

DKrplment #3

pKRV0-202552481

Rec: 1-25-02

Susp: NA

Released: 1-30-02

January 30, 2002

**BP America Production Company  
P. O. Box 3092  
Houston, Texas 77253-3092**

**Attention: Mary Corley**

**Administrative Order NSL-4692**

Dear Ms. Corley:

Reference is made to the following: (i) your application dated June 18, 2001 (*application reference No. pKRV0-202552481*); and (ii) the New Mexico Oil Conservation Division's ("Division") records in Santa Fe and Aztec: all concerning BP America Production Company's ("BP") request for an exception to the well location requirements provided within the "*Special Rules and Regulations for the Basin-Dakota Pool*," as promulgated by Division Order No. R-10987-B, issued in Case No. 12290 and dated June 30, 2000, as amended by Division Order No. R-10987-B (1), dated August 10, 2000 (which were in effect at the time this application was filed), for a non-standard Basin-Dakota replacement gas well location within an existing standard 320-acre stand-up gas spacing and proration unit for the Basin-Dakota Pool (**71599**) comprising the E/2 of Section 18, Township 29 North, Range 8 West, NMPM, San Juan County, New Mexico. This unit is currently assigned to BP's: (i) Day Well No. 5 (**API No. 30-045-23975**), located at a standard gas well location 990 feet from the South and East lines (Unit P) of Section 18; and (ii) Day Well No. 5-E (**API No. 30-045-25472**), located at a standard infill gas well location 790 feet from the North and East lines (Unit A) of Section 18.

This application has been duly filed under the provisions of Division Rules 104.F and 605.B.

It is understanding that the above-described Day Well No. 5-E is currently inactive and the BP intends to plug and abandon this well prior to drilling its replacement.

By the authority granted me under the provisions of Division Rule 104.F (2), the following described well to be drilled as a replacement to the aforementioned infill gas well on this 320-acre unit at an unorthodox gas well location is hereby approved:

**Day Well No. 5-M  
2425' FNL & 1425' FEL (Unit G)  
(API No. 30-045-30901).**

Further, both of the aforementioned Day Wells No. 5 and 5-M and existing 320-acre gas spacing and proration unit will be subject to all existing rules, regulations, policies, and procedures applicable to prorated gas pools in Northwest, New Mexico.

Sincerely,

Lori Wrotenbery  
Director

LW/MES/kv

cc: New Mexico Oil Conservation Division - Aztec  
U. S. Bureau of Land Management – Farmington

REMARK: This administrative order is being released at this time since your application was submitted prior to the issuance of Division Order No. R-10987-B (2) on January 29, 2002 (see copy attached).



State of New Mexico  
OIL CONSERVATION COMMISSION

1-28-02

From

MICHAEL E. STOGNER  
PETROLEUM ENGINEER

# Memo

To Steve Hayden

Copy of an Amoco appl.  
filed on 1-25-02 for your  
review and comments,  
Thank.

P.O. BOX 2088  
LAND OFFICE BUILDING  
SANTA FE, NEW MEXICO 87501  
505-827-5811

ABOVE THIS LINE FOR DIVISION USE ONLY

**NEW MEXICO OIL CONSERVATION DIVISION**  
 - Engineering Bureau -  
 1220 South St. Francis Drive, Santa Fe, NM 87505



**ADMINISTRATIVE APPLICATION CHECKLIST**

THIS CHECKLIST IS MANDATORY FOR ALL ADMINISTRATIVE APPLICATIONS FOR EXCEPTIONS TO DIVISION RULES AND REGULATIONS WHICH REQUIRE PROCESSING AT THE DIVISION LEVEL IN SANTA FE

**Application Acronyms:**

- [NSL-Non-Standard Location] [NSP-Non-Standard Proration Unit] [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 - Simultaneous Dedication  
 NSL  NSP  SD
- Check One Only for [B] or [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
- [D] Other: Specify \_\_\_\_\_
- [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] **SUBMIT ACCURATE AND COMPLETE INFORMATION REQUIRED TO PROCESS THE TYPE OF APPLICATION INDICATED ABOVE.**

[4] **CERTIFICATION:** I hereby certify that the information submitted with this application for administrative approval is **accurate** and **complete** to the best of my knowledge. I also understand that **no action** will be taken on this application until the required information and notifications are submitted to the Division.

**Note:** Statement must be completed by an individual with managerial and/or supervisory capacity.

Mary Corley  
 Print or Type Name

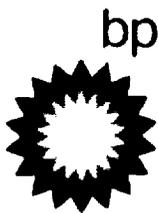
*Mary Corley*  
 Signature

Sr. Regulatory Analyst  
 Title

01/24/2002  
 Date

corleyml@bp.com  
 e-mail Address

02 JAN 25 PM 10:23  
 OIL CONSERVATION DIV



San Juan Business Unit

Mary Corley  
[corleymf@bp.com](mailto:corleymf@bp.com)  
WL1-19.171  
281-366-4491 (direct)  
281-366-0700 (FAX)

P. O. Box 3092  
Houston, Texas 77253-3092  
501 Westlake Park Boulevard  
Houston, Texas 77079

January 24, 2002

New Mexico Oil Conservation Division  
1220 South St. Francis Drive  
P.O. Box 6429  
Santa Fe, New Mexico

Attention: Michael Stogner

**Unorthodox Basin Dakota Well Location**  
**Day 5M**  
**2425 FNL 1425 FEL, Section 18 T29N R8W**

*(30-045-30901)*

BP America Production Company (formerly Amoco Production Company) hereby requests administrative approval for an unorthodox location for the referenced proposed well due to geologic reasons.

BP America wants to drill the Day 5M well to the Mesaverde and Dakota formations at the above location, which is non-standard for the Dakota formation only. This well will be the third Mesaverde and third Dakota well in the respective GPU's. In the Dakota, this well will replace a currently inactive well, the Day 5E, which will be plugged and abandoned prior to drilling the Day 5M.

Attachment 1 shows the surface topography and locations of the existing Dakota wells in the 9-section area centered on Section 20. Attachments 2 and 3 respectively show the well's proposed location at the Mesaverde and Dakota horizons in relation to existing active and inactive wells and the defined drilling windows.

Based on our estimates of well productivity and reserves for a Dakota well in this GPU, we believe the Dakota can only be economically developed by deepening a Mesaverde infill well. Our plan for the Day 5M is to drill and complete it as a commingled Mesaverde/Dakota producer. The well's proposed bottomhole location is based on optimal placement in the Dakota and Mesaverde, taking into account reservoir drainage patterns in both horizons.

Attachment 4 shows our estimated drainage pattern for the Mesaverde reservoir. Locating the proposed well within the defined limits for a standard Dakota well location

(per Order No. R-10987-B), would place it within the drainage ellipse of the Day B 5. The new well would suffer excessive interference with the Day B 5 and would therefore be uneconomic to drill.

Attachment 5 shows our estimated drainage pattern for the Dakota reservoir. The proposed well is located in the northeast quarter of the section and will replace the Day 5E. It is located outside the estimated drainage areas of the surrounding Dakota producers. The location does not encroach on the outer boundaries of the Dakota GPU and does not impact correlative rights with royalty and working interest owners in the adjacent GPU's.

BP America respectfully requests that a non-standard location for the Basin Dakota Pool be issued for the referenced well for the reasons cited above. If there are any questions concerning this application, please call me at (281) 366-4491 (email: [corleym1@bp.com](mailto:corleym1@bp.com)) or Bill Hawkins at (303) 830-3259. Geological/reservoir questions may be directed to Bob Moore at (281) 366-5818, and land questions to Steve Reinert (281) 366-5852.

