

DATE IN 2/11/98	SUSPENSE 3/3/98	ENGINEER DC	LOGGED 1W	TYPE DHC
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ABOVE THIS LINE FOR DIVISION USE ONLY

NEW MEXICO OIL CONSERVATION DIVISION

- Engineering Bureau -

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

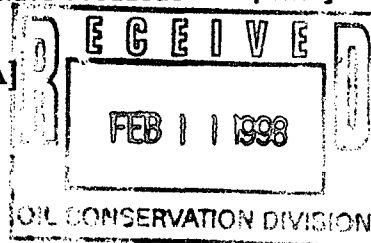
Check One Only for [B] and [C]

[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 Bradfield
 Print or Type Name

Signature

Regulatory/Compliance Administrator

Title

2/10/98
 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

Hubbell

#3E

H 18-29-10

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 7132 API NO. 30-045-23881 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)	3980' - 4653' (Proposed) Act. Provided at Completion		6448' - 6556'
3. Type of production (Oil or Gas)	Gas		Gas
4. Method of Production (Flowing or Artificial Lift)	Not currently completed		Flowing
5. Bottomhole Pressure Oil Zones - Artificial Lift: Estimated Current Gas & Oil - Flowing: Measured Current All Gas Zones: Estimated or Measured Original	(Current) a. 352 psia at 4317' (Original) b. 1314 psia at 4317'	a. b.	Measured a. 742 psia at 6502' b. 1554 psia at 6502'
6. Oil Gravity (°API) or Gas BTU Content			
7. Producing or Shut-In?	Awaiting Recompletion		Producing
Production Marginal? (yes or no)	Anticipated to be Yes		Yes
* If Shut-In and oil/gas/water rates of last production <small>Note: For new zones with no production history, applicant shall be required to attach production estimates and supporting data</small>	Date: N/A Rates:	Date: Rates:	Date: N/A Rates:
* If Producing, give data and oil/gas/water of recent test (within 60 days)	Date: Rates: N/A	Date: Rates:	Date: 1/27/97 Rates: 2.2 BOD 101 MCFD
	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. 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 Production Engineer DATE 01-29-98TYPE OR PRINT NAME Kevin Midkiff TELEPHONE NO. (505) 326-9700

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

Operator EL PASO NATURAL GAS COMPANY			Lease HUBBELL (SF-078716-A)		Well No. 3-E
Unit Letter H	Section 18	Township 29N	Range 10W	County San Juan	
Actual Footage Location of Well: 1540 feet from the North line and 1020 feet from the East line					
Ground Level Elev. 5619	Producing Formation DAKOTA/MESAVERDE		Pool BLANCO MESAVERDE BASIN DAKOTA	Dedicated Acreage: 320.85 Acres	

