

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

APPLICATION FOR DOWNHOLE COMMINGLING

EXISTING WELLBORE

☒ YES ☐ NO

Burlington Resources Oil and Gas

PO Box 4289, Farmington, NM 87499

Operator

McDurmitt

#1

Address

G 6-31N-12W

San Juan

Lease

Well No.

Unit Ltr. - Sec - Twp - Rge

County

Spacing Unit Lease Types: (check 1 or more)

OGRID NO. 14538 Property Code 7306 API NO. 30-045-11845

Federal ☒ State ☐ Fee ☒

The following facts are submitted in support of downhole commingling:	Upper Zone	Intermediate Zone	Lower Zone
1. Pool Name and Pool Code	Mesa Verde - 72319		Dakota - 71599
2. Top and Bottom of Pay Section (Perforations)	4698'-4909'		6862'-6982'
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 Original	(Current) a. 677 psi (see attachment) (Original) b. 1238 psi (see attachment)		a. 803 psi (see attachment) b. 2246 psi (see attachment)
6. Oil Gravity (°API) or Gas BTU Content	BTU 1138		BTU 1163
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: N/A Rates:		Date: N/A Rates:
* If Producing, give data and oil/gas/water of recent test (within 60 days)	Date: 5/1/98 Rates: 8.00 mcf/d 0.00 bopd		Date: 5/1/98 Rates: 3.00 mcf/d 0.00 bopd
8. Fixed Percentage Allocation Formula -% for each zone (total of %'s to equal 100%)	Will be supplied upon completion.		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. 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 Mary Ellen Lutey TITLE Production Engineer DATE 7/27/98TYPE OR PRINT NAME Mary Ellen Lutey TELEPHONE NO. (505) 326-9700

**NEW MEXICO OIL CONSERVATION COMMISSION
WELL LOCATION AND ACERAGE DEDICATION PLAT**

All distances must be from the outer boundaries of the Section

Operator EL PASO NATURAL GAS COMPANY		Lease MC DURMITT		Well No. 1 (MD)	
Unit Letter G	Section 6	Township 31-N	Range 12-W	County SAN JUAN	
Actual Footage Location of Well: 1770 feet from the NORTH line and 1650 feet from the EAST line					
Ground Level Elev 6050	Producing Formation MESAVERDE-DAKOTA		Pool BLANCO-MESAVERDE-&-BASIN DAK.	Dedicated Acreage: 312.76	Acres

1. Outline the acreage dedicated to the subject well by colored pencil or hatchure 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?

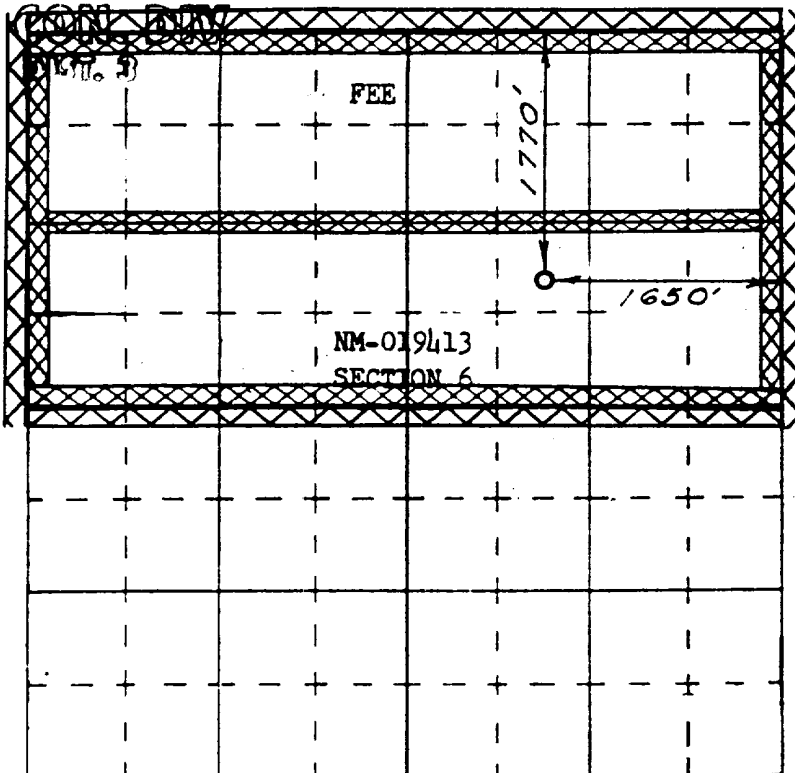
☒ Yes ☐ No If answer is "yes," type of consolidation: **Communitization**

