

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

Huerfanito Unit

#87

K 1-26-9

San Juan, New Mexico

Lease

Well No.

Unit Ltr. - Sec - Twp - Rge

County

Spacing Unit Lease Types: (check 1 or more)

OGRID NO. 14538 Property Code 7137 API NO. 30-045-06023 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)	4240' - 4274'		6288' - 6478'
3. Type of production (Oil or Gas)	Gas		Gas
4. Method of Production (Flowing or Artificial Lift)	Flowing		Flowing
5. Bottomhole Pressure (Current)	a. 301 psia	a.	Measured
Oil Zones - Artificial Lift: Estimated Current	(Original)		a. 258 psia
Gas & Oil - Flowing: Measured Current	b. 1348 psia	b.	b. 2488 psia
All Gas Zones: Estimated or Measured Original			
6. Oil Gravity ($^{\circ}$ API) or Gas BTU Content	1330		1233
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: 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: 4/98 Rates: 1.0 BOD / 195 MCFD	Date: Rates:	Date: 4/98 Rates: 0.2 BOD / 60 MCFD
8. Fixed Percentage Allocation Formula - % for each zone (total of %'s to equal 100%)	Oil: Gas: will be supplied upon completion	Oil: % Gas: %	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 ☐ 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. NMOC 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 Production Engineer DATE 05-09-98TYPE OR PRINT NAME Kevin Midkiff TELEPHONE NO. (505) 326-9700

MEXICO OIL CONSERVATION COMMISSION
WELL LOCATION AND ACREAGE DEDICATION PLAT

Form C-102
Supersedes C-
Effective 1-1-

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

Operator EL PASO NATURAL GAS COMPANY			Lease HUERFANITO UNIT		Well No. 87 (MD)
Unit Letter K	Section 1	Township 26 North	Range 9 West	County San Juan	
Actual Footage Location of Well: 1550 feet from the South line and 1750 feet from the West line					
Ground Level Elev. 6147	Producing Formation Mesa Verde-Dakota		Pool Blanco Mesa Verde Ext.- Basin Dakota	Dedicated Acreage: 320. (MV) 320 (Dak.)	

- Outline the acreage dedicated to the subject well by colored pencil or hatchure marks on the plat below.
- If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).
- 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 Unitization

