DATE IN 4/3	197	SUSPENSE	20	197	ENGINEER	B5	LOGGED	M	TYPE DHC	
<b>*</b>			1	•						

ABOVE THIS LINE FOR DIVISION USE ONLY

### NEW MEXICO OIL CONSERVATION DIVISION

- Engineering Bureau -

1570

	THIS COVERSHE	ET IS MANDATORY FOR ALL ADMINISTRATIVE APPLICATIONS FOR EXCEPTIONS TO DIVISION RULES AND REGULATIONS
Applica	[PC-Po	[NSP-Non-Standard Proration Unit] [NSL-Non-Standard Location] [DD-Directional Drilling] [SD-Simultaneous Dedication]  Inhole Commingling] [CTB-Lease Commingling] [PLC-Pool/Lease Commingling]  Inhole Commingling] [OLS - Off-Lease Storage] [OLM-Off-Lease Measurement]  [WFX-Waterflood Expansion] [PMX-Pressure Maintenance Expansion]  [SWD-Salt Water Disposal] [IPI-Injection Pressure Increase]  Indified Enhanced Oil Recovery Certification] [PPR-Positive Production Response]
[1]	[A]	PPLICATION - Check Those Which Apply for [A]  Location - Spacing Unit - Directional Drilling  NSL NSP DD DSD  APR 30 1997
	Check [B]	Cone Only for [B] and [C]  Commingling - Storage - Measurement  DHC CTB PC OLS OLM
	[C]	Injection - Disposal - Pressure Increase - Enhanced Oil Recovery  ☐ WFX ☐ PMX ☐ SWD ☐ IPI ☐ EOR ☐ PPR
[2]	NOTIFICAT [A]	TION REQUIRED TO: - Check Those Which Apply, or ☐ Does Not Apply ☐ 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]	INFORMAT	TION / DATA SUBMITTED IS COMPLETE - Statement of Understanding
Regul	ations of the O	, or personnel under my supervision, have read and complied with all applicable Rules il Conservation Division. Further, I assert that the attached application for administration complete to the best of my knowledge and where applicable, verify that all interest

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	Bradfield	Regulatory/Compliance Administrator						
Print or Type Name	Signature	Title						

4-28-97 Date

### BURLINGTON RESOURCES

SAN JUAN DIVISION

April 24, 1997

SENT FEDERAL EXPRESS

Mr. William LeMay New Mexico Oil Conservation Division 2040 South Pacheco Street Santa Fe, New Mexico 87505

Re:

Grenier #17

990'FNL, 990'FWL Section 6, T-31-N, R-11-W, San Juan County, NM

API #30-045-11698

Dear Mr. LeMay:

This is a request for administrative approval for downhole commingling the Blanco Mesa Verde and Basin Dakota in the subject well. This well was originally drilled as a Dakota; it is intended to add the Mesa Verde and commingle.

To comply with the New Mexico Oil Conservation Division rules, Burlington Resources Oil & Gas Company is submitting the following for your approval of this commingling:

- 1. Form C107A Application for Downhole Commingling;
- 2. C-102 plat for each zone showing its spacing unit and acreage dedication;
- 3. Production curve for Dakota and expected production curve for the Mesa Verde;
- 4. Notification list of offset operators;
- 5. Shut in wellhead pressure and calculated down hole pressure of surrounding wells;
- 6. Nine-section plats for the Mesa Verde and Dakota.

Notification of Mesa Verde and Dakota interest owners is unnecessary, as all interests are identical.

We will consult with the Supervisor of the Aztec District Office of the New Mexico Oil Conservation Division to establish an allocation formula.

Please let me know if you require additional data.