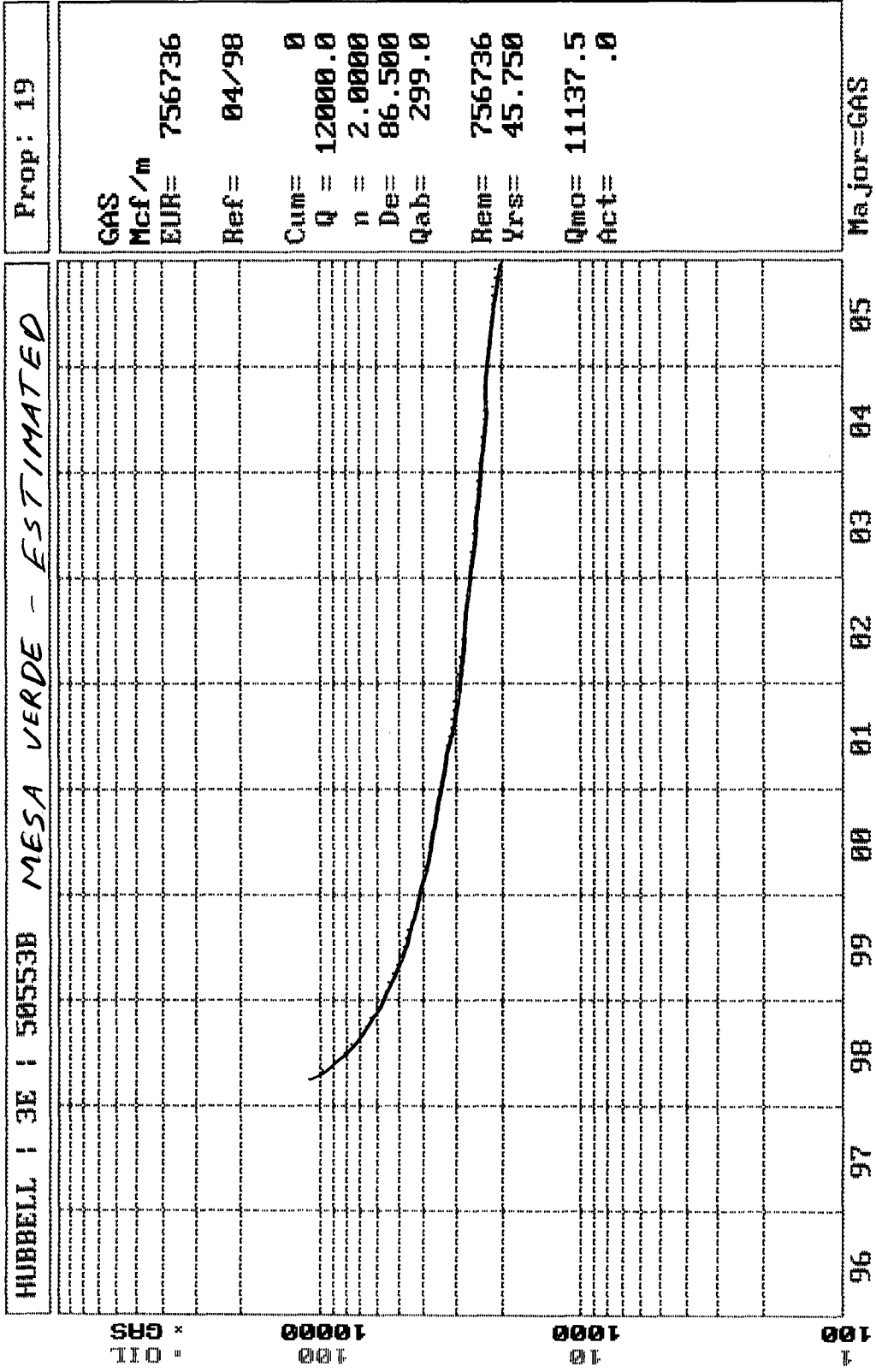
1. Outline the acreage dedicated to the subject well by colored pencil or hachure marks on the plat below.
2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).
3. If more than one lease of different ownership is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