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

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

RECEIVED

MAR 31 1965

U. S. GEOLOGICAL SURVEY
FARMINGTON, N. M.

CERTIFICATION

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

ORIGINAL SIGNED E. S. OBERL

Name

Petroleum Engineer

Position

El Paso Natural Gas Company

March 31, 1965

Date

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

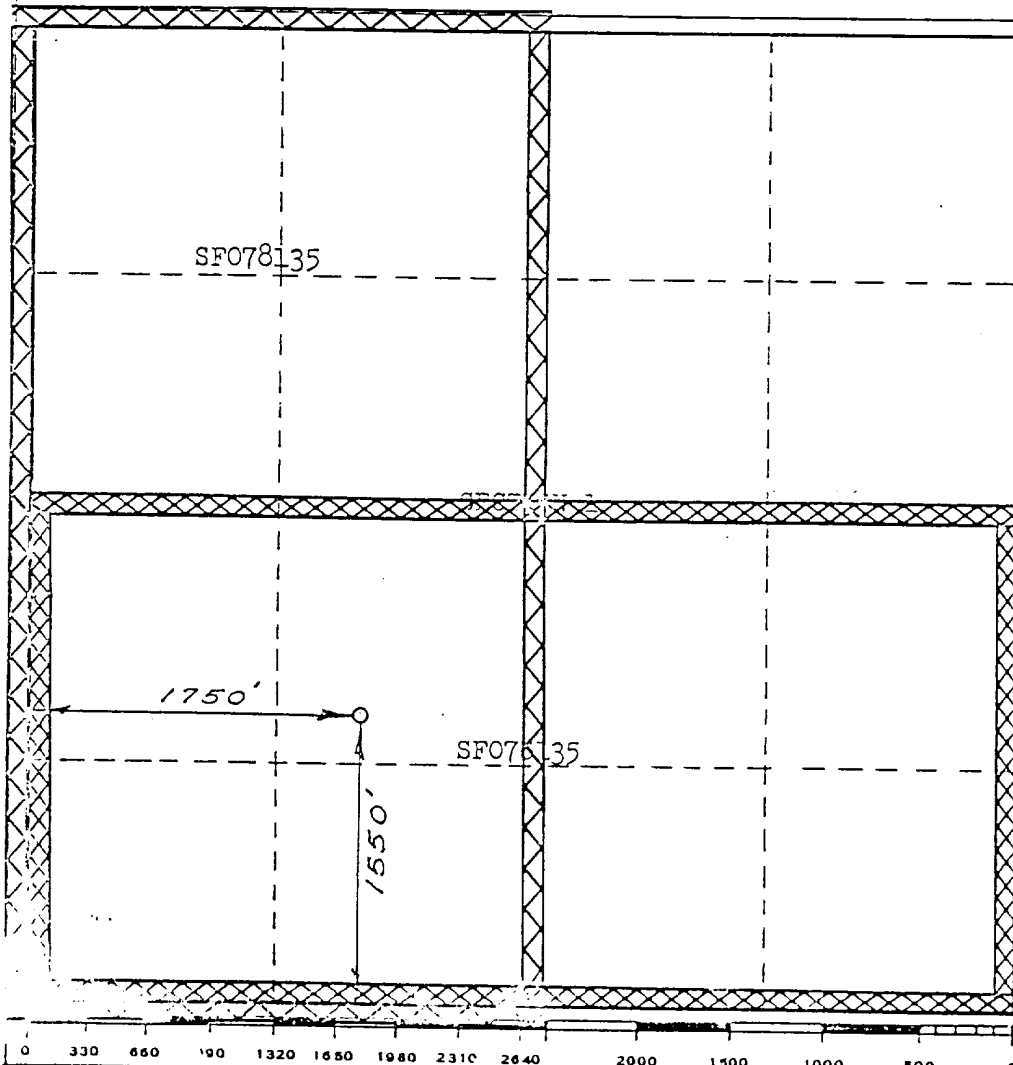
March 4, 1965

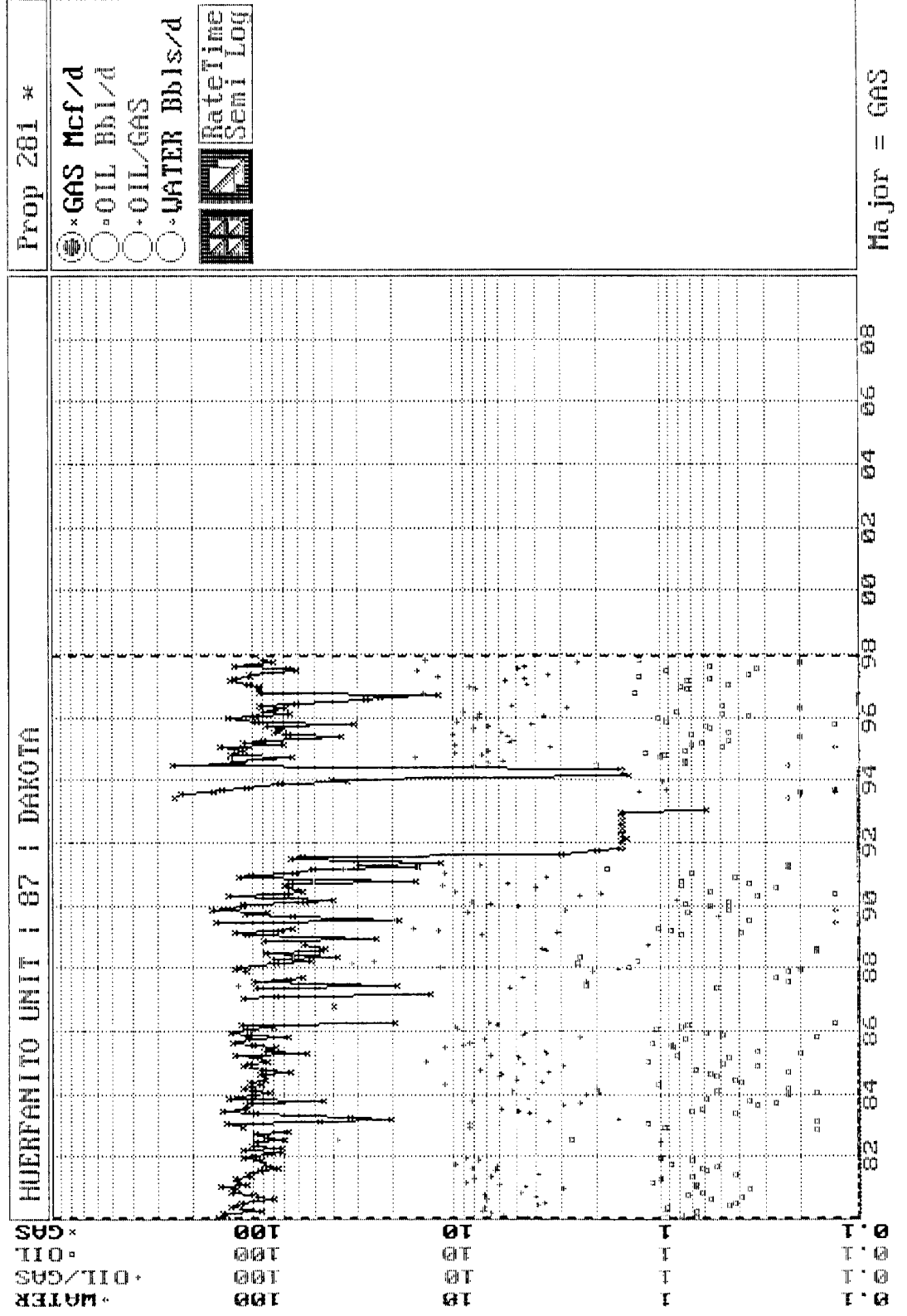
Registered Professional Engineer
and/or Land Surveyor