Sincerely,

Peggy Bradfield

Regulatory/Compliance Administrator

Mas Stadhuld

xc: Bureau of Land Management - hand delivered

#### 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

APPLICATION FOR DOWNHOLE COMMINGLING

### **OIL CONSERVATION DIVISION**

2040 S. Pacheco Santa Fe, New Mexico 87505-6429

Form C-107-A New 3-12-96

X\_YES \_\_NO

**APPROVAL PROCESS:** 

\_X\_ Administrative \_\_\_Hearing

**EXISTING WELLBORE** 

### **Burlington Resources Oil and Gas**

TYPE OR PRINT NAME\_\_\_\_Mary Ellen Lutey\_

Grenier	#17 D-6-31N-		San Juan
se RID NO14538 Property	Well No. Unit Ltr Sec-	Space	County ing Unit Lease Types: (check 1 or more) IX, StateFeeX
he following facts are submitted a support of downhole commingling:	Voper Zone	Intermediate Zone	Zong Lower
l. Pool Name and Pool Code	Mesaverde - 72319		Dakota - 71599
. Top and Bottom of Pay Section (Perforations)	Will be supplied upon completion.		7524'-7671'
. Type of production (Oil or Gas)	Gas		Gas
. Method of Production (Flowing or Artificial Lift)	Flowing		Flowing
5. Bottomhole Pressure Oil Zones - Artificial Lift: Estimated Current	(Current) a. 407 psi (est.) (offset Grenier #1) (see attachment)		a. 848 psi (see attachment)
Gas & Oil - Flowing: Measured Current All Gas Zones: Estimated or Measured Original	(Original) b. 1161 psi (est.) (offset Grenier #1) (see attachment)		b. 2505 psi (see attachment)
6. Oil Gravity (°API) or Gas BTU Content	BTU 1238 (est.) (offset Grenier #1)		BTU 1102
7. Producing or Shut-In?	Not completed yet.		Producing
Production Marginal? (yes or no)	Yes		Yes
If Shut-In and oil/gas/water rates of last production  lote: For new zones with no production history, upplicant shall be required to attach production instinutes and supporting data	Date: N/A Rates:		Date: N/A Rates:
* If Producing, give data and oil/gas/water water of recent test within 60 days)	Date: 3/1/97 Rates:		Date: 3/1/97 Rates: 140 mcfd .36 bopd
I. Fixed Percentage Allocation Formula -% for each zone (total of %'s to equal 100%)	Will be supplied upon completion.		Will be supplied upon completion.
). Are all working, overriding, and If not, have all working, overrid Have all offset operators been	I royalty interests identical in all ling, and royalty interests been given written notice of the prop	commingled zones? notified by certified mail? osed downhole commingling?	
			s not be damaged, will any cross attach explanation)
<ol> <li>Are all produced fluids from all</li> <li>Will the value of production be</li> </ol>			· ·
·	• • • •	_ , ,	ublic Lands or the United States
5. NMOCD Reference Cases for R			
6. ATTACHMENTS:  * C-102 for each zone  * Production curve for  * For zones with no pr  * Data to support allo  * Notification list of allo	to be commingled showing its s reach zone for at least one year oduction history, estimated pro cation method or formula. Loffset operators	pacing unit and acreage dedica (If not available, attach explan duction rates and supporting da nterests for uncommon interest ired to support commingling.	tion. ation.) ta.
hereby certify that the inform	nation above is true and co	mplete to the best of my kn	owledge and belief.
IGNATURE Mary Elle	n LutingTITLE	Production Engineer	_DATE4/24/97