If answer is "no," list the owners and tract descriptions which have actually 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.

RECEIVED
JUL 29 1966

OIL CON. DIV.



CERTIFICATION

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

Original Signed **F. H. WOOD**

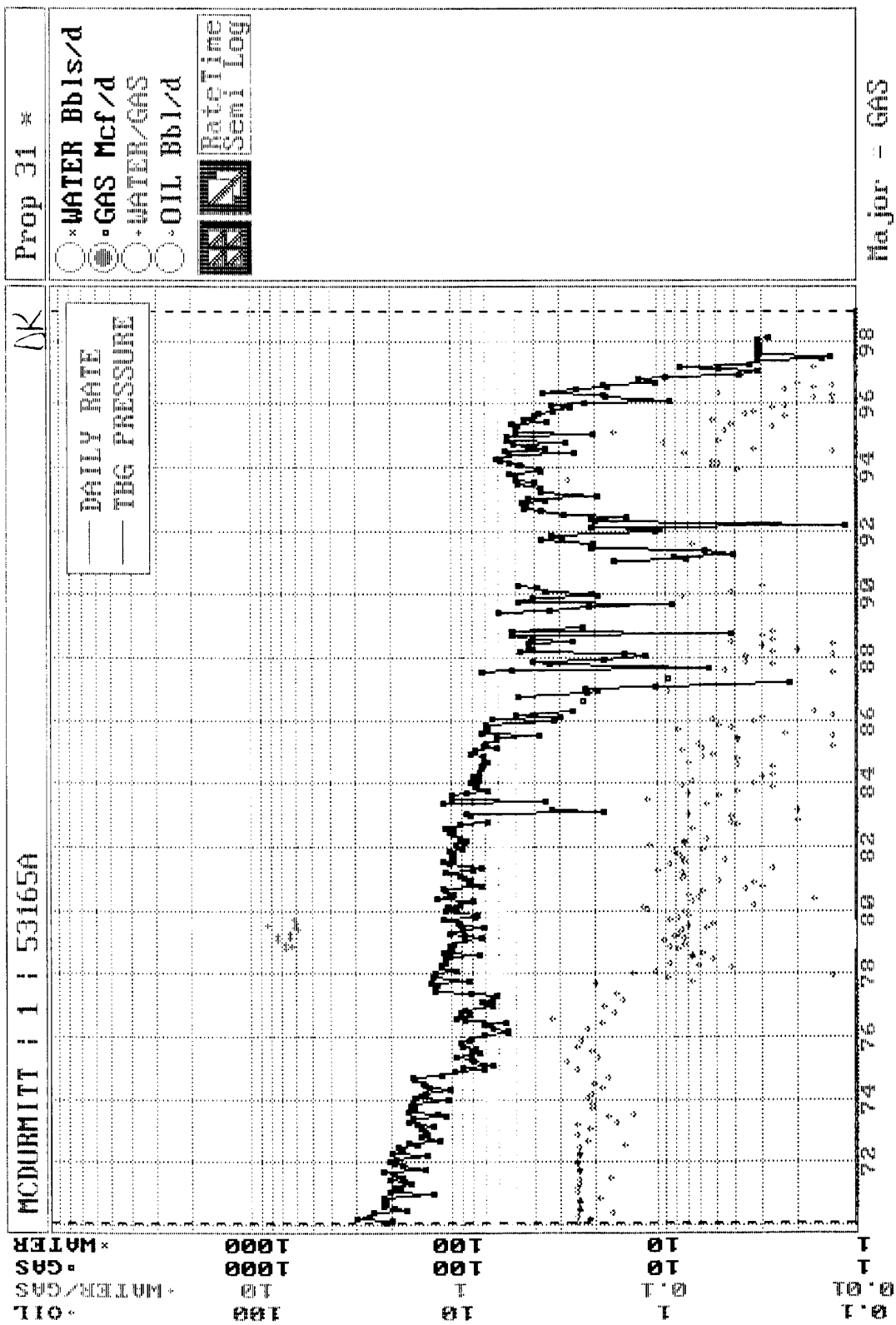
Name _____
Petroleum Engineer
 Position _____
El Paso Natural Gas Company
 Company _____
October 19, 1966
 Date _____