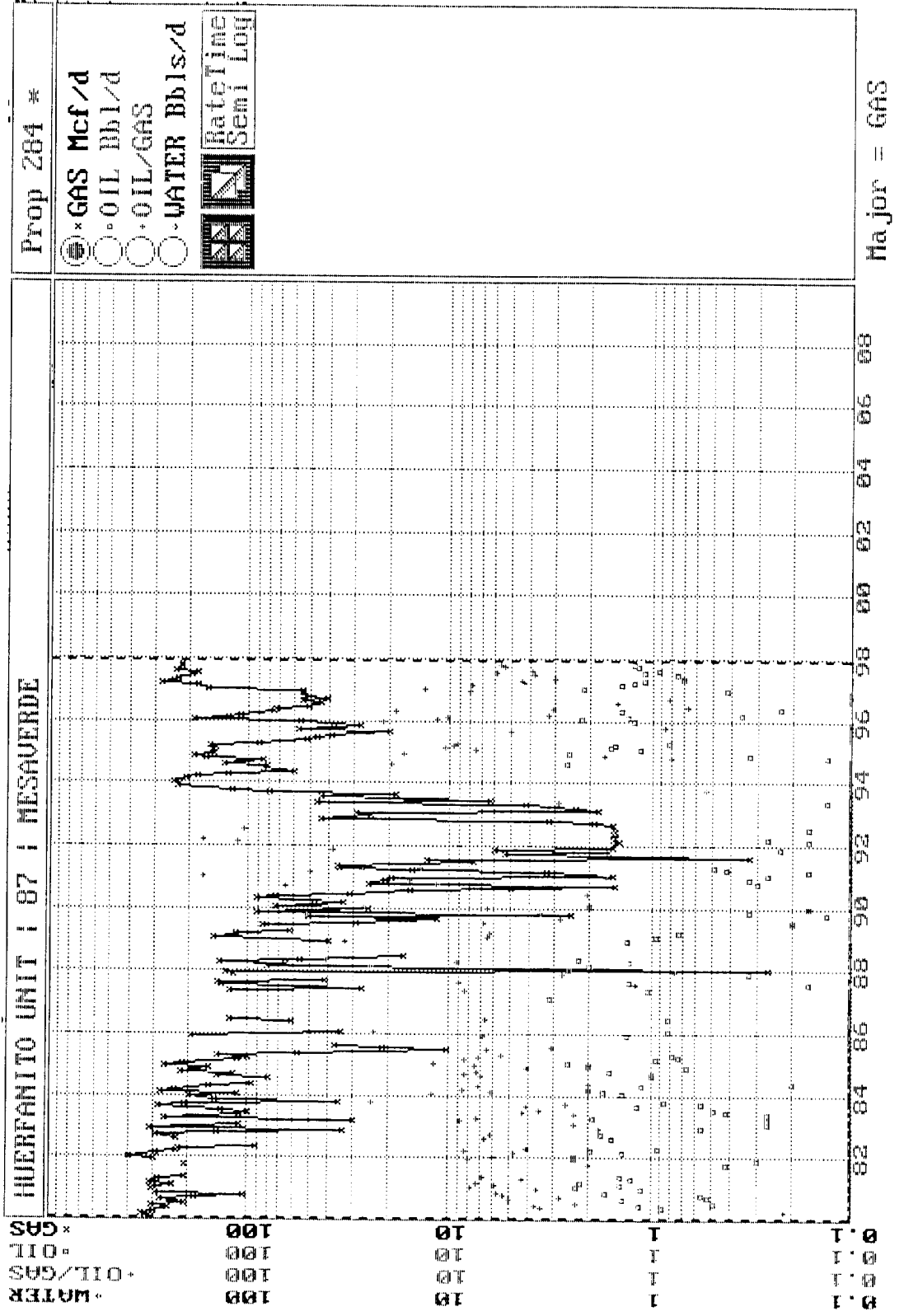
Paul J. Oberl

Certificate No.

1760







Huerfanito Unit #87
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	0.793	GAS GRAVITY	0.731
COND. OR MISC. (C/M)	C	COND. OR MISC. (C/M)	C
%N2	1.08	%N2	0.20
%CO2	0.54	%CO2	1.27
%H2S	0	%H2S	0
DIAMETER (IN)	5.5	DIAMETER (IN)	2.375
DEPTH (FT)	4257	DEPTH (FT)	6383
SURFACE TEMPERATURE (DEG F)	60	SURFACE TEMPERATURE (DEG F)	60
BOTTOMHOLE TEMPERATURE (DEG F)	129	BOTTOMHOLE TEMPERATURE (DEG F)	163
FLOWRATE (MCFPD)	0	FLOWRATE (MCFPD)	0
SURFACE PRESSURE (PSIA)	267	SURFACE PRESSURE (PSIA)	220
BOTTOMHOLE PRESSURE (PSIA)	301.4	BOTTOMHOLE PRESSURE (PSIA)	258.1
<u>MV-Original</u>		<u>DK-Original</u>	
GAS GRAVITY	0.793	GAS GRAVITY	0.731
COND. OR MISC. (C/M)	C	COND. OR MISC. (C/M)	C
%N2	1.08	%N2	0.20
%CO2	0.54	%CO2	1.27
%H2S	0	%H2S	0
DIAMETER (IN)	5.5	DIAMETER (IN)	2.375
DEPTH (FT)	4257	DEPTH (FT)	6383
SURFACE TEMPERATURE (DEG F)	60	SURFACE TEMPERATURE (DEG F)	60
BOTTOMHOLE TEMPERATURE (DEG F)	129	BOTTOMHOLE TEMPERATURE (DEG F)	163
FLOWRATE (MCFPD)	0	FLOWRATE (MCFPD)	0
SURFACE PRESSURE (PSIA)	1160	SURFACE PRESSURE (PSIA)	2030
BOTTOMHOLE PRESSURE (PSIA)	1347.8	BOTTOMHOLE PRESSURE (PSIA)	2488.7

Page No.: 1

Print Time: Wed Dec 24 14:16:36 1997

Property ID: 281

Property Name: HUERFANITO UNIT | 87 | DAKOTA

Table Name: S:\ARIES\1ROS\TEST.DBF

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

04/22/65	0	2030.0	<i>Original</i>
05/03/65	0	2017.0	
07/27/66	108000	1373.0	
02/20/67	198000	890.0	
01/30/68	339000	777.0	
02/17/69	468753	586.0	
06/04/70	601321	706.0	
07/09/71	697638	654.0	
07/03/72	782219	512.0	
05/02/73	846621	544.0	
06/25/75	975192	438.0	
06/06/77	1086030	423.0	
08/15/79	1189783	561.0	
06/10/81	1271187	350.0	
02/02/84	1356782	275.0	
06/10/85	1401625	521.0	
03/04/88	1463424	436.0	
04/09/90	1520836	343.0	
10/31/97	1693658	220.0	<i>Current Estimated From P/Z Data</i>