\_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

#### State of New Mexico Energy, Minerais & Natural Resources Department

#### OIL CONSERVATION DIVISION PO Box 2088 Santa Fe, NM 87504-2088

Form C-Revised February 21, 19

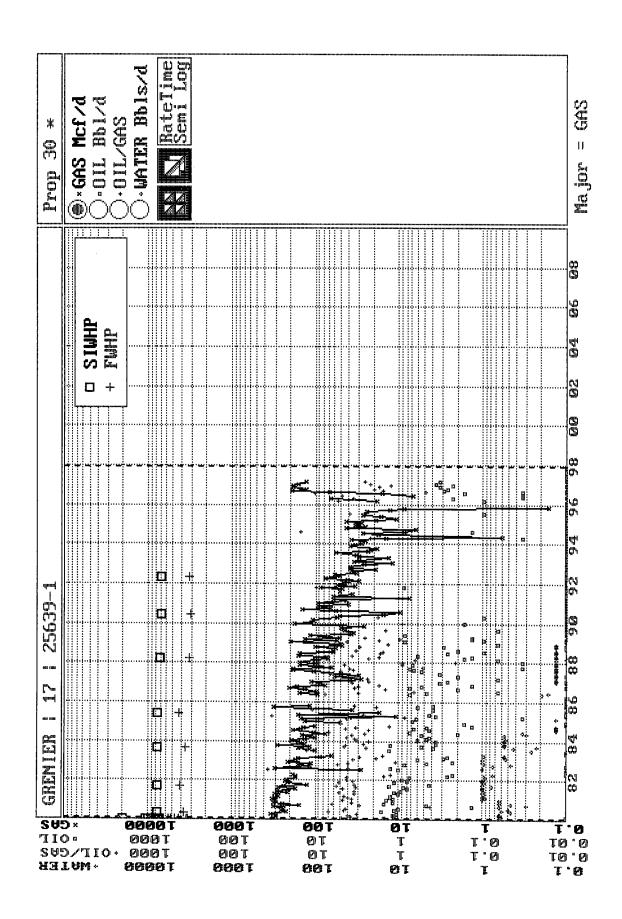
Instructions on ba Submit to Appropriate District Off

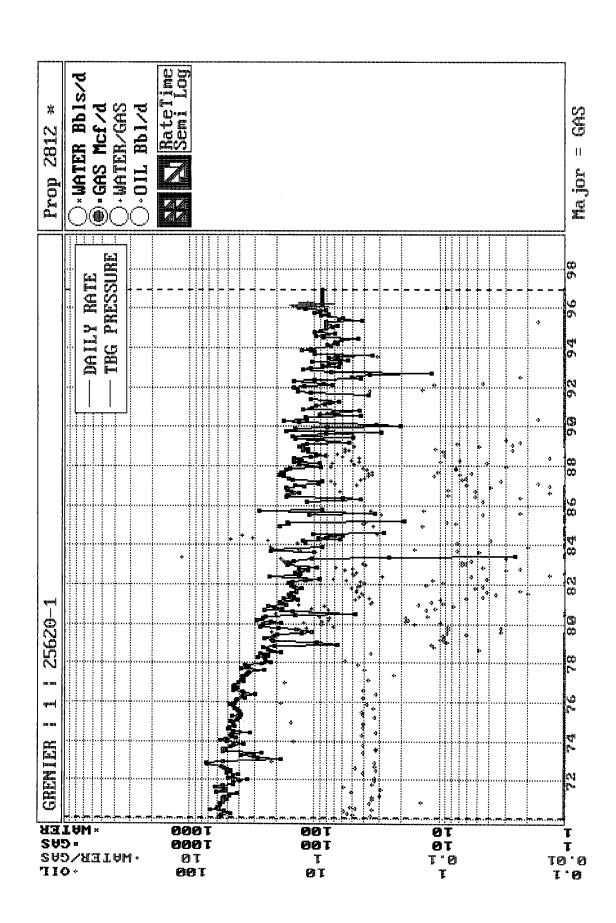
State Lease - 4 Cop

AMENDED REPO

#### Fee Lease - 3 Cor District IV PO Box 2088, Santa Fe, NM 87504-2088 WELL LOCATION AND ACREAGE DEDICATION PLAT API Number 1 Pool Code ' Pool Name 30-045-11698 72319/71599 Blanco Mesaverde/Basin Dakota '.Property Name Property Code Well Number 18530 Grenier 17 'OGRID No. Operator Name ' Elevation BURLINGTON RESOURCES OIL & GAS COMPANY 6450' 14538 <sup>10</sup> Surface Location Toweship East/West line UL or lot no. Lot Ida Feet from the North/South line Fest from the Section Range County D 6 31 - N11-W 990 990 North West S.J. 11 Bottom Hole Location If Different From Surface North/South line UL or lot no. Section Township Range Lot Idn Feet from the Feet from the East/West time County Dedicated Acres 13 Igint or Infill 14 Consolidation Code 14 Order No. DK-W/310192 NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATE OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION 17 OPERATOR CERTIFICATIO I hereby cerufy that the information cont 96 Not resurveyed, prepared true and complete to the best of my knowledge and be from a plat by Ernest V. O Echohawk datled 3-26-66. 990' Signature Peggy Bradfield Printed Name Regulatory Administrate Title 4-28-97 18SURVEYOR CERTIFICATIO I hereby certify that the well location shown on this p was plotted from field notes of actual surveys m or under my supervision, and that the same is true an correct to the best of my belief. 4/24/97 Date of Survey Signature and Scal o