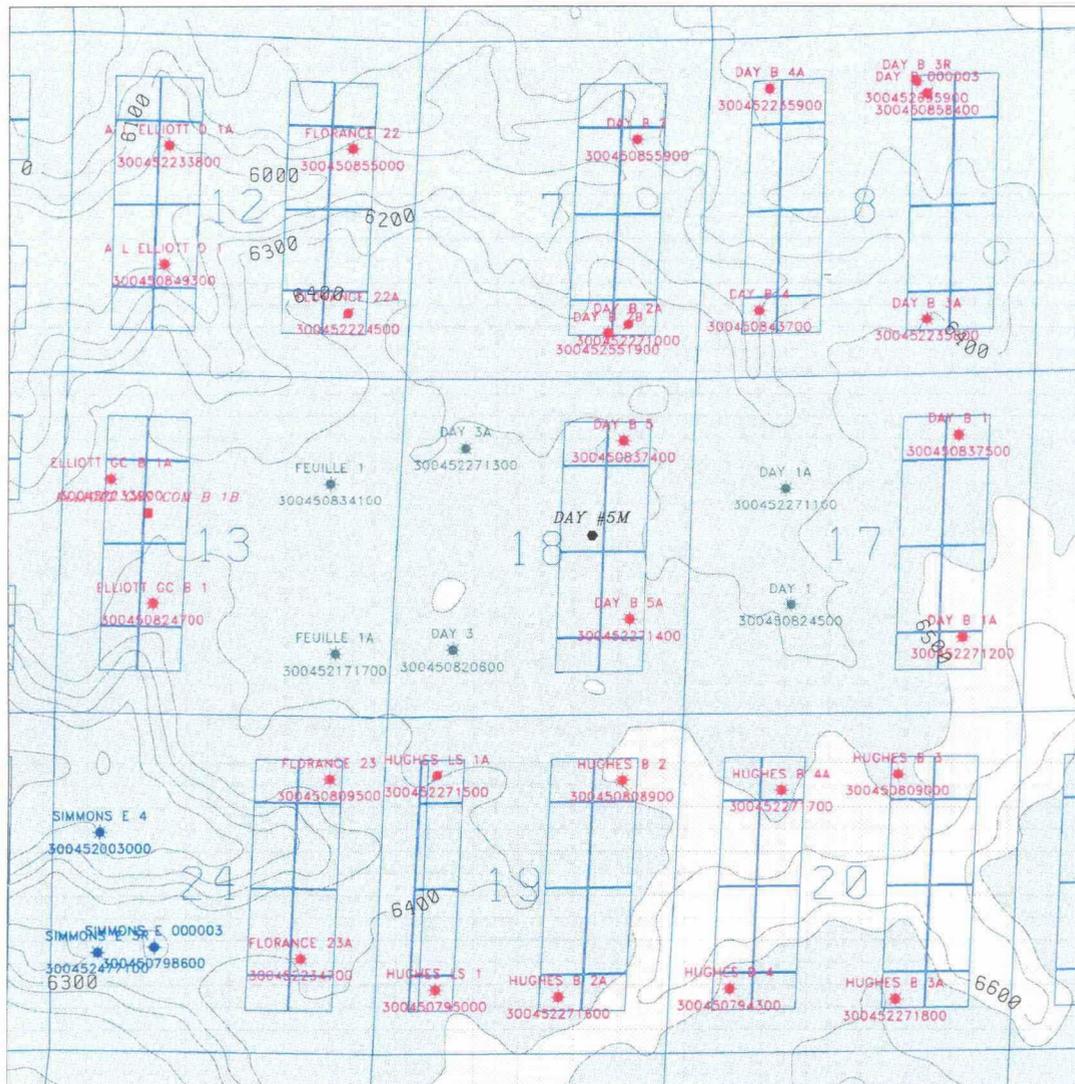
Sincerely,



Mary Corley

CC: Burlington Resources Inc.  
400 N. Sam Houston Parkway. East Ste. 1200  
Houston, Texas 77060

# Attachment 1: Surface Topography



**WELL SYMBOL LEGEND**

- Active Well
- P&A Well
- Inactive or S/I Well

**COLOR LEGEND**

- Amoco/Vastar Operated
- Burlington Operated
- Conoco Operated
- Other Co. Operated

**Special Well Legend**

- 2000 Program MV Location
- ◆ Planned 2001 Location
- Staked 2001 Location

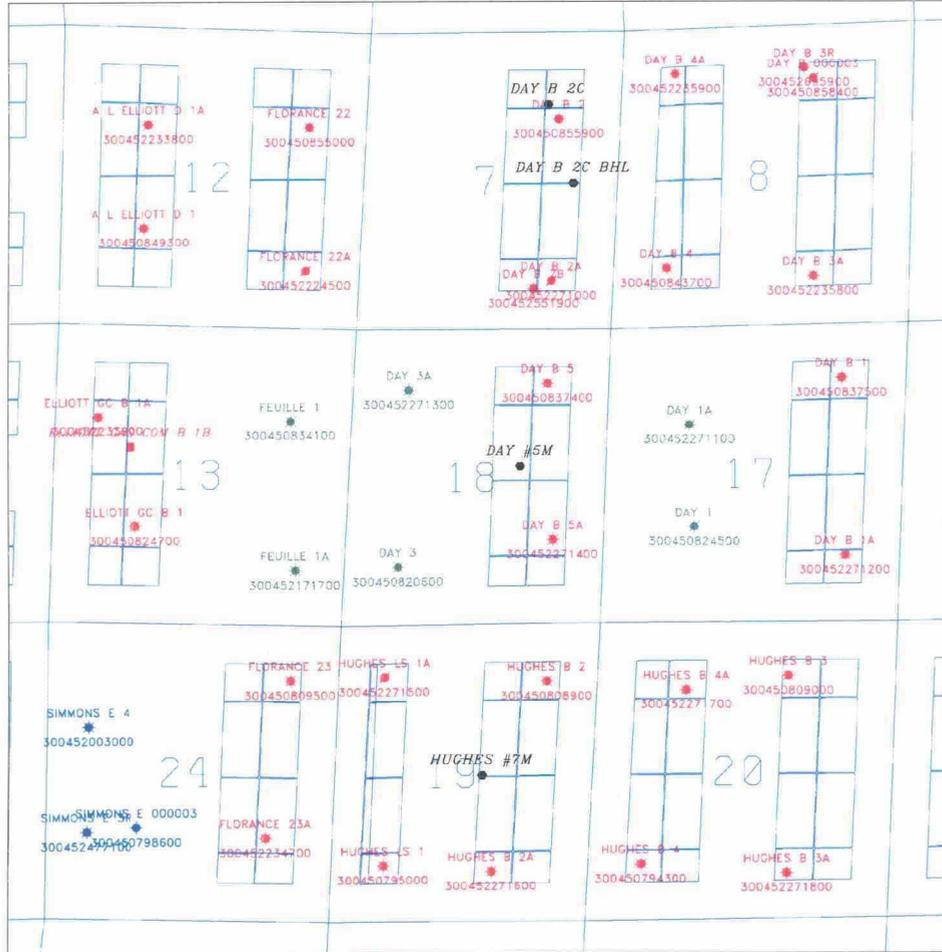
Amoco Production Company  
Houston, Texas