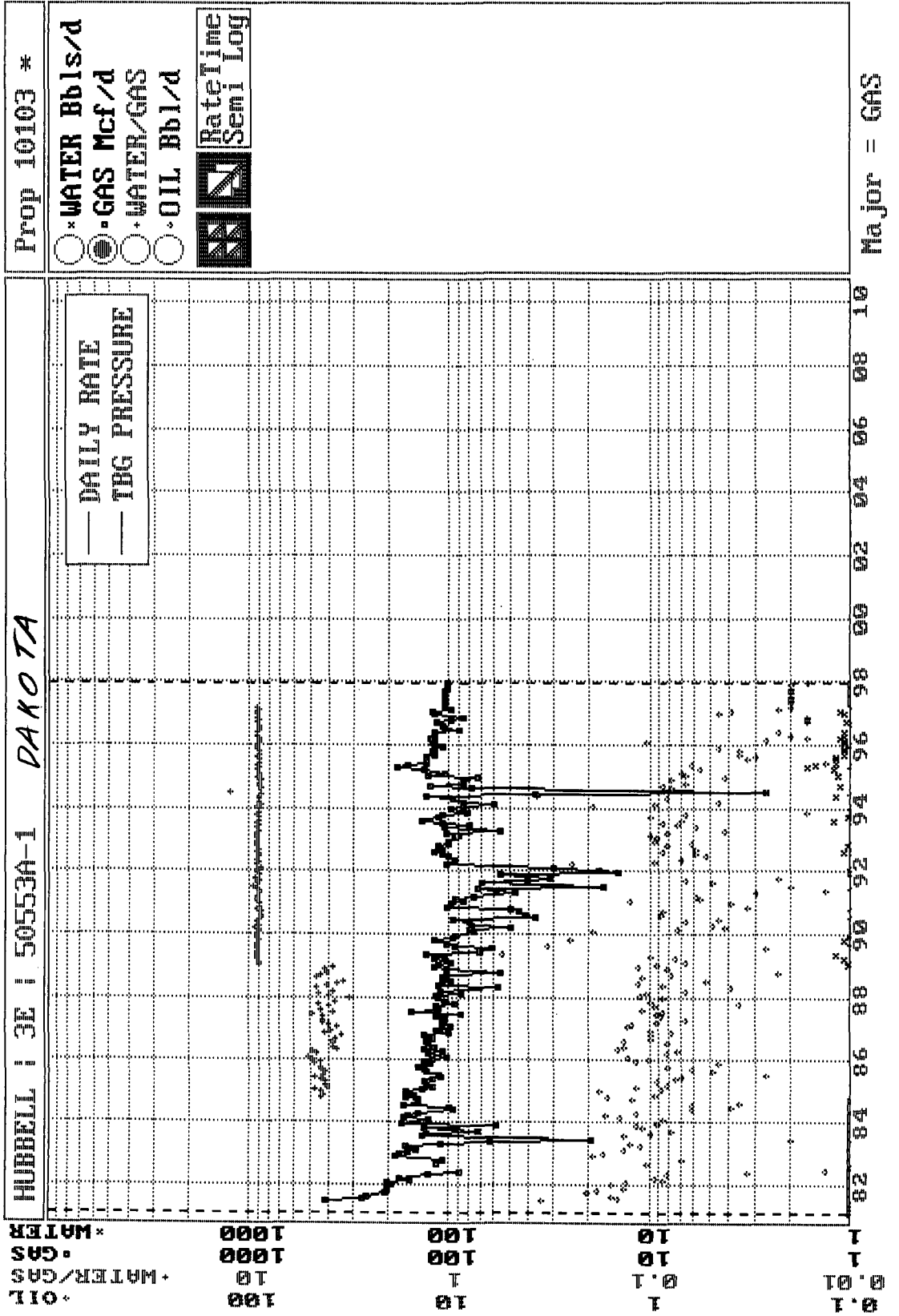
☐ Yes ☐ No If answer is "yes," type of consolidation _____

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.

		CERTIFICATION	
		<p>I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.</p> <p><i>A. G. Quisenberry</i></p>	
		<p>Name <u>Drilling Clerk</u></p> <p>Position <u>El Paso Natural Gas</u></p> <p>Company <u>October 11, 1979</u></p> <p>Date _____</p>	
		<p>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.</p> <p>Date Surveyed <u>September 12, 1979</u></p> <p>Registered Professional Engineer and/or Land Surveyor <u>Fred B. Kerr Jr.</u></p> <p>Certificate No. <u>3950</u></p>	





Page No.: 1
Print Time: Tue Jan 27 15:50:06 1998
Property ID: 10103 *DAKOTA*
Property Name: HUBBELL | 3E | 50553A-1
Table Name: K:\ARIES\RR98PDP\TEST.DBF

<u>--DATE--</u>	<u>---CUM GAS--</u>	<u>M SIWHP</u>
	Mcf	Psi

03/28/81	0	1259.0
04/06/81	0	1260.0
07/09/81	12708	945.0
05/18/82	76618	894.0
11/02/83	131347	-872.0
07/02/85	216263	720.0
03/04/88	330845	680.0
04/24/90	402745	704.0
03/29/92	444350	717.0
<i>11/30/97</i>	<i>661618</i>	<i>609.4 Estimated</i>

