well Number 103
OGRID No. 14538	Operator Name MERIDIAN OIL INC.		Elevation 6319'

10 Surface Location

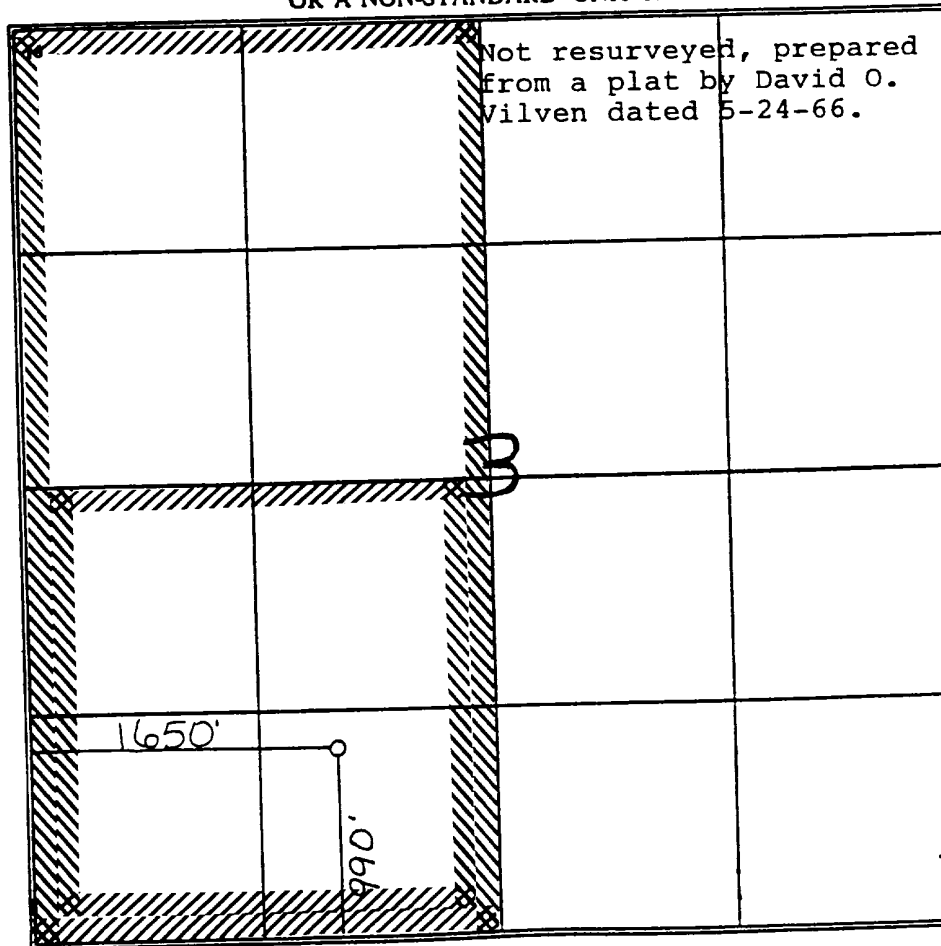
UL or lot no. N	Section 3	Township 26 N	Range 9 W	Lot Ida	Feet from the 990	North/South line South	Feet from the 1650	East/West line West	County S.J.
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11 Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Ida	Feet from the	North/South line	Feet from the	East/West line	County
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12 Dedicated Acres 160-W/320	13 Joint or Infill 89	14 Consolidation Code	15 Order No.
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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