68*57* 



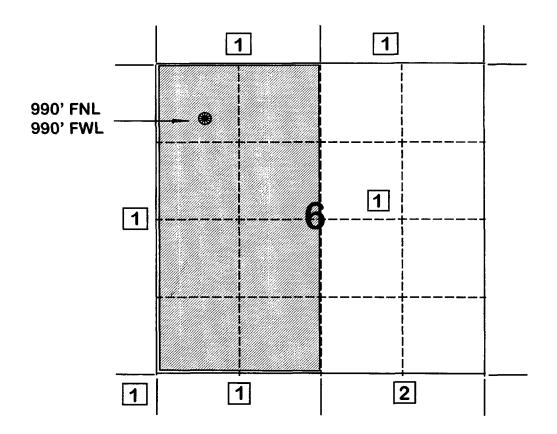


### **BURLINGTON RESOURCES OIL AND GAS COMPANY**

# Grenier #17 OFFSET OPERATOR \ OWNER PLAT

### Mesaverde/Dakota Formations Commingle Well

**Township 31 North, Range 11 West** 



- 1) Burlington Resources Oil and Gas Company Successor to Meridian Oil Inc.
- 2) Kimbark Oil & Gas Company 1660 Lincoln St #2700 Denver, CO 80264

FARMINGTON 1997 MONTHLY PRODUCTION FOR 25639 GRENIER 17 PHS030M1

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	11		01	4891	31	1102	15.025			
2 2 F	.28	02	10		01	3907	28	1102	15.025			
3			a. 1	.,								
4			. 36 E	opac		E m	if 1d					
5						140						
6						• -						
7												
8												
9												
10												
11												
12												

PF6 - RETURNS TO ANNUAL DISPLAY PF3 - TRANSFER TO UPDATE
PF10 - HELD INFORMATION PF9 - DISPLAY MONTHLY INJ

PF9 - DISPLAY MONTHLY INJECTION PF10 - HELP INFORMATION

00/00/00 00:00:00:0 PRS 04/03/97

B MY JOB NUM LU #29

# FLOWING AND STATIC BHP CULLENDER AND SMITH METHOD

VERSION 1.0 3/13/94

GAS GRAVITY	0.66
COND. OR MISC. (C/M)	С
%N2	0.11
%CO2	2.54
%H2S	0
DIAMETER (IN)	2.4
DEPTH (FT)	7710
SURFACE TEMPERATURE (DEG F)	60
BOTTOMHOLE TEMPERATURE (DEG F)	200
FLOWRATE (MCFPD)	0
SURFACE PRESSURE (PSIA)	709
BOTTOMHOLE PRESSURE (PSIA)	947.0
DO I TOWN TOLL FRESSURE (FSIA)	047.0

GRENIER #17 DAKOTA - (CURRENT)

# FLOWING AND STATIC BHP CULLENDER AND SMITH METHOD

VERSION (.0 3/13/94

GAS GRAVITY	0.66
COND. OR MISC. (C/M)	С
%N2	0.11
%CO2	2.54
%H2S	0
DIAMETER (IN)	2.4
DEPTH (FT)	7710
SURFACE TEMPERATURE (DEG F)	60
BOTTOMHOLE TEMPERATURE (DEG F)	200
FLOWRATE (MCFPD)	0
SURFACE PRESSURE (PSIA)	2052
BOTTOMHOLE PRESSURE (PSIA)	2504.9