*San Juan Basin*

9 Section - Mesaverde Wells  
Day #5M  
29 N 8 W Section 18

SCALE	DRAWN C. E. SACKETT	DATE 1-JAN-2002
DRAWING		

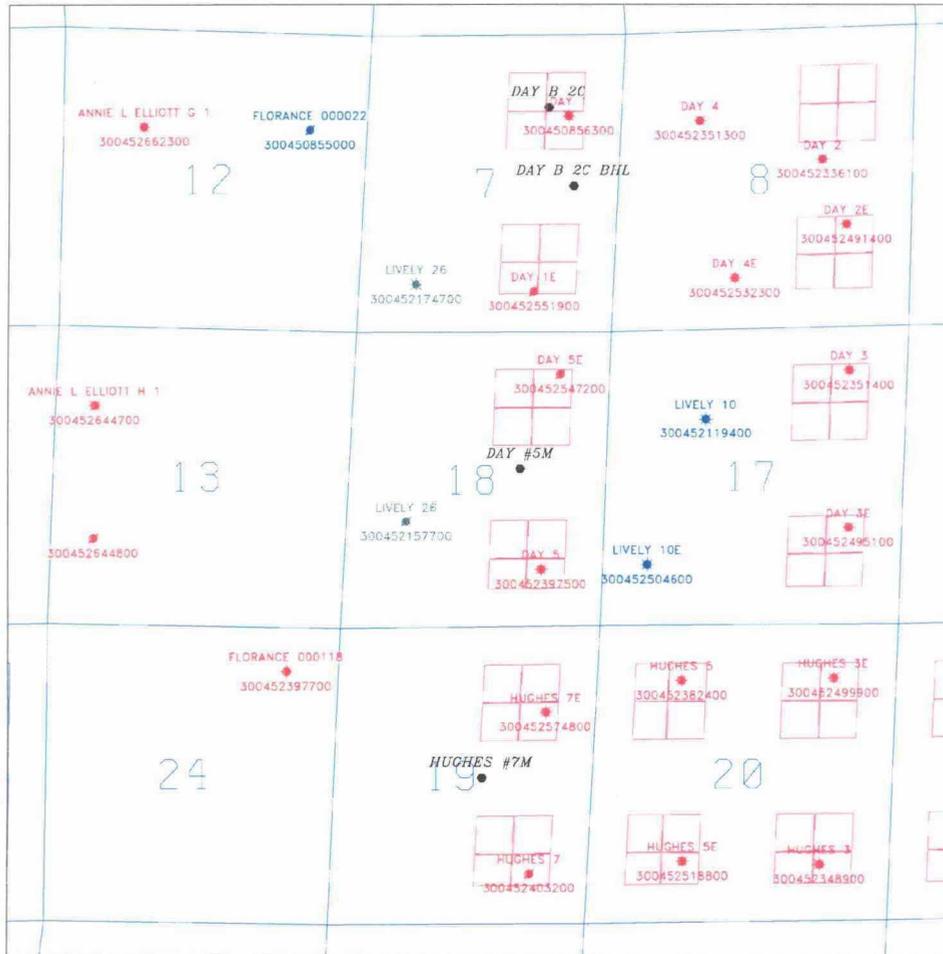
# Attachment 2: Mesaverde 9-Section Plat



- WELL SYMBOL LEGEND**
- Active Well
  - ◆ P&A Well
  - Inactive or S/I Well
- COLOR LEGEND**
- Amoco/Vestor Operated
  - Burlington Operated
  - Conoco Operated
  - Other Co. Operated
- Special Well Legend**
- 2000 Program MV Location
  - ◆ Planned 2001 Location
  - Staked 2001 Location

Amoco Production Company Houston, Texas	
San Juan Basin	
9 Section - Mesaverde Wells	
Day #5M	
29 N 8 W Section 18	
DATE	BY
DRAWN	DATE
C. E. SACKETT	1-OCT-2001

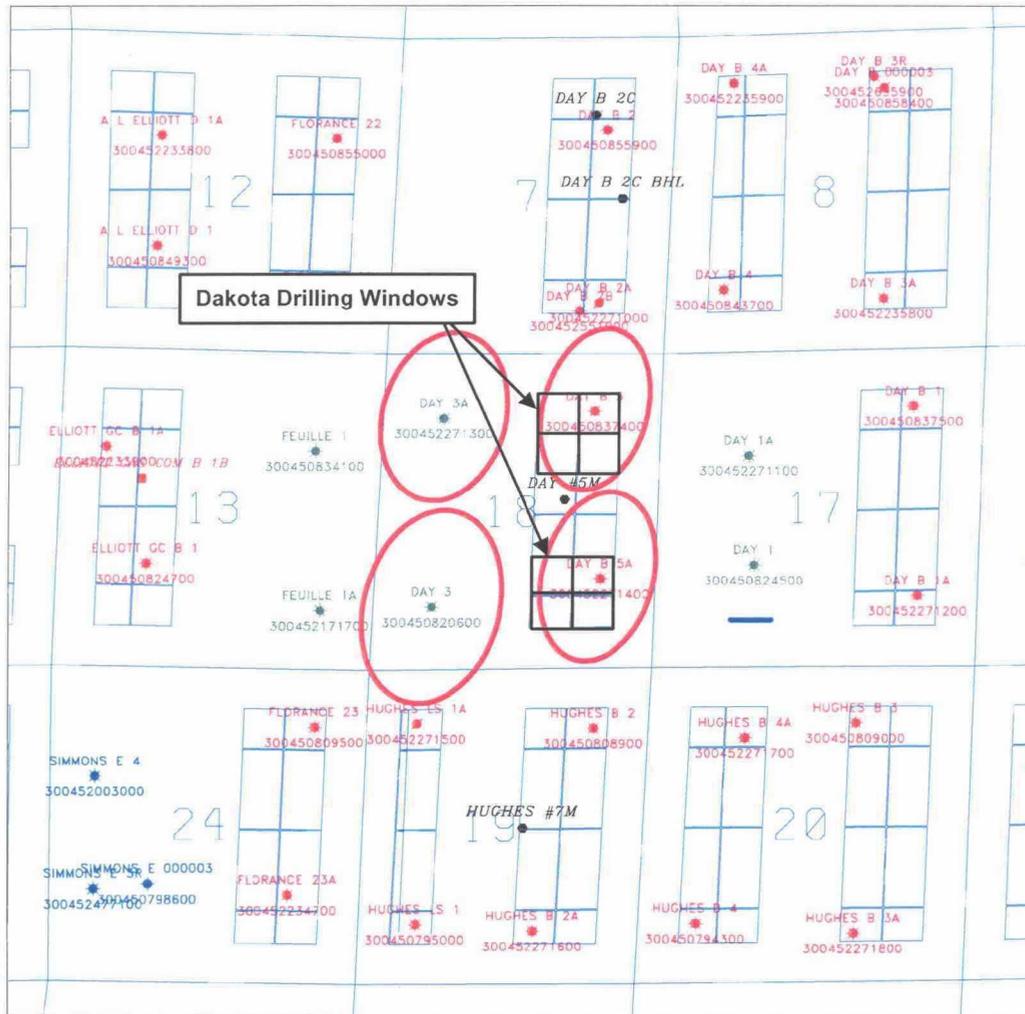
# Attachment 3: Dakota 9-Section Plat



- WELL SYMBOL LEGEND**
- ★ Active Well
  - ◆ P&A Well
  - Inactive or S/I Well
- COLOR LEGEND**
- Amoco/Vestor Operated
  - Burlington Operated
  - Canaco Operated
  - Other Co. Operated
- Special Well Legend**
- 2000 Program MV Location
  - ◆ Planned 2001 Location
  - Staked 2001 Location

Amoco Production Company Houston, Texas	
<i>San Juan Basin</i>	
9 Section – Mesaverde Wells Day #5M 29 N 8 W Section 18	
SCALE	DRAWN C. E. SACKETT
DATE	1-OCT-2001