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
10-24-95
Date

18 SURVEYOR CERTIFICATION

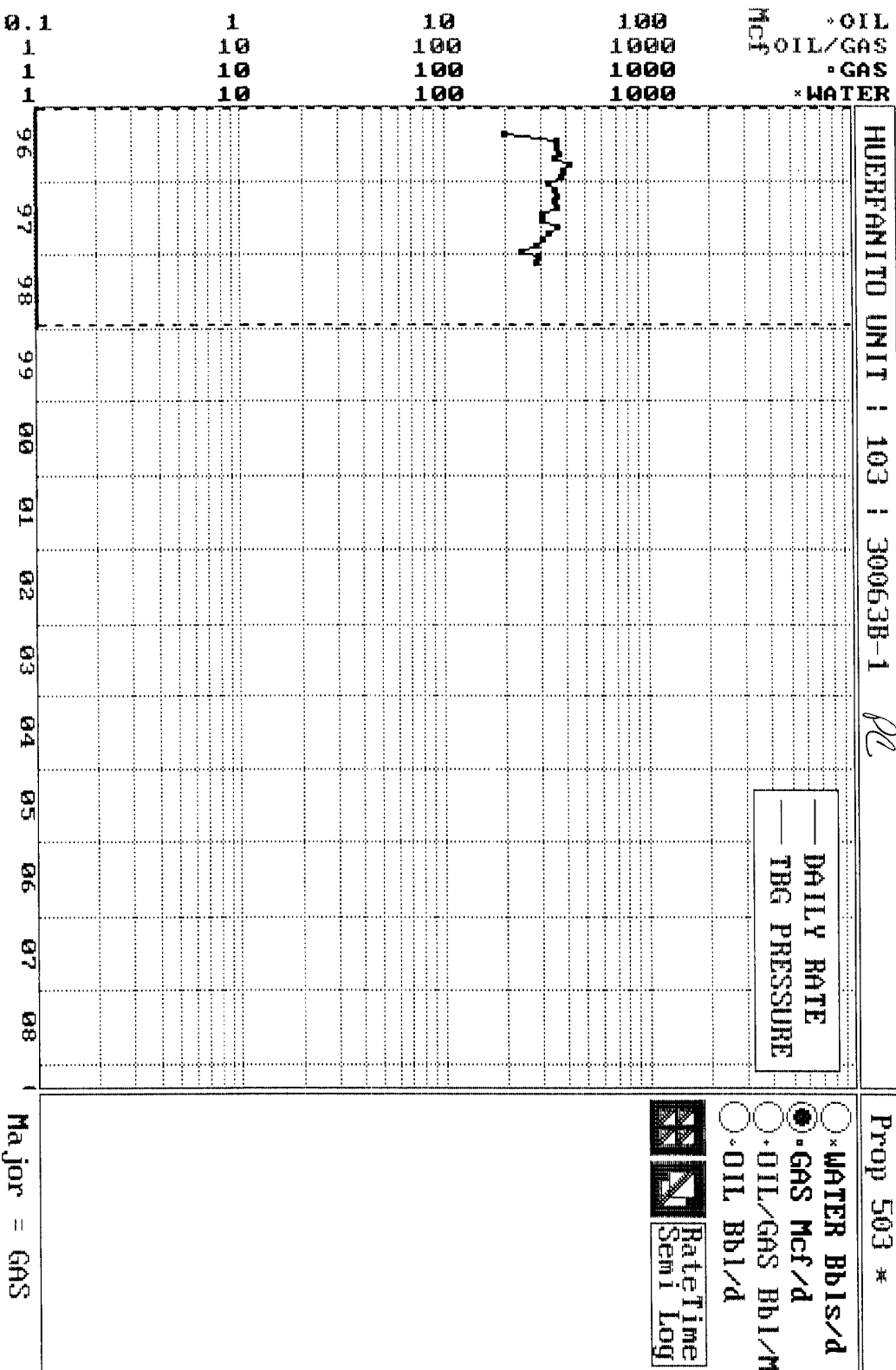
I hereby certify that the well location shown on this plat
was plotted from field notes of actual surveys made by me
or under my supervision, and that the same is true and
correct to the best of my belief.