GRENIER #17 DAKOTA - (ORIGINAL)

Organize Data ScreenGraph Economics Report Plot Utility
Browsing: GRENIER | 17 | 25639-1 Property No.:
Table(T): TEST/M,P,H,E,T,Z,C,A,O,D,N,1,2,3,B,U,S Rec: 1/15/1231
Item: 2/3/33 Name: DATE Type: Date Len: 8/27/203 Ouit Property No.: 22

DATE	CUM_GAS	M_SIWHP
•	Mcf	Psi
06/20/66	0	2052.0
06/12/70	1050795	1067.0
04/30/71	1236666	999.0
03/18/72	1390308	933.0
05/02/73	1671244	874.0
04/18/75	2038965	788.0
05/17/77	2392907	716.0
05/02/79	2635955	752.0
05/01/80	2734456	778.0
09/01/81	2862478	788.0
08/24/83	2954027	782.0
05/29/85	3032789	767.0
03/22/88	3122976	729.0
06/07/90	3190121	699.0
04/28/92	3226505	709.0

F1=Help F3=PrvPro F5=PrvTbl F7=Calcu F9=Utils Alt+TableLtr=Change Table F2=Jump F4=NxtPro F6=NxtTbl F8=Print F10=Exit Shift+<- ->=Fast Tbl R & L

# FLOWING AND STATIC BHP CULLENDER AND SMITH METHOD

VERSION 1.0 3/13/94

GAS GRAVITY	0.72
COND. OR MISC. (C/M)	С
%N2	0.11
%CO2	1
%H2S	0
DIAMETER (IN)	2.4
DEPTH (FT)	5706
SURFACE TEMPERATURE (DEG F)	60
BOTTOMHOLE TEMPERATURE (DEG F)	150
FLOWRATE (MCFPD)	0
SURFACE PRESSURE (PSIA)	985
BOTTOMHOLE PRESSURE (PSIA)	1160.8

GRENIER #17 MESAVERDE - (ANTICIPATED )
GRENIER #1 MESAVERDE - (ORIGINAL)

# FLOWING AND STATIC BHP CULLENDER AND SMITH METHOD

VERSION 1.0 3/13/94

GAS GRAVITY	0.72
COND. OR MISC. (C/M)	<u>c</u>
%N2	0.11
%CO2	1
%H2S	0
DIAMETER (IN)	2.4
DEPTH (FT)	5706
SURFACE TEMPERATURE (DEG F)	60
BOTTOMHOLE TEMPERATURE (DEG F)	150
FLOWRATE (MCFPD)	0
SURFACE PRESSURE (PSIA)	352
BOTTOMHOLE PRESSURE (PSIA)	407.2

GRENIER #17 MESAVERDE - (ANTICIPATED )
GRENIER #1 MESAVERDE - (CURRENT)

COMMAND ===> SCROLL ===> PAGE

> State: 30 Prod: 2 Lease Name: GRENIER County Name: SAN JUAN Ident: 31N11W06000MV Reservoir Name: MESAVERDE

Operator Name: BURLINGTON RES O&G CO District: 4

Location: 60 31N 11W Field Name: BLANCO (MESAVERDE)

Retrieval code: 251,045,31N11W06000MV Well: Total Depth: 5706

Gas Gath: SUG Status: ACT Upper Perf: 5410

API No: 1100500 Comp Date: 195104 Lower Perf: 5524

Date	Cum to Test	WHSIP	ВНР	P/Z	BDWtr	BDCnd	WHFlw	Poten	MC	Pt	Z FAC
19510401	0	985	1134	1274	0	0	0	2420	С	2	90.000
19700418	1,676,176	690	790	858	0	0	561	604	C	2	21.000
19710418	1,876,573	561	640	684	0	0	452	513	C	2	35.000
19720418	2,054,358	561	640	684	0	0	454	473	C	2	35.000
19730502	2,234,559	541	617	658	0	0	455	365	C	2	37.000
19740602	2,420,820	473	539	571	0	0	378	491	C	2	44.000
19780518	2,979,740	472	538	570	0	0	370	256	С	2	44.000
19800824	3,143,877	495	564	599	0	0	401	243	С	2	42.000
19820417	3,242,175	467	532	563	0	0	438	69	С	2	45.000
19840529	3,328,237	464	528	559	0	0	410	123	С	2	45.000
B MY JOB			LU	#13							