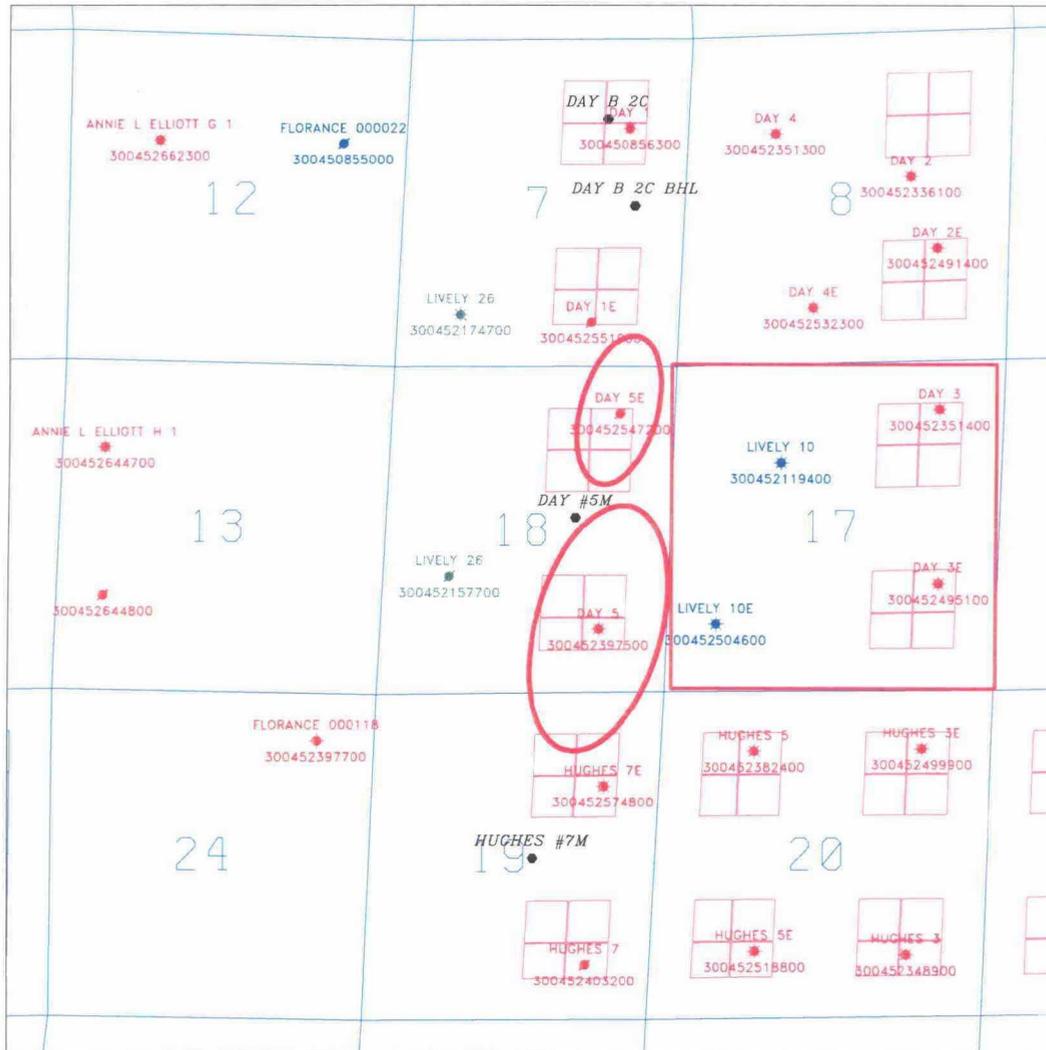
## Attachment 4: Mesaverde Drainage Pattern



The ellipses depict the areas that are being efficiently drained by the existing Blanco Mesaverde wells, based on a 3D reservoir simulation of the area of interest. The reservoir simulator honors the generally accepted NNE-SSW natural fracture pattern in the Basin that results in elliptical drainage areas (Harstad, Teufel, and Lorenz).

Also shown are the boundaries of the well location requirements for a standard Basin Dakota well in the east half of Section 18, per Order # R-10987-B. If the proposed well were drilled to a standard Dakota location in the NE/4 of Section 18, it would be located within the drainage ellipse of the Day B 5 in the Mesaverde and would result in excessive interference with this well.

## Attachment 5: Dakota Drainage Pattern



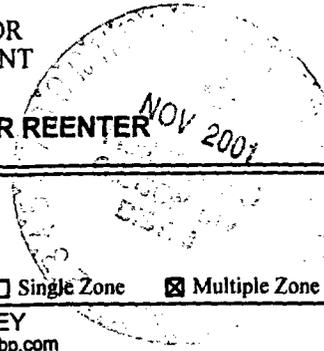
The ellipses depict the areas that are being drained by the existing Basin Dakota wells, based on their estimated ultimate recovery from decline curve analysis. The orientation of drainage ellipses honors the NNE-SSW natural fracture pattern of the San Juan Basin. The proposed well location is outside the drainage areas of the other Dakota producers in Section 18

The Dakota interval in the Day 5E, located in the same quarter section as the proposed well, has been inactive since October 1998. We will PxA the Day 5E prior to drilling the Day 5M.

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FORM APPROVED  
OMB No. 1004-0136  
Expires November 30, 2000

APPLICATION FOR PERMIT TO DRILL OR REENTER



1a. Type of Work: <input checked="" type="checkbox"/> DRILL <input type="checkbox"/> REENTER		5. Lease Serial No. NMSF - 078414 ✓
1b. Type of Well: <input type="checkbox"/> Oil Well <input checked="" type="checkbox"/> Gas Well <input type="checkbox"/> Other <input type="checkbox"/> Single Zone <input checked="" type="checkbox"/> Multiple Zone		6. If Indian, Allottee or Tribe Name
2. Name of Operator AMOCO PRODUCTION COMPANY		7. If Unit or CA Agreement, Name and No.
Contact: MARY CORLEY E-Mail: corley@m@bp.com		8. Lease Name and Well No. DAY 5M
3a. Address P.C. BOX 3092 HOUSTON, TX 77253	3b. Phone No. (include area code) Ph: 281.366.4491 Fx: 281.366.0700	9. API Well No. 30-045-30901
4. Location of Well (Report location clearly and in accordance with any State requirements. *) At surface SWNE Tract G 2425FNL 1425FEL 34.43500 N Lat, 107.42700 W Lon At proposed prod. zone		10. Field and Pool, or Exploratory BASIN DAKOTA/BLANCO MESAVER
14. Distance in miles and direction from nearest town or post office* 19 MILES BLOOMFIELD, NEW MEXICO		11. Sec., T., R., M., or Bk. and Survey or Area G Sec 18 T29N R8W Mer NMP
15. Distance from proposed location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) 12 15' FWL	16. No. of Acres in Lease 320.00	12. County or Parish SAN JUAN
17. Spacing Unit dedicated to this well 320.00 ✓ E/2	13. State NM	18. Distance from proposed location to nearest well, drilling, completed, applied for, on this lease, ft.
19. Proposed Depth 7683 MD	20. BLM/BIA Bond No. on file	21. Elevations (Show whether DF, KB, RT, GL, etc.) 6454 GL
22. Approximate date work will start 02/01/2001	23. Estimated duration	

24. Attachments

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No. 1, shall be attached to this form:

- Well plat certified by a registered surveyor.
- A Drilling Plan.
- A Surface Use Plan (if the location is on National Forest System Lands, the SUPO shall be filed with the appropriate Forest Service Office).
- Bond to cover the operations unless covered by an existing bond on file (see Item 20 above).
- Operator certification
- Such other site specific information and/or plans as may be required by the authorized officer.

25. Signature (Electronic Submission)	Name (Printed/Typed) MARY CORLEY	Date 10/31/2001
Title: AUTHORIZED REPRESENTATIVE		
Approved by (Signature) <i>[Signature]</i>	Name (Printed/Typed)	Date 11/14/01
Title AFM	Office	

Application approval does not warrant or certify the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Conditions of approval, if any, are attached.

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

7-20-01

Additional Operator Remarks (see next page)

Electronic Submission #8377 verified by the BLM Well Information System  
For AMOCO PRODUCTION COMPANY, sent to the Farmington  
Committed to AFMSS for processing by Maurice Johnson on 11/06/2001 ()

This action is subject to technical and procedural review pursuant to 43 CFR 3165.3 and appeal pursuant to 43 CFR 3165.4.