10-23-95
Date of Survey

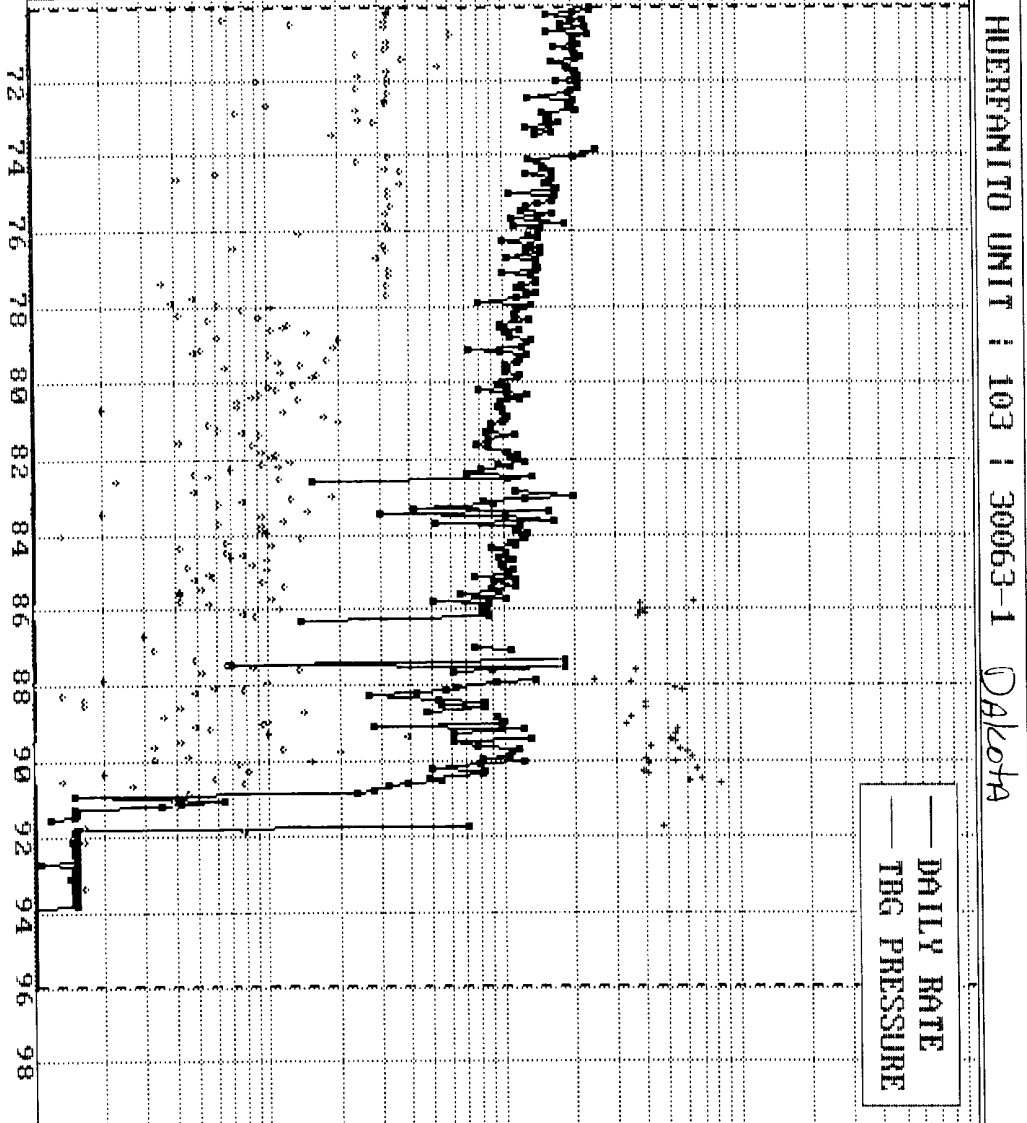
Signature and Seal of Professional Surveyor

NEHE C. EDWARDS
NEW MEXICO
8857
Certificate Number

Pictured C1.fhs



0.1	1	10	100	* OIL
0.001	0.01	0.1	1	* WATER/GAS
1	10	100	1000	* GAS
1	10	100	1000	* WATER



Prop 139

- ☐ * WATER Bbls/d
- ☒ * GAS Mcf/d
- ☐ * WATER/GAS
- ☐ * OIL Bbl/d
- ☒ Rate Time
- ☒ Semi Log