Page No.: 4

Print Time: Wed Dec 24 14:16:37 1997

Property ID: 284

Property Name: HUERFANITO UNIT | 87 | MESAVERDE

Table Name: S:\ARIES\1ROS\TEST.DBF

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

04/22/65	0	1160.0	Original
06/04/70	1346000	694.0	
07/09/71	1570107	649.0	
07/03/72	1843083	573.0	
05/02/73	2050028	525.0	
04/19/74	2248252	482.0	
05/18/76	2623954	422.0	
05/10/78	2917176	373.0	
05/28/80	3145523	361.0	
05/18/82	3290823	385.0	
01/02/85	3434555	327.0	
06/18/86	3461912	375.0	
09/07/89	3513201	392.0	
07/15/91	3534500	433.0	
11/29/93	3555367	291.0	
10/31/97	3735994	267.0	Current Estimated From P/Z Data

Package Preparation Volume Data

DPNo: 30027

HUERFANITO UNIT

87

Form: MV

Supt: 60 KEN RAYBON

FF: 337 STEVE FLOREZ

MS: 373 SHAWN FINCHER

Pipeline: EPNG

Plunger: No

Dual: Yes

Compressor: No

Ownership (No Trust)

Prior Year

Current Year

	Gas	Oil			Days			Days
				MCF/M	BOPM	On	MCF/M	BOPM
								On
GWI:	86.2081%	86.2081%	Jan	4,835	66.0	31	6,428	33.0
GNI:	71.3425%	71.8053%	Feb	5,451	43.0	28	5,617	22.0
			Mar	8,560	37.0	31	0	0.0
			Apr	7,412	33.0	30	0	0.0
			May	6,976	21.0	31	0	0.0
			Jun	5,918	23.0	26.1	0	0.0
			Jul	5,558	33.0	26.2	0	0.0
			Aug	7,084	28.0	31	0	0.0
			Sept	6,663	36.0	30	0	0.0
			Oct	6,587	37.0	30.3	0	0.0
			Nov	5,880	16.0	27.7	0	0.0
			Dec	6,397	29.0	31	0	0.0
			Total	77,321	402.0		12,045	55.0
Volumes								
(Days On)								
	MCFD	BOPD						
7 Day Avg	191	9.6						
30 Day Avg	195	1.0						
60 Day Avg	197	0.9						
3 Mo Avg	205	0.9						
6 Mo Avg	211	1.0						
12 Mo Avg	224	1.0						
Volumes								
(Days in Month)								
	MCFD	BOPD						
30 Day Avg	195	1.0						
60 Day Avg	197	0.9						
3 Mo Avg	205	0.9						
6 Mo Avg	206	0.9						
12 Mo Avg	217	1.0						

Print Form

Exit Volumes Data

4/28/1998

Package Preparation Volume Data

DPNo: 30052

HUERFANITO UNIT

87

Form: DK

Supt: 60 KEN RAYBON

FF: 337 STEVE FLOREZ

MS: 373 SHAWN FINCHER

Pipeline: EPNG

Plunger: No

Dual: Yes

Compressor: No

Ownership (No Trust)