Page No.: 1
Print Time: Tue Jan 27 14:05:29 1998
Property ID: 2809
Property Name: GRENIER B | 3E | 25694-1
Table Name: K:\ARIES\RR98PDP\TEST.DBF

OFFSET MESA VERDE

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

10/31/81	0	1137.0
05/02/82	124467	544.0
08/24/83	249678	521.0
04/03/84	304800	480.0
09/17/86	442236	398.0
08/30/89	572033	424.0
10/21/91	649304	354.0
11/12/91	653665	366.0
05/31/93	718053	352.0

<i>11/30/97</i>	<i>875041</i>	<i>303 Estimated</i>
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Hubbell No. 3E
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	0.709	GAS GRAVITY	0.720
COND. OR MISC. (C/M)	M	COND. OR MISC. (C/M)	M
%N2	0.28	%N2	0.28
%CO2	0.56	%CO2	1.57
%H2S	0	%H2S	0
DIAMETER (IN)	4	DIAMETER (IN)	4
DEPTH (FT)	4317	DEPTH (FT)	6502
SURFACE TEMPERATURE (DEG F)	60	SURFACE TEMPERATURE (DEG F)	60
BOTTOMHOLE TEMPERATURE (DEG F)	115	BOTTOMHOLE TEMPERATURE (DEG F)	143
FLOWRATE (MCFPD)	0	FLOWRATE (MCFPD)	0
SURFACE PRESSURE (PSIA)	315	SURFACE PRESSURE (PSIA)	621
BOTTOMHOLE PRESSURE (PSIA)	352.3	BOTTOMHOLE PRESSURE (PSIA)	741.5
<u>MV-Original</u>		<u>DK-Original</u>	
GAS GRAVITY	0.709	GAS GRAVITY	0.720
COND. OR MISC. (C/M)	M	COND. OR MISC. (C/M)	M
%N2	0.28	%N2	0.28
%CO2	0.56	%CO2	1.57
%H2S	0	%H2S	0
DIAMETER (IN)	4	DIAMETER (IN)	4
DEPTH (FT)	4317	DEPTH (FT)	6502
SURFACE TEMPERATURE (DEG F)	60	SURFACE TEMPERATURE (DEG F)	60
BOTTOMHOLE TEMPERATURE (DEG F)	115	BOTTOMHOLE TEMPERATURE (DEG F)	143
FLOWRATE (MCFPD)	0	FLOWRATE (MCFPD)	0
SURFACE PRESSURE (PSIA)	1149	SURFACE PRESSURE (PSIA)	1271
BOTTOMHOLE PRESSURE (PSIA)	1313.7	BOTTOMHOLE PRESSURE (PSIA)	1553.6

Note: Since the Mesa Verde zone is a recompletion, data was utilized from the offset Grenier B No. 3E.

Package Preparation Volume Data

DPNo: 50553A

HUBBELL

JE

Form: DK

Supt: 60 KEN RAYBON

FF: 338 JOHNNY ELLIS

MS: 390 ERNIE MINERT

Pipeline: EPNG

Plunger: No

Dual: No

Compressor: No

Ownership (No Trust)			Prior Year			Current Year		
	Gas	Oil			Days			Days
				MCF/M	BOPM	On	MCF/M	BOPM
								On
GWI:	100.0000%	100.0000%	Jan	0	0.0	0	0	0.0
GNI:	84.0000%	84.0000%	Feb	0	0.0	0	0	0.0
			Mar	0	0.0	0	0	0.0
			Apr	0	0.0	0	0	0.0
			May	0	0.0	0	0	0.0
			Jun	0	0.0	0	0	0.0
			Jul	0	0.0	0	0	0.0
			Aug	0	0.0	0	0	0.0
			Sept	0	0.0	0	0	0.0
			Oct	0	0.0	0	0	0.0
			Nov	0	0.0	0	0	0.0
			Dec	0	0.0	0	0	0.0
			Total	0	0.0		0	0.0
Volumes								
(Days On)								
	MCFD	BOPD						
7 Day Avg	101	2.2						
30 Day Avg	100	0.2						
60 Day Avg	100	0.2						
3 Mo Avg	0	0.0						
6 Mo Avg	0	0.0						
12 MoAvg	0	0.0						
Volumes								
(Days in Month)								
	MCFD	BOPD						
30 Day Avg	100	0.2						
60 Day Avg	51	0.1						
3 Mo Avg	0	0.0						
6 Mo Avg	0	0.0						
12 Mo Avg	0	0.0						