Major = GAS

Offset DK Well for Huertanito #103
SEC 10, Unit B, T26N, R9W

Page No.: 2
Print Time: Thu Mar 11 13:21:21 1999
Property ID: 528
Property Name: HUERTANITO UNIT | 80 | 30045-1
Table Name: Q:\PUBLIC\GENTILITY\GDPNOS\TEST.DBF

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

07/24/65	0	2092.0
09/02/65	0	2079.0
11/07/66	117000	1217.0
06/19/67	201000	955.0
05/28/68	299000	888.0
06/11/70	475030	796.0
08/17/71	558233	744.0
06/08/72	618441	657.0
05/02/73	682122	629.0
04/22/75	796374	663.0
06/14/77	908575	657.0
07/05/79	1014951	579.0
06/10/81	1103781	602.0
10/26/83	1191483	631.0
01/20/86	1278464	591.0
10/03/88	1340631	660.0
04/22/90	1395130	632.0
06/30/92	1441787	605.0

11/30/98 1660524 578 *Original*
CURRENT
BASED ON PRESSURE VS CUM GAS CURVE

Offset PC well for Huerfano Unit #103
Unit 0, Sec 3, T26N R9W

Page No.: 1
Print Time: Thu Mar 11 13:21:19 1999
Property ID: 512
Property Name: HUERFANITO UNIT | 21 | 49308A-1
Table Name: Q:\PUBLIC\GENTITY\GDPNOS\TEST.DBF

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

06/27/55	0	655.0
07/15/55	0	654.0
12/08/55	13000	466.0
08/15/56	38000	394.0
04/16/57	63000	361.0
07/15/58	98000	427.0
04/06/59	115000	330.0
04/06/60	136000	326.0
04/05/61	157000	307.0
04/19/62	179000	299.0
02/01/63	193000	294.0
02/12/64	210000	293.0
01/29/65	224000	296.0
02/01/66	238000	276.0
06/19/67	258000	268.0
05/28/68	269000	266.0
06/11/70	295604	230.0
08/17/71	310984	203.0
06/08/72	321102	198.0
05/02/73	331080	198.0
11/22/83	435239	204.0
08/29/85	458752	191.0

10/31/98 633235 131 *Original*
CURRENT
BASED ON PRESSURE VS CUM GAS CURVE

Huerfanito Unit #103
Bottom Hole Pressures
Flowing and Static BHP
Cullender and Smith Method
Version 1.0 3/13/94

Pictured Cliffs		Dakota	
<u>PC-Current</u>		<u>DK-Current</u>	
GAS GRAVITY	0.593	GAS GRAVITY	0.706
COND. OR MISC. (C/M)	M	COND. OR MISC. (C/M)	M
%N2	0.2	%N2	0.48
%CO2	1.33	%CO2	0.93
%H2S	0	%H2S	0
DIAMETER (IN)	4.052	DIAMETER (IN)	4.052
DEPTH (FT)	2100	DEPTH (FT)	6522
SURFACE TEMPERATURE (DEG F)	60	SURFACE TEMPERATURE (DEG F)	60
BOTTOMHOLE TEMPERATURE (DEG F)	88	BOTTOMHOLE TEMPERATURE (DEG F)	146
FLOWRATE (MCFPD)	0	FLOWRATE (MCFPD)	0
SURFACE PRESSURE (PSIA)	143	SURFACE PRESSURE (PSIA)	590
BOTTOMHOLE PRESSURE (PSIA)	149.5	BOTTOMHOLE PRESSURE (PSIA)	700.8
<u>PC-Original</u>		<u>DK-Original</u>	
GAS GRAVITY	0.73	GAS GRAVITY	0.706
COND. OR MISC. (C/M)	M	COND. OR MISC. (C/M)	M
%N2	0.89	%N2	0.48
%CO2	0.74	%CO2	0.93
%H2S	0	%H2S	0
DIAMETER (IN)	4.95	DIAMETER (IN)	4.95
DEPTH (FT)	4431	DEPTH (FT)	6558
SURFACE TEMPERATURE (DEG F)	60	SURFACE TEMPERATURE (DEG F)	60
BOTTOMHOLE TEMPERATURE (DEG F)	119	BOTTOMHOLE TEMPERATURE (DEG F)	148
FLOWRATE (MCFPD)	0	FLOWRATE (MCFPD)	0
SURFACE PRESSURE (PSIA)	667	SURFACE PRESSURE (PSIA)	2104
BOTTOMHOLE PRESSURE (PSIA)	757.8	BOTTOMHOLE PRESSURE (PSIA)	2589.4