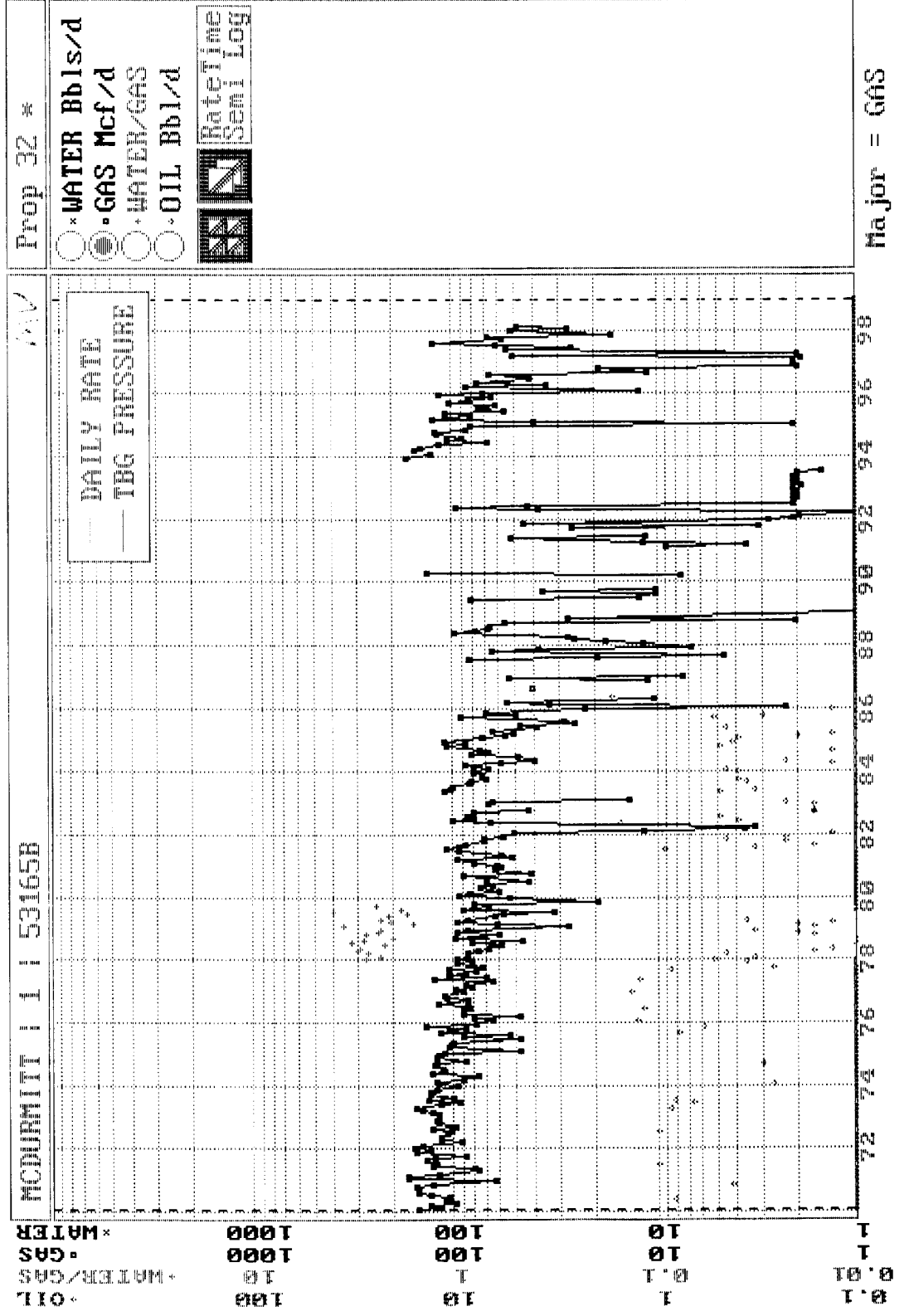
I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my knowledge and belief.