BLM/BLM INFORMATION SYSTEMS ARE SUBJECT TO COMPLIANCE WITH ATTACHED "GENERAL REQUIREMENTS"

\*\* ORIGINAL \*\*

NSL in Basin Dakota

AMOCO

District I  
 PO Box 1980, Hobbs NM 88241-1980  
 District II  
 PO Drawer KK, Artesia, NM 87211-0719  
 District III  
 1000 Rio Brazos Rd., Aztec, NM 87410  
 District IV  
 PO Box 2088, Santa Fe, NM 87304-2088

State of New Mexico  
 Energy, Minerals & Natural Resources Department  
**OIL CONSERVATION DIVISION**  
 PO Box 2088  
 Santa Fe, NM 87504-2088

**WELL LOCATION AND ACREAGE DEDICATION PLAT**

1 API Number <b>30-065-30901</b>		2 Pool Code <b>71599 &amp; 72319</b>		3 Pool Name <b>Basin DAKOTA - BLANCO MESA VERDE</b>	
4 Property Code <b>000417</b>		5 Property Name <b>Day</b>			6 Well Number <b># 5M</b>
7 OGRID No. <b>00077B</b>		8 Operator Name <b>AMOCO PRODUCTION COMPANY</b>			9 Elevation <b>6454</b>

**10 Surface Location**

UL or Lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
<b>G</b>	<b>18</b>	<b>29-N</b>	<b>8 W</b>		<b>2425</b>	<b>NORTH</b>	<b>1425</b>	<b>EAST</b>	<b>SAN JUAN</b>

**11 Bottom Hole Location If Different From Surface**

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County

10 Dedicated Acres <b>3.20</b>	11 Joint or Infill	12 Consolidation Code	13 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**

<p>16</p>	<p>17 OPERATOR CERTIFICATION</p> <p>I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.</p> <p><i>Mary Corley</i>        Signature  <b>MARY CORLEY</b>        Printed Name  <b>Sr. Regulatory Analyst</b>        Title  <b>10.31.01</b>        Date</p>
	<p>18 SURVEYOR CERTIFICATION</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 belief.</p> <p><b>July 5, 2001</b>        Date of Survey        Signature and Seal of Professional Surveyor    <b>7016</b>        Certificate Number</p>



**AMOCO  
PRODUCTION COMPANY**

**Day # 5M**  
NE1/4 Section 18,  
T29N, R8W, N.M.P.M.

200' New BLM Road Construction  
T29N, R8W, Sec.18  
SW1/4NE1/4

APD MAP # 1

**AMOCO PRODUCTION COMPANY  
DRILLING AND COMPLETION PROGRAM**

Prospect Name: Day  
Lease: DAY  
County: San Juan  
State: New Mexico  
Date: October 31, 2001

Well No: 5M  
Surface Location: 18-29N-8W, 2425 FNL, 1425 FEL  
Field: Blanco Mesaverde/Basin Dakota

**OBJECTIVE:** Drill 400' below the base of the Greenhorn Limestone, set 4 1/2" production casing, Stimulate CH, MF, PL and DK intervals

METHOD OF DRILLING		APPROXIMATE DEPTHS OF GEOLOGICAL MARKER				
TYPE OF TOOLS	DEPTH OF DRILLING	Estimated GL: 6454		Estimated KB: 6468		
Rotary	0 - TD	MARKER		SUBSEA	MEAS. DEPTH	
<b>LOG PROGRAM</b>		Ojo Alamo		4473	1995	
<b>TYPE</b>	<b>DEPTH INTERVAL</b>	Fruitland Coal	*	3612	2856	
<u>OPEN HOLE</u>		Pictured Cliffs	*	3384	3084	
GR-Induction	TD to 7" shoe	Lewis Shale	#	3295	3173	
Der.sity/Neutron	TD to 7" shoe	Cliff House	#	1778	4690	
<u>CASED HOLE</u>		Menefee Shale	#	1634	4834	
GR-CCL-TDT	TDT - TD to 7" shoe	Point Lookout	#	1174	5294	
CBL	Identify 4 1/2" cement top	Mancos		881	5587	
<b>REMARKS:</b> - Please report any flares (magnitude & duration).		Greenhorn		-815	7283	
		Bentonite Marker		-871	7339	
		Two Wells	#	-912	7380	
		Dakota MB	#	-1044	7512	
		Burro Canyon	*	-1121	7589	
		Morrison	*	-1271		
		<b>TOTAL DEPTH</b>		<b>-1215</b>	<b>7683</b>	
			# Probable completion interval		* Possible Pay	
	<b>SPECIAL TESTS</b>		<b>DRILL CUTTING SAMPLES</b>		<b>DRILLING TIME</b>	
	<b>TYPE</b>		<b>FREQUENCY</b>	<b>DEPTH</b>	<b>FREQUENCY</b>	<b>DEPTH</b>
None		10 feet	Production hole	Geolograph	0-TD	
<b>REMARKS:</b>						

MUD PROGRAM:						
Approx. Interval	Type Mud	Weight, #/ga	Vis, sec/qt	W/L cc's/30 min	Other Specification	
0 - 200	Spud	8.6-9.2				
200 - 3273 (1)	Water/LSND	8.6-9.2		<6		
3273 - 7683	Gas/Air/N2/Mist	Volume sufficient to maintain a stable and clean wellbore				

**REMARKS:**  
(1) The hole will require sweeps to keep unloaded while fresh water drilling. Let hole conditions dictate frequency.

CASING PROGRAM: (Normally, tubular goods allocation letter specifies casing sizes to be used. Hole sizes will be governed by Contract)						
Casing String	Estimated Depth	Casing Size	Grade	Weight	Hole Size	Landing Pt, Cmt, Etc.
Surface/Conductor	200	9 5/8"	H-40 ST&C	32#	12.25"	1
Intermediate 1	3273	7"	J/K-55 ST&C	20#	8.75"	1,2
Production	7683	4 1/2"	J-55	11.6#	6.25"	3

**REMARKS:**  
(1) Circulate Cement to Surface  
(2) Set casing 100' into Lewis Shale  
(3) Bring cement 100' above 7" shoe

**CORING PROGRAM:**  
None

**COMPLETION PROGRAM:**  
Rigless, 4-6 Stage Limited Entry Hydraulic Frac

**GENERAL REMARKS:**  
Notify BLM/NMOC D 24 hours prior to Spud, BOP testing, and Casing and Cementing.

Form 46 Reviewed by: \_\_\_\_\_ Logging program reviewed by: N/A

**PREPARED BY:** \_\_\_\_\_ **APPROVED:** \_\_\_\_\_ **DATE:** 29 October 2001  
Version 1.0

HGJ/MNP  
Form 46 12-00 MNP

# Amoco Production Company BOP Pressure Testing Requirements

Well Name: Day  
County: San Juan

5M  
State: New Mexico

Formation	TVD	Anticipated Bottom Hole Pressure	Maximum Anticipated Surface Pressure **
Ojo Alamo	1995		
Fruitland Coal	2856		
PC	3084		
Lewis Shale	3173		
Cliff House	4690	500	0
Menefee Shale	4834		
Point Lookout	5294	600	0
Mancos	5587		
Dakota	7380	2600	1371

\*\* Note: Determined using the following formula:  $ABHP - (.22 * TVD) = ASP$

Requested BOP Pressure Test Exception: 3000 psi

## SAN JUAN BASIN Dakota Formation Pressure Control Equipment

### Background

The objective Dakota formation maximum surface pressure is anticipated to be less than 1000 PSI, based on shut-in surface pressures from adjacent wells. Pressure control equipment working pressure minimum requirements are therefore 2000 PSI. Equipment to be used will conform to API RP-53 (Figure 2.C.2) for a 2000 PSI system per Federal Onshore Order No. 2. Due to available conventional equipment within the area, 3000 PSI rated pressure control equipment will typically be utilized in a double ram type arrangement. Regional drilling rights to be utilized have substructure height limitations which exclude the use of annular preventers; therefore a rotating head will be installed above these rams. This pressure control equipment will be utilized for conventional drilling below conductor to total depth in the Basin Dakota. No abnormal temperature, pressure, or H2S anticipated.

### Equipment Specification

#### Interval

Below conductor casing to total depth

#### BOP Equipment

11" nominal or 7 1/16", 3000 PSI  
double ram preventer with rotating head.