Gas

Oil

GWl: 95.2909% 95.2909%

GNI: 77.3850% 78.2635%

Prior Year

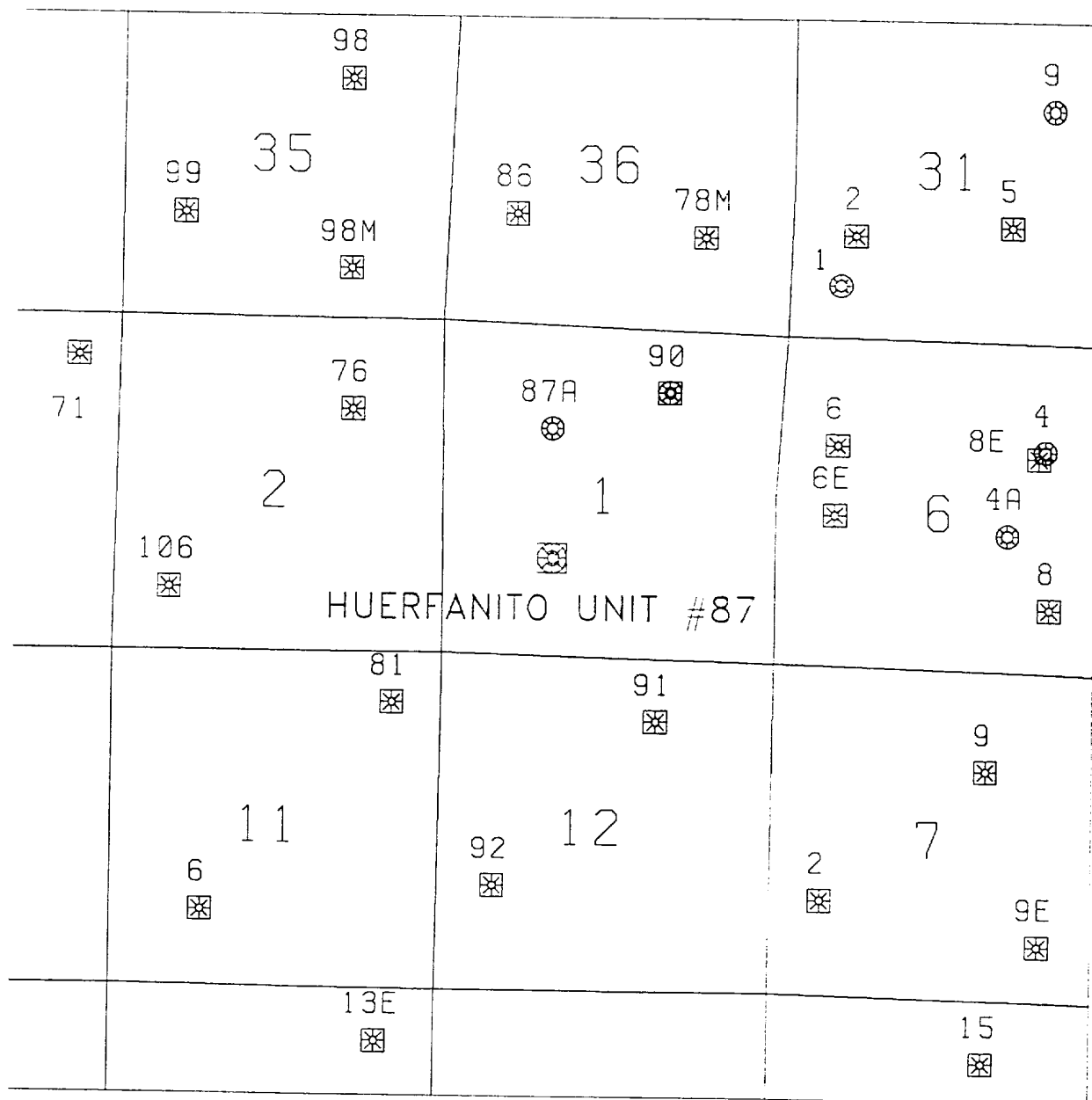
Current Year

<u>Gas</u>			<u>Oil</u>			<u>Days</u>			
<u>GWl:</u>	95.2909%	95.2909%		<u>MCF/M</u>	<u>BOPM</u>	<u>On</u>	<u>MCF/M</u>	<u>BOPM</u>	<u>On</u>
<u>GNI:</u>	77.3850%	78.2635%							
			Jan	3,197	14.0	31	2,192	11.0	31
			Feb	3,985	22.0	28	1,851	10.0	28
			Mar	3,829	17.0	31	0	0.0	31
			Apr	3,181	38.0	30	0	0.0	0
			May	3,194	11.0	31	0	0.0	0
			Jun	1,844	28.0	23.9	0	0.0	0
			Jul	2,046	10.0	26.2	0	0.0	0
			Aug	3,795	17.0	31	0	0.0	0
			Sept	2,402	6.0	30	0	0.0	0
			Oct	2,797	38.0	30.3	0	0.0	0
			Nov	2,394	8.0	25.7	0	0.0	0
			Dec	2,590	19.0	31	0	0.0	0
			Total	35,254	228.0		4,043	21.0	
<u>Volumes</u> <u>(Days On)</u>									
	<u>MCFD</u>	<u>BOPD</u>							
7 Day Avg	61	1.9							
30 Day Avg	60	0.2							
60 Day Avg	63	0.3							
3 Mo Avg	74	0.4							
6 Mo Avg	81	0.5							
12 MoAvg	92	0.6							
<u>Volumes</u> <u>(Days in Month)</u>									
	<u>MCFD</u>	<u>BOPD</u>							
30 Day Avg	60	0.2							
60 Day Avg	63	0.3							
3 Mo Avg	74	0.4							
6 Mo Avg	78	0.5							
12 Mo Avg	88	0.6							
			Print Form						
			Exit Volumes Data						