Date Surveyed _____
JULY 18, 1966
 Registered Professional Engineer
 and/or Land Surveyor
[Signature]
 Certificate No. **1760**

McDurrmitt #1
Bottom Hole Pressures
Flowing and Static BHP
Cullender and Smith Method
Version 1.0 1/14/98

Mesaverde		Dakota	
<u>MV-Current</u>		<u>DK-Current</u>	
GAS GRAVITY	<u>0.686</u>	GAS GRAVITY	<u>0.698</u>
COND. OR MISC. (C/M)	<u>C</u>	COND. OR MISC. (C/M)	<u>C</u>
%N2	<u>0.97</u>	%N2	<u>0.30</u>
%CO2	<u>1.77</u>	%CO2	<u>1.84</u>
%H2S	<u>0</u>	%H2S	<u>0</u>
DIAMETER (IN)	<u>7</u>	DIAMETER (IN)	<u>2.375</u>
DEPTH (FT)	<u>4803</u>	DEPTH (FT)	<u>6922</u>
SURFACE TEMPERATURE (DEG F)	<u>60</u>	SURFACE TEMPERATURE (DEG F)	<u>60</u>
BOTTOMHOLE TEMPERATURE (DEG F)	<u>155</u>	BOTTOMHOLE TEMPERATURE (DEG F)	<u>185</u>
FLOWRATE (MCFPD)	<u>0</u>	FLOWRATE (MCFPD)	<u>0</u>
SURFACE PRESSURE (PSIA)	<u>600</u>	SURFACE PRESSURE (PSIA)	<u>675</u>
BOTTOMHOLE PRESSURE (PSIA)	<u>676.5</u>	BOTTOMHOLE PRESSURE (PSIA)	<u>802.9</u>
<u>MV-Original</u>		<u>DK-Original</u>	
GAS GRAVITY	<u>0.686</u>	GAS GRAVITY	<u>0.69</u>
COND. OR MISC. (C/M)	<u>C</u>	COND. OR MISC. (C/M)	<u>C</u>
%N2	<u>0.97</u>	%N2	<u>0.30</u>
%CO2	<u>1.77</u>	%CO2	<u>1.84</u>
%H2S	<u>0</u>	%H2S	<u>0</u>
DIAMETER (IN)	<u>7</u>	DIAMETER (IN)	<u>2.375</u>
DEPTH (FT)	<u>4803</u>	DEPTH (FT)	<u>6922</u>
SURFACE TEMPERATURE (DEG F)	<u>60</u>	SURFACE TEMPERATURE (DEG F)	<u>60</u>
BOTTOMHOLE TEMPERATURE (DEG F)	<u>155</u>	BOTTOMHOLE TEMPERATURE (DEG F)	<u>185</u>
FLOWRATE (MCFPD)	<u>0</u>	FLOWRATE (MCFPD)	<u>0</u>
SURFACE PRESSURE (PSIA)	<u>1088</u>	SURFACE PRESSURE (PSIA)	<u>1850</u>
BOTTOMHOLE PRESSURE (PSIA)	<u>1237.9</u>	BOTTOMHOLE PRESSURE (PSIA)	<u>2246.0</u>