FARMINGTON

ANNUAL PRODUCTION FOR 30063

PHS020M1

HUERFANITO UNIT 103

BASIN DAKOTA (PRORATED GAS) FIELD

DAKOTA ZONE

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

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

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

PC DATE

BBLs

PC DATE

MCF

DATE

BBLs

02 6912

4360

01 6912

329908

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=====
YEAR      OIL      OIL CUM      GAS      GAS CUM      WATER      WATER CUM
1990      172      12239      19654      1201346      9          40
1991      41       12280      2883       1204229      1          41
1992      7        12287      544        1204773      1          41
1993      7        12294      489        1205262      1          41
1994              12294              1205262      1          41
1995              12294              1205264      1          41
1996              12294              1205264      1          41
1997              12294              1205264      1          41
1998              12294              1205264      1          41
=====

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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

00/00/00 00:00:00:0 D03 09/02/89

FARMINGTON

1993 MONTHLY PRODUCTION FOR 30063

PHS030M1

HUERFANITO UNIT 103

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		31	02			01	47	31	1246	15.025			0
2	2		28	02			01	43	28	1246	15.025			0
3	2		31	02			01	47	31	1246	15.025			0
4	2		30	02			01	46	30	1246	15.025			0
5	2		31	02		5	01	47	31	1246	15.025			0
6	2		30	02			01	46	30	1246	15.025			0
7	2		31	02			01	47	31	1246	15.025			0
8	2		31	02			01	47	31	1246	15.025			0
9	2		30	02			01	46	30	1246	15.025			0
10	2		31	02			01	47	31	1246	15.025			0
11	2		18	02		1	01	26	18	1246	15.025			0
12	2			02		1	01			1246	15.025			0

PF6 - RETURNS TO ANNUAL DISPLAY

PF3 - TRANSFER TO UPDATE

PF10 - HELP INFORMATION

PF9 - DISPLAY MONTHLY INJECTION

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

P12 10/05/94

FARMINGTON

ANNUAL PRODUCTION FOR 30063B

PHS020M1

HUERFANITO UNIT 103

BALLARD PICTURED CLIFFS (GAS) FIELD

ICTURED CLIFFS 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
1996                      86981      86981
1997                      118823     205804
1998                      69959      275763
=====
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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 30063B
 HUERFANITO UNIT 103
 BALLARD PICTURED CLIFFS (GAS) FIELD PICTURED CLIFFS ZONE