Print Form

Exit Volumes Data

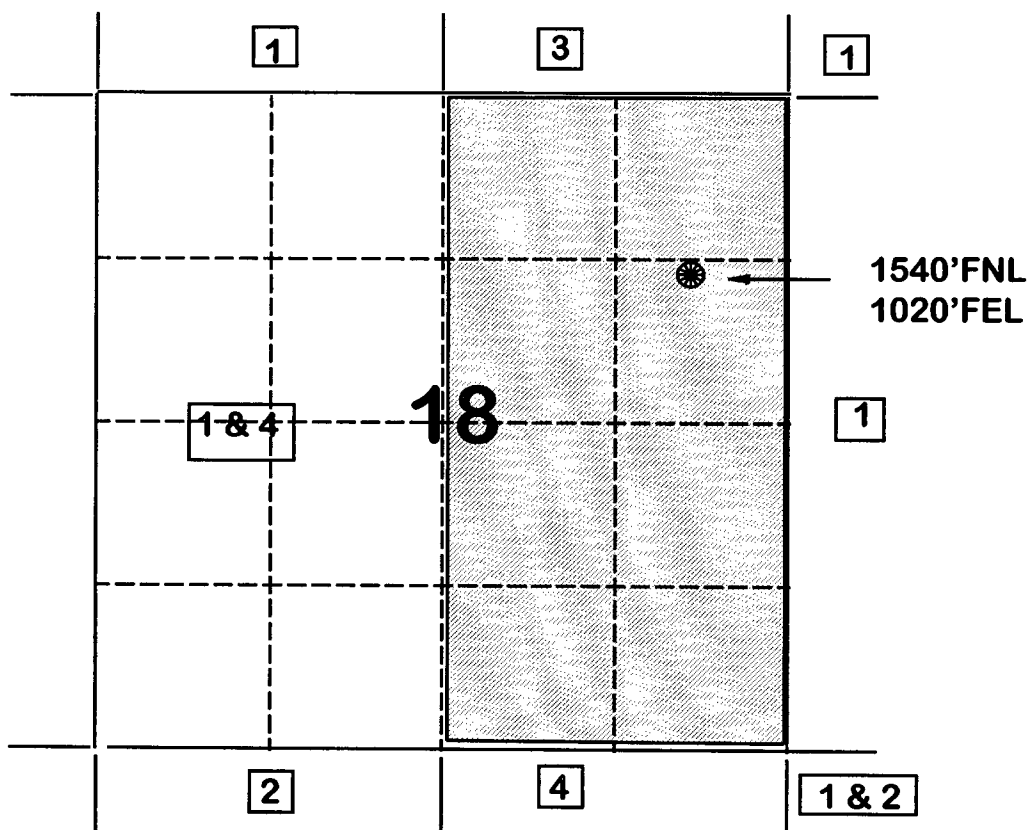
BURLINGTON RESOURCES OIL AND GAS COMPANY

Hubbell #3E

OFFSET OPERATOR \ OWNER PLAT

Dakota / Mesaverde Formations Commingle Well

Township 29 North, Range 10 West



- 1) Burlington Resources
- 2) Amoco Production Company
c/o Bruce Zimney
P.O. Box 800
Denver, CO 80201
- 3) Conoco Inc.
10 Desta Drive, Ste.100W
Midland, Texas 79705-4500

- 4) Four Star Oil & Gas Company
c/o Texaco Exploration & Producing
Attn.: Gary Cox
P.O. Box 2100
Denver, CO 80201