Page No.: 1

Print Time: Mon Jun 29 13:38:19 1998

Property ID: 31

Property Name: MCDURMITT | 1 | 53165A

Table Name: S:\ARIES\1998CMGA\TEST.DBF

--DATE--	--CUM_OIL--	---	CUM_GAS--	M	SIWHP
	Bbl		Mcf		Psi

12/07/66		0	1837.0
12/14/66		0	1850.0
06/23/67		70000	1351.0
01/16/68		133000	1292.0
07/09/70		344944	1054.0
05/25/71		403784	1030.0
07/06/72		481947	932.0
07/25/73		532710	950.0
04/02/75		612282	865.0
05/25/77		670392	797.0
05/07/79		747010	789.0
05/18/81		814734	785.0
06/01/83		875649	786.0
07/17/85		931625	711.0
12/18/85		0	1314.0
03/09/88		960121	718.0
04/22/90		986543	764.0
05/29/92		1002529	685.0
5/1/98		1050771	675

Page No.: 2

Print Time: Mon Jun 29 13:38:19 1998

Property ID: 32

Property Name: MCDURMITT | 1 | 53165B

Table Name: S:\ARIES\1998CMGA\TEST.DBF

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

12/14/66		0	1088.0
06/23/67		43000	757.0
07/03/68		100000	687.0
06/20/69		158000	624.0
04/20/70		197178	565.0
05/25/71		246026	467.0
07/06/72		298765	467.0
04/23/74		373843	402.0
04/28/76		443559	405.0
04/18/78		510000	405.0
08/05/80		565226	472.0
10/16/80		571515	452.0
05/17/82		607813	505.0
08/17/84		661798	437.0
10/08/89		731042	526.0
05/15/91		731266	562.0
08/13/91		742999	574.0
12/29/93		756890	637.0

5 113

857.2 637

FARMINGTON

1998 MONTHLY PRODUCTION FOR 53165A

PHS030M1

MCDURMITT 1

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 F	31	02			01	95	31		15.025		
2	2 F	28	02			01	85	28		15.025		
3	2 F	31	02			01	95	31		15.025		
4	2 F	30	02			01	92	30		15.025		
5	2 F	31	02			01	95	31		15.025		
6												
7												
8												
9												
10												
11												
12												

3.0645 mcf/d for May

PF6 - RETURNS TO ANNUAL DISPLAY

PF3 - TRANSFER TO UPDATE

PF10 - HELP INFORMATION

PF9 - DISPLAY MONTHLY INJECTION

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

PRS 07/03/98

FARMINGTON

1998 MONTHLY PRODUCTION FOR 53165B

PHS030M1

MCDURMITT 1

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					01	844	31	1170	15.025			
2	2	F					01	1480	28	1170	15.025			
3	2	F					01	64	31	1170	15.025			
4	2	F					01	405	30	1170	15.025			
5	2	F					01	251	31	1170	15.025			
6														
7														
8														
9														
10														
11														
12														

8,016 mcf for May

PF6 - RETURNS TO ANNUAL DISPLAY

PF3 - TRANSFER TO UPDATE

PF10 - HELP INFORMATION

PF9 - DISPLAY MONTHLY INJECTION

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

PRS 07/03/98

V. A. Johnston Family Trust
c/o Katherine Prewitt & Michael A. Chesser,
Co-Trustees
1402 Watts
P.O. Box 925
Ralls, TX 79357

Estate of James J. Johnston
Betty T. Johnston, Lyle E. Carbaugh &
Paul M. Hardwick, Independent Executor
2425 Fountainview #310
Houston, TX 77057