All ram type preventers and related control equipment will be hydraulically tested to 250 PSI (low pressure) and 2000 PSI (high pressure), upon installation, following any repairs or equipment replacements, or at 30 day intervals. Accessories to BOP equipment will include kelly cock,

CMD :  
OG5ECT

ONGARD  
INQUIRE LAND BY SECTION

01/28/02 12:02:  
OGOMES -TQ  
PAGE NO:

Sec : 18 Twp : 29N Rng : 08W Section Type : NORMAL

1 18.17	C 40.00	B 40.00	A 40.00
Federal owned	Federal owned A A A	Federal owned	Federal owned A A A A
2 18.06	F 40.00	G 40.00	H 40.00
Federal owned	Federal owned A	Federal owned A	Federal owned

PF01 HELP    PF02            PF03 EXIT    PF04 GoTo    PF05            PF06  
PF07 BKWD    PF08 FWD       PF09 PRINT   PF10 SDIV     PF11            PF12

CMD :  
OG5SECT

ONGARD  
INQUIRE LAND BY SECTION

01/28/02 12:02:  
OGOMES -TQ  
PAGE NO:

Sec : 18 Twp : 29N Rng : 08W Section Type : NORMAL

3 17.96  Federal owned	K 40.00  Federal owned	J 40.00  Federal owned A	I 40.00  Federal owned A
4 17.85  Federal owned	N 40.00  Federal owned A	O 40.00  Federal owned	P 40.00  Federal owned A

PF01 HELP    PF02            PF03 EXIT    PF04 GoTo    PF05            PF06  
PF07 BKWD   PF08 FWD      PF09 PRINT   PF10 SDIV     PF11            PF12

CMD :  
OG6IWCM

ONGARD  
INQUIRE WELL COMPLETIONS

01/28/02 12:03:  
OGOMES -TQ

API Well No : 30 45 25472 Eff Date : 05-01-1983 WC Status : A  
Pool Idn : 71599 BASIN DAKOTA (PRORATED GAS)  
OGRID Idn : 778 BP AMERICA PRODUCTION COMPANY  
Prog Idn : 417 DAY

Well No : 005E  
GL Elevation: 6413

	U/L	Sec	Township	Range	North/South	East/West	Prop/Act (P/
	---	---	-----	-----	-----	-----	-----
B.H. Locn	: A	18	29N	08W	FTG 790 F N	FTG 790 F E	P

Lot Identifier:  
Dedicated Acre: 320.00  
Lease Type : F  
Type of consolidation (Comm, Unit, Forced Pooling - C/U/F/O) :

M0025: Enter PF keys to scroll

PF01 HELP      PF02              PF03 EXIT      PF04 GoTo      PF05              PF06  
PF07              PF08              PF09              PF10 NEXT-WC   PF11 HISTORY   PF12 NXTREC

*Last Produced  
Feb. 1998*

CMD : ONGARD 01/28/02 12:03:  
OG6ACRE C102-DEDICATE ACREAGE OGOMES -TQ  
Page No :

API Well No : 30 45 25472 Eff Date : 04-30-1991  
Pocl Idn : 71599 BASIN DAKOTA (PRORATED GAS)  
Prcp Idn : 417 DAY Well No : 00  
Spacing Unit : 32317 OCD Order : Simultaneous Dedication:  
Sect/Twp/Rng : Acreage : 320.00 Revised C102? (Y/N) :  
Dedicated Land:

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S	Base	U/L	Sec	Twp	Rng	Acreage	L/W	Ownership	Lot	Idn
	A		18	29N	08W	40.00	N	FD		
	B		18	29N	08W	40.00	N	FD		
	G		18	29N	08W	40.00	N	FD		
	H		18	29N	08W	40.00	N	FD		
	I		18	29N	08W	40.00	N	FD		
	J		18	29N	08W	40.00	N	FD		
	O		18	29N	08W	40.00	N	FD		
	P		18	29N	08W	40.00	N	FD		

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E0005: Enter data to modify or PF keys to scroll  
PF01 HELP PF02 PF03 EXIT PF04 GoTo PF05 PF06 CONFIRM  
PF07 BKWD PF08 FWD PF09 PF10 LAND PF11 NXTSEC PF12 RECONF

CMD :  
OG6IPRD

ONGARD  
INQUIRE PRODUCTION BY POOL/WELL

01/28/02 12:05:  
OGOMES -TQ  
Page No:

OGRID Identifier : 778 BP AMERICA PRODUCTION COMPANY  
Pool Identifier : 71599 BASIN DAKOTA (PRORATED GAS)  
API Well No : 30 45 25472 Report Period - From : 01 1996 To : 12 2001

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API Well No	Property Name	Prod. Days MM/YY Prod	Production Volumes Gas Oil Water	We St
30 45 25472	DAY	01 96 31	1198	F
30 45 25472	DAY	02 96 29	534	F
30 45 25472	DAY	03 96 31	1140	F
30 45 25472	DAY	04 96 30	1279	F
30 45 25472	DAY	05 96 31	1241 10	F
30 45 25472	DAY	06 96 27	863	F
30 45 25472	DAY	07 96 31	1247	F

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Reporting Period Total (Gas, Oil) :

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M0025: Enter PF keys to scroll

PF01 HELP      PF02              PF03 EXIT      PF04 GoTo      PF05              PF06 CONFIRM  
PF07 BKWD      PF08 FWD          PF09              PF10 NXTPOOL   PF11 NXTOGD      PF12

CMD : ONGARD 01/28/02 12:05:  
OG6IPRD INQUIRE PRODUCTION BY POOL/WELL OGOMES -TQ  
Page No:

OGRID Identifier : 778 BP AMERICA PRODUCTION COMPANY  
Pool Identifier : 71599 BASIN DAKOTA (PRORATED GAS)  
API Well No : 30 45 25472 Report Period - From : 01 1996 To : 12 2001

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API Well No	Property Name	Prod.	Days	Production Volumes			We
		MM/YY	Prod	Gas	Oil	Water St	
30 45 25472	DAY	08 96	31	976	2	F	
30 45 25472	DAY	09 96	30	1297		F	
30 45 25472	DAY	10 96	31	1135	8	F	
30 45 25472	DAY	11 96	30	1092		F	
30 45 25472	DAY	12 96	31	573		F	
30 45 25472	DAY	01 97	31	891		F	
30 45 25472	DAY	02 97	28	817		F	

---

Reporting Period Total (Gas, Oil) :

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E0049: User may continue scrolling.

PF01 HELP PF02 PF03 EXIT PF04 GoTo PF05 PF06 CONFIRM  
PF07 BKWD PF08 FWD PF09 PF10 NXTPOOL PF11 NXTOGD PF12

CMD :  
OG6IPRD

ONGARD  
INQUIRE PRODUCTION BY POOL/WELL

01/28/02 12:05:  
OGOMES -TQ  
Page No:

OGRID Identifier : 778 BP AMERICA PRODUCTION COMPANY  
Pool Identifier : 71599 BASIN DAKOTA (PRORATED GAS)  
API Well No : 30 45 25472 Report Period - From : 01 1996 To : 12 2001

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API Well No	Property Name	Prod.	Days	Production Volumes	We		
		MM/YY	Prod	Gas	Oil	Water	St
30 45 25472	DAY	03 97	31	689	3		F
30 45 25472	DAY	04 97	30	658			F
30 45 25472	DAY	05 97	31	107	5		F
30 45 25472	DAY	06 97	20	676			F
30 45 25472	DAY	07 97	31	885			F
30 45 25472	DAY	08 97	31	596			F
30 45 25472	DAY	09 97	30	707			F

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Reporting Period Total (Gas, Oil) :

E0049: User may continue scrolling.