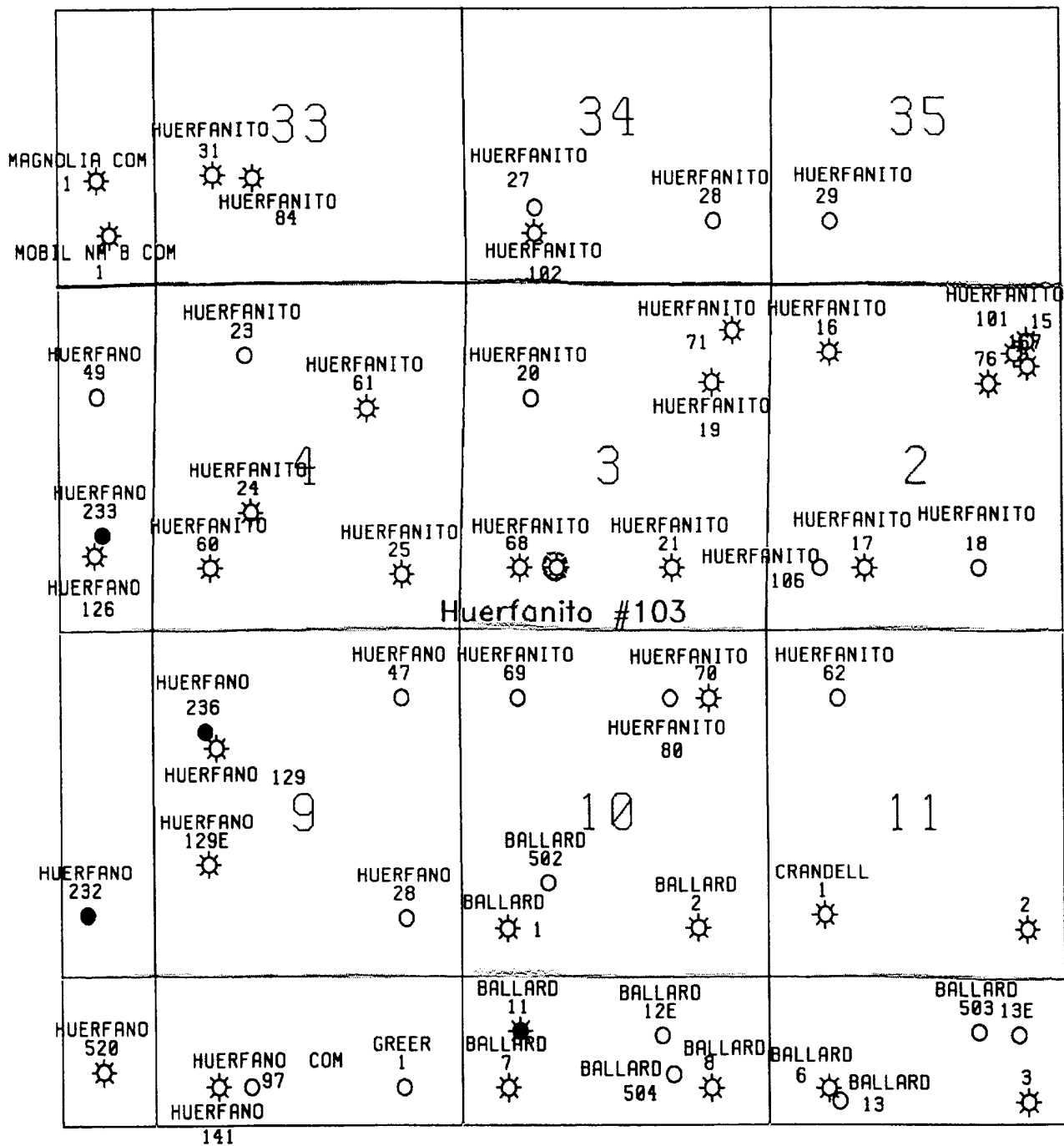
PHS030M1

DAYS =====			OIL =====		=====		GAS =====						
MO	T	S	ON	PC	PROD	GRV	PC	PROD	ON	BTU	PRESS	WATER PROD	C
1	2	F					01	9005	31	1022	15.025		
2	2	F					01	8623	28	1022	15.025		
3	2	F					01	8883	31	1022	15.025		
4	2	F					01	6135	30	1022	15.025		
5	2	F					01	8928	31	1023	15.025		
6	2	S					01	23	1	1023	15.025		
7	2	F					01	5483	24	1023	15.025		
8	2	F					01	6279	23	1023	15.025		
9	2	F					01	8585	30	1023	15.025		
10	2	F					01	8015	31	1023	15.025		
11													
12													

PF6 - RETURNS TO ANNUAL DISPLAY
 PF10 - HELP INFORMATION

PF3 - TRANSFER TO UPDATE
 PF9 - DISPLAY MONTHLY INJECTION
 PRS 12/05/98

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



Huerfanito #103
Sec 3, R26N, T9W
Pictured Cliff/Dakota