Orville C. Rogers
3840 West Bay Circle
Dallas, TX 75214

NationsBank, N.A.
Trust Minerals
P.O. Box 2546
Fort Worth, TX 76113-2546

*Interest owners for McDermitt #1,
DHC,*

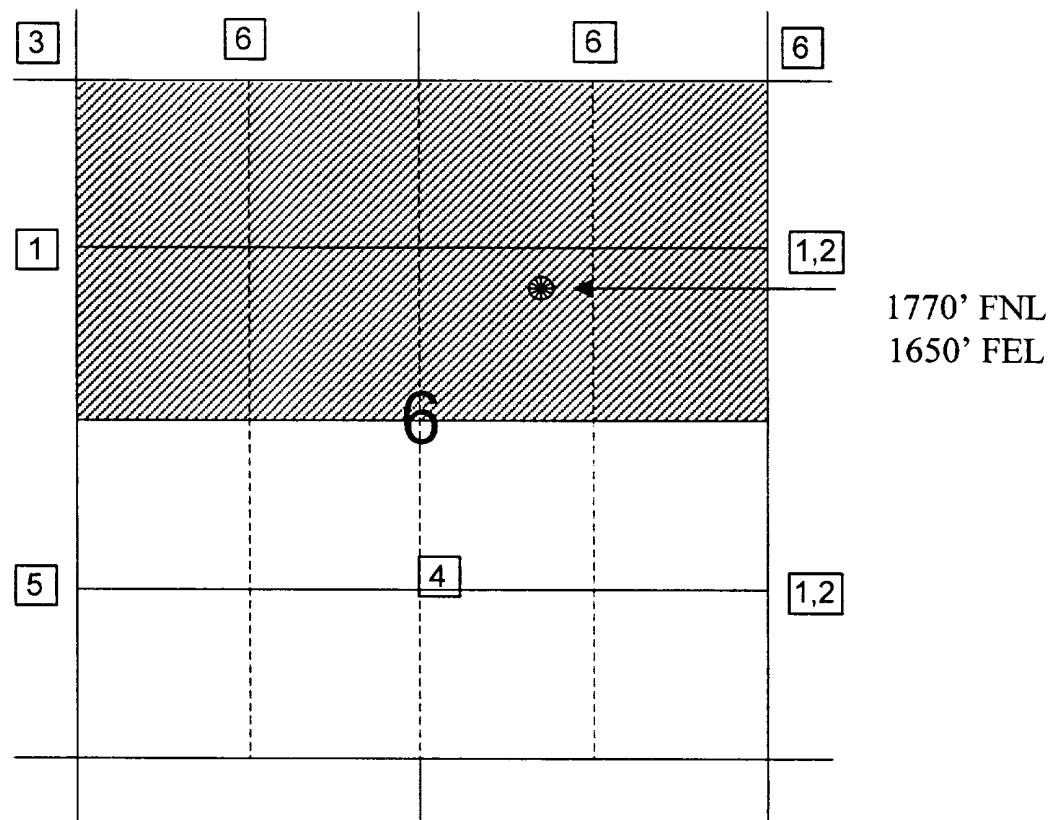
BURLINGTON RESOURCES OIL AND GAS COMPANY