COMMAND ===> SCROLL ===> PAGE

> State: 30 Lease Name: GRENIER County Name: SAN JUAN Ident: 31N11W06O00MV Reservoir Name: MESAVERDE

District: 4 Operator Name: BURLINGTON RES O&G CO Location: 60 31N 11W Field Name: BLANCO (MESAVERDE)

Retrieval code: 251,045,31N11W06O00MV Well: 1
Gas Gath: SUG Status: ACT Total Depth: 5706 Upper Perf: 5410

API No: 1100500 Comp Date: 195104 Lower Perf: 5524

Date Cum to Test WHSIP BHP P/Z BDWtr BDCnd WHFlw Poten MC Pt Z FAC 
 3,369,739
 451
 514
 543
 0
 0
 420

 3,520,457
 429
 488
 514
 0
 0
 320

 3,587,509
 387
 440
 461
 0
 0
 354

 3,648,567
 367
 417
 436
 0
 0
 328

 3,712,674
 352
 400
 418
 0
 0
 311
 19860402 81 C 2 47.000 92 C 2 49.000 99 C 2 54.000 19890609 19910529 19930629 80 C 2 0.956 311 107 C 2 0.958 

# GRENIER #17 BLANCO MESAVERDE SECTION 6. T3IN. RIIW

5A CONOCO 35 65 F P M  7TVE 662-1 State Con: S'EPMIN/2 10/	753 -  7  0.5 2/78  28-965 0.5-2  77 -3	4/78 4/78 444-306 2-13 5831-25 31 12/51 46-4193 0-30 4394-32	1-58 8703-60 5 6 2/79 207-17K 0.5-5.5 4392-2	P 2/78 2/78 2/78 222-1787 1-7.5 DayState(MD) 3307-12 32 0 5 0 3/53 499-7625 3-28
	, , , , , ,	LUNSON I GUVIN		Sundair Com 10707-29
NA 58-3250 0-12 3856-13 2A 3 6/75 13-1050 0.7-5 1 1569-6 4/78 293-2169 1.5-10 4150-19 648-4645 0-19 5529-20	10/76 255-1759 1.5-10 3991-22.5	14 7/75 146-1313 0.5-6 2534-9 4/51 96-3754 0-11.5 1 4739-12.5	9/53 32-1787 0-l	AMOCO  4/54 155-2798 1-6  5  7/78 47-8   0-2.5 P
Davis(ALL)W/2 Dusenberry(ALL)E/2	Dusenberry(M)W/2only Grenier	(FPMD)	1	Case B'(PM)
6A		KIMBARK	AMOCO	
4 10 2/78 8/5 29-4586 158-14 2-10 0.5-15.8 0-0.08 1717-12 4686-16 454-9.8	4 6/5I H45-5285 P I-I7.5 6575-23	2/76 269-l094 0.5-l IA	9/79 49-1036 2A 0-6	2/55 45-2010 0-5 0 5 5 5 6 5 6 6 6 6 6 6 6 6 6 6 6 6 6 6
12 8/51 2/82 105-1444 156-686 0.6-5 1-3 2064-5.5 1039-5 6	7/75 7 160-1664 1-4 2290-6	6/52 66-2486 0-0	4/55 17-3230 0-4 \$\infty\$^2	8 10/79 6-1332 0-5 P
DOYIS	Grenier	Horton	Cose'B'	Mudge 18"
P-10-1W	FOELD			

R-12-W

LEGEND

R-II-W

FIRST PRODUCED
MCFPD - CUM (MMCF)
BOPD - CUM (MBO)
EUR\_NG - EUR\_CND

T 32 N

T 31 N