PF01 HELP      PF02              PF03 EXIT      PF04 GoTo      PF05              PF06 CONFIRM  
PF07 BKWD      PF08 FWD          PF09              PF10 NXTPOOL   PF11 NXTOGD      PF12

CMD :  
OG6IPRD

ONGARD  
INQUIRE PRODUCTION BY POOL/WELL

01/28/02 12:05:  
OGOMES -TQ  
Page No:

OGRID Identifier : 778 BP AMERICA PRODUCTION COMPANY  
Pool Identifier : 71599 BASIN DAKOTA (PRORATED GAS)  
API Well No : 30 45 25472 Report Period - From : 01 1996 To : 12 2001

API Well No	Property Name	Prod. Days MM/YY Prod	Production Volumes Gas Oil Water	We St
30 45 25472	DAY	10 97 31	770	F
30 45 25472	DAY	11 97 30	610	F
30 45 25472	DAY	12 97 31	167	F
30 45 25472	DAY	01 98 31	385	F
30 45 25472	DAY	02 98 17	56	F
30 45 25472	DAY	03 98		S
30 45 25472	DAY	04 98		S

Reporting Period Total (Gas, Oil) :

E0049: User may continue scrolling.

PF01 HELP PF02 PF03 EXIT PF04 GoTo PF05 PF06 CONFIRM  
PF07 BKWD PF08 FWD PF09 PF10 NXTPOOL PF11 NXTOGD PF12

CMD :  
OG6IPRD

ONGARD  
INQUIRE PRODUCTION BY POOL/WELL

01/28/02 12:05:  
OGOMES -TQ  
Page No:

OGRID Identifier : 778 BP AMERICA PRODUCTION COMPANY  
Pool Identifier : 71599 BASIN DAKOTA (PRORATED GAS)  
API Well No : 30 45 25472 Report Period - From : 01 1996 To : 12 2001

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API Well No	Property Name	Prod. Days MM/YY Prod	Production Volumes Gas Oil Water	We St
30 45 25472	DAY	05 98		S
30 45 25472	DAY	06 98		S
30 45 25472	DAY	07 98		S
30 45 25472	DAY	08 98		S
30 45 25472	DAY	09 98		S
30 45 25472	DAY	10 98		80 S
30 45 25472	DAY	11 98		S

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Reporting Period Total (Gas, Oil) :

E0049: User may continue scrolling.

PF01 HELP      PF02              PF03 EXIT      PF04 GoTo      PF05              PF06 CONFIRM  
PF07 BKWD      PF08 FWD          PF09              PF10 NXTPOOL PF11 NXTOGD      PF12

CMD : ONGARD 01/28/02 12:05:  
OG6IPRD INQUIRE PRODUCTION BY POOL/WELL OGOMES -TQ  
Page No:

OGRID Identifier : 778 BP AMERICA PRODUCTION COMPANY  
Pool Identifier : 71599 BASIN DAKOTA (PRORATED GAS)  
API Well No : 30 45 25472 Report Period - From : 01 1996 To : 12 2001

API Well No	Property Name	Prod. Days MM/YY Prod	Production Volumes Gas Oil Water	We St
30 45 25472	DAY	12 98		S
30 45 25472	DAY	01 99		S
30 45 25472	DAY	02 99		S
30 45 25472	DAY	03 99		S
30 45 25472	DAY	04 99		S
30 45 25472	DAY	05 99		S
30 45 25472	DAY	06 99		S

Reporting Period Total (Gas, Oil) :

E0049: User may continue scrolling.

PF01 HELP PF02 PF03 EXIT PF04 GoTo PF05 PF06 CONFIRM  
PF07 BKWD PF08 FWD PF09 PF10 NXTPOOL PF11 NXTOGD PF12

CMD : ONGARD 01/28/02 12:05:  
OG6IPRD INQUIRE PRODUCTION BY POOL/WELL OGOMES -TQ  
Page No:

OGRID Identifier : 778 BP AMERICA PRODUCTION COMPANY  
Pool Identifier : 71599 BASIN DAKOTA (PRORATED GAS)  
API Well No : 30 45 25472 Report Period - From : 01 1996 To : 12 2001

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API Well No	Property Name	Prod. Days MM/YY Prod	Production Volumes Gas Oil Water	We St
30 45 25472	DAY	07 99		S
30 45 25472	DAY	08 99		S
30 45 25472	DAY	09 99		S
30 45 25472	DAY	10 99		S
30 45 25472	DAY	11 99		S
30 45 25472	DAY	12 99		S
30 45 25472	DAY	01 00		S

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Reporting Period Total (Gas, Oil) :

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E0049: User may continue scrolling.

PF01 HELP PF02 PF03 EXIT PF04 GoTo PF05 PF06 CONFIRM  
PF07 BKWD PF08 FWD PF09 PF10 NXTPOOL PF11 NXTOGD PF12

CMD : ONGARD 01/28/02 12:05:  
OG61PRD INQUIRE PRODUCTION BY POOL/WELL OGOMES -TQ  
Page No:

OGRID Identifier : 778 BP AMERICA PRODUCTION COMPANY  
Pool Identifier : 71599 BASIN DAKOTA (PRORATED GAS)  
API Well No : 30 45 25472 Report Period - From : 01 1996 To : 12 2001

API Well No	Property Name	Prodn. Days MM/YY Prod	Production Volumes Gas Oil Water St	We
30 45 25472	DAY	02 00		S
30 45 25472	DAY	03 00		S
30 45 25472	DAY	04 00		S
30 45 25472	DAY	05 00		S
30 45 25472	DAY	06 00		S
30 45 25472	DAY	07 00		S
30 45 25472	DAY	08 00		S

Reporting Period Total (Gas, Oil) :

E0049: User may continue scrolling.

PF01 HELP PF02 PF03 EXIT PF04 GoTo PF05 PF06 CONFIRM  
PF07 BKWD PF08 FWD PF09 PF10 NXTPOOL PF11 NXTOGD PF12

CMD : ONGARD 01/28/02 12:05:  
OG6IPRD INQUIRE PRODUCTION BY POOL/WELL OGOMES -TQ  
Page No:

OGRID Identifier : 778 BP AMERICA PRODUCTION COMPANY  
Pool Identifier : 71599 BASIN DAKOTA (PRORATED GAS)  
API Well No : 30 45 25472 Report Period - From : 01 1996 To : 12 2001

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API Well No	Property Name	Prod. Days MM/YY Prod	Production Volumes Gas Oil Water	We St
30 45 25472	DAY	09 00		S
30 45 25472	DAY	10 00		S
30 45 25472	DAY	11 00		S
30 45 25472	DAY	12 00		S
30 45 25472	DAY	01 01		S
30 45 25472	DAY	02 01		S
30 45 25472	DAY	03 01		F

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Reporting Period Total (Gas, Oil) :

E0049: User may continue scrolling.

PF01 HELP PF02 PF03 EXIT PF04 GoTo PF05 PF06 CONFIRM  
PF07 BKWD PF08 FWD PF09 PF10 NXTPOOL PF11 NXTOGD PF12

CMD : ONGARD 01/28/02 12:05:  
OG6IPRD INQUIRE PRODUCTION BY POOL/WELL OGOMES -TQ  
Page No: 1

OGRID Identifier : 778 BP AMERICA PRODUCTION COMPANY  
Pool Identifier : 71599 BASIN DAKOTA (PRORATED GAS)  
API Well No : 30 45 25472 Report Period - From : 01 1996 To : 12 2001

API Well No	Property Name	Prodn. Days MM/YY Prod	Production Volumes Gas Oil Water	We St
30 45 25472	DAY	04 01		S
30 45 25472	DAY	05 01		F
30 45 25472	DAY	06 01		S

Reporting Period Total (Gas, Oil) : 20589 28 80

E0049: User may continue scrolling.