McDurmitt #1

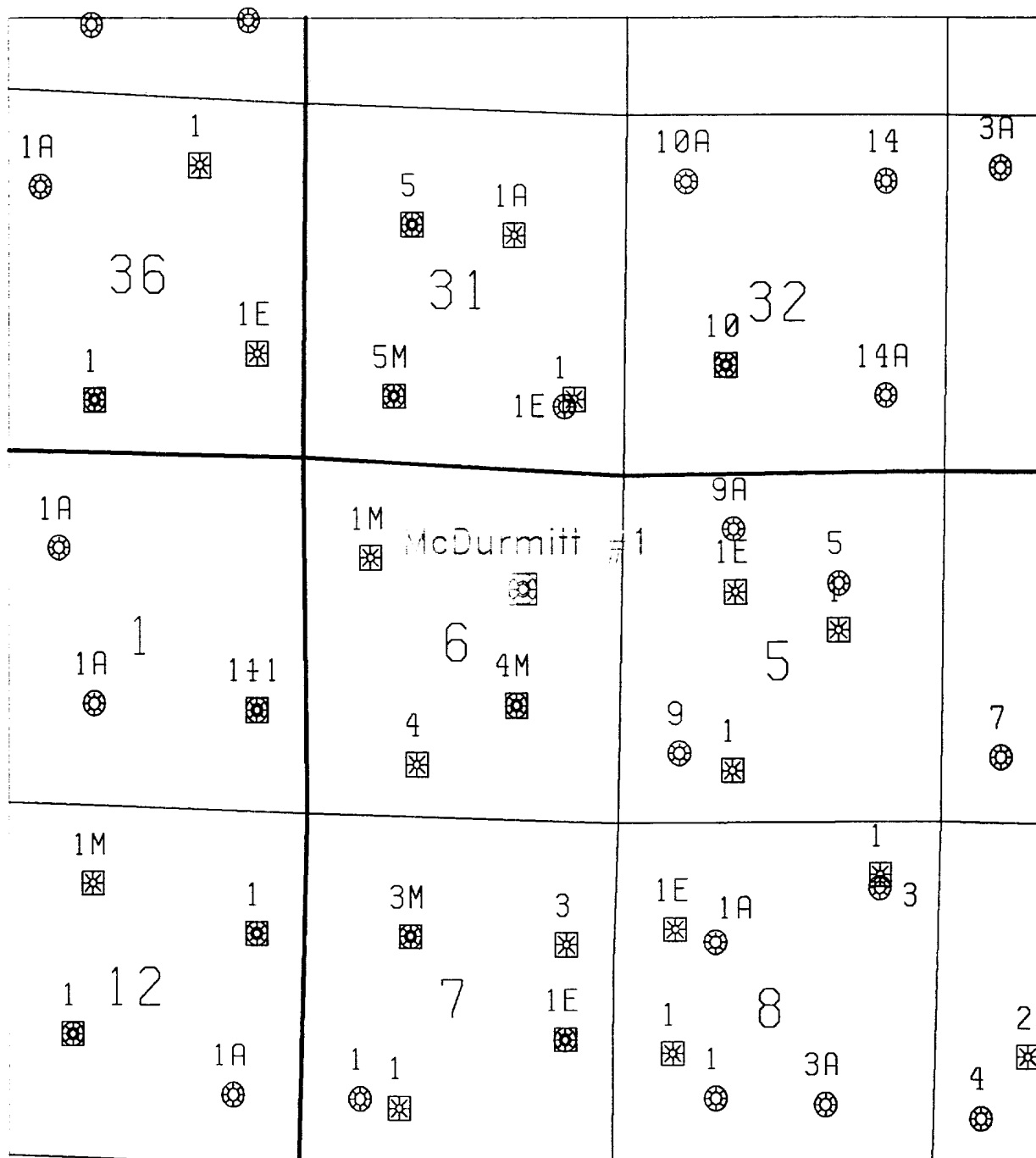
Offset Operator/Owner Plat

Mesaverde / Dakota Formations Commingle Well

Township 31 North, Range 12 West



- 1) Burlington Resources
- 2) Chateau Oil & Gas, Inc., 5950 Berkshire Lane, Ste. 275, Dallas, TX 75225
- 3) Texaco Exploration & Production, Inc., P.O. Box 2100, Denver, CO 80201
- 4) Taurus Exploration U.S.A., Attn: Rich Corcoran, 2198 Bloomfield Hwy., Farmington, NM 87401
- 5) Hallwood Petroleum Inc., 4582 S. Ulster Street Pkwy., Ste. 1700, Denver, CO 80237
- 6) Amoco Production Company, Attn: Steve Trevz, P.O. Box 800, 1670 Broadway, Denver, CO 80201



McDermitt #1
Sec. 6, T31N, R12W
Mesaverde/Dakota