Print Form

Exit Volumes Data

4/28/1998



PLH 1/8/98

HUERFANITO UNIT #87

SEC. 1, T26N, R9W

MESAVERDE/DAKOTA

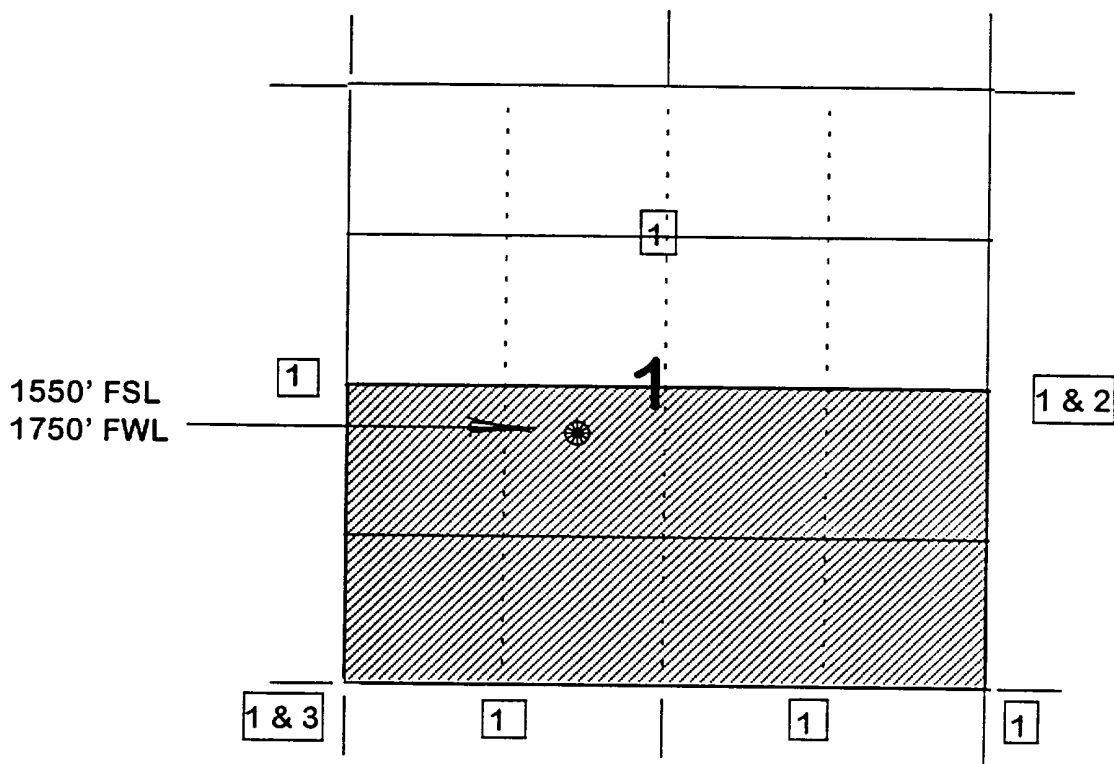
BURLINGTON RESOURCES OIL AND GAS COMPANY

Huerfanito Unit #87

OFFSET OPERATOR \ OWNER PLAT

Mesaverde / Dakota Formations Commingle Well

Township 26 North, Range 9 West



- 1) Burlington Resources
- 2) Taurus Exploration USA, Inc.
2101 6th Avenue North
Birmingham, Alabama 35203-2784
- 3) Dugan Production Corp.
P.O. Box 420
Farmington, NM 87499