PF01 HELP PF02 PF03 EXIT PF04 GoTo PF05 PF06 CONFIRM  
PF07 BKWD PF08 FWD PF09 PF10 NXTPOOL PF11 NXTOGD PF12

CMD : ONGARD 01/28/02 12:03:  
OG6C101 C101-APPLICATION FOR PERMIT TO DRILL OGOMES -TQ

OGRID Idn : 778 API Well No: 30 45 30901 APD Status(A/C/P): A  
Opr Name, Addr: BP AMERICA PRODUCTION COMPANY Aprvl/Cncl Date : 11-14-20  
PO BOX 22048  
TULSA,OK 74121

Proj Idn: 417 DAY Well No: 5 M

	U/L	Sec	Township	Range	Lot	Idn	North/South	East/West
Surface Locn	: G	18	29N	08W			FTG 2425 F N	FTG 1425 F E
OCD U/L	: G		API County	: 45				

Work typ(N/E/D/P/A) : N Well typ(O/G/M/I/S/W/C): G Cable/Rotary (C/R) :  
Lease typ(F/S/P/N/J/U/I): F Ground Level Elevation : 6454

State Lease No: Multiple Comp (S/M/C) : M  
Prpsd Depth : 7683 Prpsd Frmtn : BASIN DK/BLANCO MV

E0009: Enter data to modify record

PF01 HELP	PF02	PF03 EXIT	PF04 GoTo	PF05	PF06 CONFIRM
PF07	PF08	PF09 PRINT	PF10 C102	PF11 HISTORY	PF12

CMD :  
OG6IWCM

ONGARD  
INQUIRE WELL COMPLETIONS

01/28/02 12:04:  
OGOMES -TQ

API Well No : 30 45 23975 Eff Date : 08-01-1980 WC Status : A  
Pool Idn : 71599 BASIN DAKOTA (PRORATED GAS)  
OGRID Idn : 778 BP AMERICA PRODUCTION COMPANY  
Prog Idn : 417 DAY

Well No : 005  
GL Elevation: 6465

	U/L	Sec	Township	Range	North/South	East/West	Prop/Act (P/
	---	---	-----	-----	-----	-----	-----
B.H. Locn	: P	18	29N	08W	FTG 990 F S	FTG 990 F E	P

Lot Identifier:

Dedicated Acre: 320.00

Lease Type : F

Type of consolidation (Comm, Unit, Forced Pooling - C/U/F/O) :

M0025: Enter PF keys to scroll

PF01 HELP	PF02	PF03 EXIT	PF04 GoTo	PF05	PF06
PF07	PF08	PF09	PF10 NEXT-WC	PF11 HISTORY	PF12 NXTREC

CMD : ONGARD 01/28/02 12:04:  
OG67.CRE C102-DEDICATE ACREAGE OGOMES -TQ  
Page No :

API Well No : 30 45 23975 Eff Date : 04-30-1991  
Pool Idn : 71599 BASIN DAKOTA (PRORATED GAS)  
Prop Idn : 417 DAY Well No : 00  
Spacing Unit : 32317 OCD Order : Simultaneous Dedication:  
Sect/Twp/Rng : Acreage : 320.00 Revised C102? (Y/N) :  
Dedicated Land:

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S	Base	U/L	Sec	Twp	Rng	Acreage	L/W	Ownership	Lot	Idn
	A		18	29N	08W	40.00	N	FD		
	B		18	29N	08W	40.00	N	FD		
	G		18	29N	08W	40.00	N	FD		
	H		18	29N	08W	40.00	N	FD		
	I		18	29N	08W	40.00	N	FD		
	J		18	29N	08W	40.00	N	FD		
	O		18	29N	08W	40.00	N	FD		
	P		18	29N	08W	40.00	N	FD		

---

E0005: Enter data to modify or PF keys to scroll  
PF01 HELP PF02 PF03 EXIT PF04 GoTo PF05 PF06 CONFIRM  
PF07 BKWD PF08 FWD PF09 PF10 LAND PF11 NXTSEC PF12 RECONF

CMD :  
OG61PRD

ONGARD  
INQUIRE PRODUCTION BY POOL/WELL

01/28/02 12:04:  
OGOMES -TQ  
Page No:

OGRJD Identifier : 778 BP AMERICA PRODUCTION COMPANY  
Pool Identifier : 71599 BASIN DAKOTA (PRORATED GAS)  
API Well No : 30 45 23975 Report Period - From : 01 2000 To : 12 2001

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API Well No	Property Name	Prod.	Days	Production Volumes			We
		MM/YY	Prod	Gas	Oil	Water St	
30 45 23975	DAY	01 00	31	1210	1	F	
30 45 23975	DAY	02 00	29	1050		F	
30 45 23975	DAY	03 00	31	1099	2	F	
30 45 23975	DAY	04 00	30	1401	2	F	
30 45 23975	DAY	05 00	31	1478		F	
30 45 23975	DAY	06 00	25	1293		F	
30 45 23975	DAY	07 00	31	1539	1	F	

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Reporting Period Total (Gas, Oil) :

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M0025: Enter PF keys to scroll

PF01 HELP      PF02              PF03 EXIT      PF04 GoTo      PF05              PF06 CONFIRM  
PF07 BKWD      PF08 FWD          PF09              PF10 NXTPOOL   PF11 NXTOGD      PF12

CMD : ONGARD 01/28/02 12:04:  
OG61PRD INQUIRE PRODUCTION BY POOL/WELL OGOMES -TQ  
Page No:

OGR1D Identifier : 778 BP AMERICA PRODUCTION COMPANY  
Pool Identifier : 71599 BASIN DAKOTA (PRORATED GAS)  
API Well No : 30 45 23975 Report Period - From : 01 2000 To : 12 2001

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API Well No	Property Name	Prodn. Days MM/YY Prod	Production Volumes Gas Oil Water St	We
30 45 23975	DAY	08 00 31	1541	F
30 45 23975	DAY	09 00 30	1551	F
30 45 23975	DAY	10 00 31	1665 2	F
30 45 23975	DAY	11 00 30	1276	F
30 45 23975	DAY	12 00 31	1553 3	F
30 45 23975	DAY	01 01 31	1526 2	F
30 45 23975	DAY	02 01 28	1273 2	F

---

Reporting Period Total (Gas, Oil) :

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E0049: User may continue scrolling.

PF01 HELP PF02 PF03 EXIT PF04 GoTo PF05 PF06 CONFIRM  
PF07 BKWD PF08 FWD PF09 PF10 NXTPOOL PF11 NXTOGD PF12

CMD : ONGARD 01/28/02 12:04:  
OG61PRD INQUIRE PRODUCTION BY POOL/WELL OGOMES -TQ  
Page No:

OGRJD Identifier : 778 BP AMERICA PRODUCTION COMPANY  
Pool Identifier : 71599 BASIN DAKOTA (PRORATED GAS)  
API Well No : 30 45 23975 Report Period - From : 01 2000 To : 12 2001

---

API Well No	Property Name	Prod.	Days	Production Volumes			We
		MM/YY	Prod	Gas	Oil	Water St	
30 45 23975	DAY	03 01	31	1302	3	F	
30 45 23975	DAY	04 01	28	1297	2	F	
30 45 23975	DAY	05 01	31	1976	3	F	
30 45 23975	DAY	06 01	30	1817		F	
30 45 23975	DAY	07 01	31	2023		F	
30 45 23975	DAY	08 01	31	2094	2	F	
30 45 23975	DAY	09 01	30	2106	1	F	

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Reporting Period Total (Gas, Oil) :

E0049: User may continue scrolling.

PF01 HELP PF02 PF03 EXIT PF04 GoTo PF05 PF06 CONFIRM  
PF07 BKWD PF08 FWD PF09 PF10 NXTPOOL PF11 NXTOGD PF12

CMD : ONGARD 01/28/02 12:04:  
OG61PRD INQUIRE PRODUCTION BY POOL/WELL OGOMES -TQ  
Page No:

OGRID Identifier : 778 BP AMERICA PRODUCTION COMPANY  
Pool Identifier : 71599 BASIN DAKOTA (PRORATED GAS)  
API Well No : 30 45 23975 Report Period - From : 01 2000 To : 12 2001

API Well No	Property Name	Prodn. Days MM/YY Prod	Production Volumes Gas Oil Water St	We
30 45 23975	DAY	10 01 29	1339	F
30 45 23975	DAY	11 01 30	1079 2	F

Reporting Period Total (Gas, Oil) : 34488 28

E0049: User may continue scrolling.

PF01 HELP PF02 PF03 EXIT PF04 GoTo PF05 PF06 CONFIRM  
PF07 BKWD PF08 FWD PF09 PF10 NXTPOOL PF11 NXTOGD PF12