

Southern

Rockies

Business

Unit-

September 20, 1996

Mr. William J. LeMay, Director New Mexico Oil Conservation Division 2040 S. Pacheco Street P. O. Box 6429 Santa Fe, NM 87505

Application for Exception to Rule 303-A
Downhole Commingling
Hughes A #1E Well
Unit E Section 27-T29N-R8W
Basin Dakota and Blanco Mesaverde Pools
San Juan County, New Mexico

Enclosed please find an administrative application form (C-107-A) and attachments for downhole commingling for the captioned well. By copy of this application by certified mail, return receipt requested, Amoco is notifying all offset operators in the formations captioned above as well as all affected interest owners if the ownership of those formations is not common. The Division Director may approve the proposed downhole commingling in the absence of a valid objection from any offset operator or any interest owner in those instances where ownership is not common in the zones to be commingled within 20 days after the receipt of the application if, in his opinion, waste will not result thereby, and correlative rights will not be violated.

Should there be questions concerning this matter, please contact me at (303) 830-5344.

Sincerely.

Pamela W. Staley

**Enclosures** 

cc:

Stan Kolodzie Pat Archuleta Wellfile

Proration File

Frank Chavez, Supervisor NMOCD District III 1000 Rio Brazos Road Aztec, NM 87410 Duane Spencer Bureau of Land Management 1235 La Plata Hwy. Farmington, NM 87401

# State of New Mexico Energy, Minerals and Natural Resources Department

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

### **OIL CONSERVATION DIVISION**

APPROVAL PROCESS:

DISTRICT II 811 South First St., Artesia , NM 88210-2835

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

X Administrative \_\_ Hearing

DISTRICT III

1000 Rio Brazos Rd. Aztec, NM 87410-1693

APPLICATION FOR DOWNHOLE COMMINGLING

**EXISTING WELLBORE** × YES \_\_ NO

Amoco Production Company Operator		P.O. Box 800 Denver, CO 802	01				
HUGHES A	1E	E-27-29N-8W San Juan					
Lease	Well No.	Unit Ltr Sec Twp - Rge	County				
OGRID NO. 000778 Property Code	000701 API NO. 300452	·	acing Unit Lease Types: (check 1 or more)  x State (and/or) Fee				
The following facts are submitted in support of downhole commingling:	Upper Zone	Intermediate Zone	Lower Zone				
	BLANCO MESAVERDE		BASIN DAKOTA				
Pool Name and     Pool Code	72319		71599				
Top and Bottom of     Pay Section (Perforations)	4654' - 5434' PROPOSED		7308' - 7534'				
Type of production     (Oil or Gas)	GAS		GAS				
Method of Production     (Flowing or Artificial Lift)	FLOWING		FLOWING				
Bottomhole Pressure     Oil Zones - Artificial Lift:     Estimated Current	(Current) 598 PSI	a.	a. 1151 PSI				
Gas & Oil - Flowing:  Measured Current All Gas Zones: Estimated or Measured Original	(Original) 1259 PSI b.	b.	b. 2568 PSI				
Estimated of moderated Original	<del> </del>						
6. Oil Gravity (° API) or Gas BTU Content	1190 BTU		1234 BTU				
7. Producing or Shut-In?	NEW		PRODUCING				
Production Marginal? (yes or no)	NO		YES				
If Shut-In, give data and oil/gas/water	Date:	Date	Date				
rates of last production  Note: For new zones with no production history, applicant	Rates:	Rates:	Rates:				
shall be required to attach production estimates and supporting data							
If Producing, give date and	ESTIMATED Date: 500 MCFD	Date:	8/96 Date: 18 MCFD				
oil/gas/water rates of recent test (within 60 days)	5 BCPD 1 BWPD	Rates:	0.2 BCPD 0.2 BWPD				
Fixed Percentage Allocation     Formula -% for each zone	Oil: 96	Oil: Gas %: %	Oil: 4 Gas %				
	n something other than current or past method and providing rate projections	production, or is based upon some other r or other required data.	nethod, submit attachments with				
If not, have all working, overriding,	yalty interests identical in all commingl , and royalty interests been notified by en written notice of the proposed down	certified mail?	_X_ Yes No Yes No _X_ Yes No				
11. Will cross-flow occur? Yes _> and will the allocation formula be r	11. Will cross-flow occur? Yes _X_ 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 reliableYes No (If No, attach explanation)						
12. Are all produced fluids from all cor	12. Are all produced fluids from all commingled zones compatible with each other?X_Yes No						
13. Will the value of production be decreased by commingling?Yes _X_No (If Yes, attach explanation)							
15. 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.  _X_ Yes No SF-078049							
<ul> <li>16. ATTACHMENTS:</li> <li>* C-102 for each zone to be commingled showing its spacing unit and acreage dedication.</li> <li>* Production curve for each zone for at least one year. (If not available, attach explanation.)</li> <li>* For zones with no production history, estimated production rates and supporting data.</li> <li>* Data to support allocation method or formula. SEE ATTACHED</li> <li>* Notification list of all offset operators.</li> <li>* Notification list of working, overriding, and royalty interests for uncommon interest cases.</li> <li>* Any additional statements, data, or documents required to support commingling.</li> </ul>							
I hereby certify that the information ab	ove is true and complete to the best of	f my knowledge and belief.					
SIGNATURE Zames	Abley_	TITLE REGULATORY AFFAIRS	ENGR DATE 9/15/96				
TYPE OR PRINT NAME PAMELA	W. STALEY	TELEPHONE NO. ( 30)					

District I PO Box 1980, Hobbs, NM 88241-1980 District II 811 South First, Artesia, NM 88210 District III 1000 Rio Brazos Rd., Aztec, NM 87410

District IV

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

OIL CONSERVATION DIVISION 2040 South Pacheco Santa Fe, NM 87505

Form C-102 Revised October 18, 1994 Instructions on back

Submit to Appropriate District Office State Lease - 4 Copies

Fee Lease - 3 Copies

MENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT  AM Number   Pool Code	2040 South Pache	co, Santa F	e, NM 87505	\$					L	AMEN	DED REPORT
Property Cade   O00770				ELL LO			EAGE DEDI				
Property Code   DOPT   Hughes A   Property Name   Property N						• }	n1		ame		
Highes A   Operator Name   O			459		72319			Mesaverde			
*** Ingites A ***  *** Operator Name**  *** Operator Name**  *** Section 320  ***  *** Surface Location  UL or let ao. Section 27 29N 8W		Code		77	.1 A	' Property	roperty Name				
One   Description   Company   One				Hug	nes A			·			
UL or let ac. 27 29N 8W 19 1810 North 1080 West San Juan  "Bottom Hole Location If Different From Surface  UL or let ac. 27 29N 8W 19 1810 North 1080 West San Juan  "Bottom Hole Location If Different From Surface  UL or let ac. Section Township Reage Let Idn Feet from the North/South line Feet from the East/West line County  "Dedicated Acres "Joint or Infill" "Consolidation Code" "Order No. 320.00 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  16 17 OPERATOR CERTIFICATION Interest or only heat of any howeledge and helical from and complete to the heat of any howeledge and helical from the control of the heat of any howeledge and helical from the control of the heat of any heat of correct to the heat of any heat of source.  1080 19 19 19 19 19 19 19 19 19 19 19 19 19		No.		<b>.</b> 1		-	Name	}			
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# STATE OF NEW MEXICO CHERGY AND MINERALS DEFARTMENT

## OIL CONSERVATION DIVISION

#### P. O. BOX ZUBB

#### SANTA FE, NEW MEXICO 87501

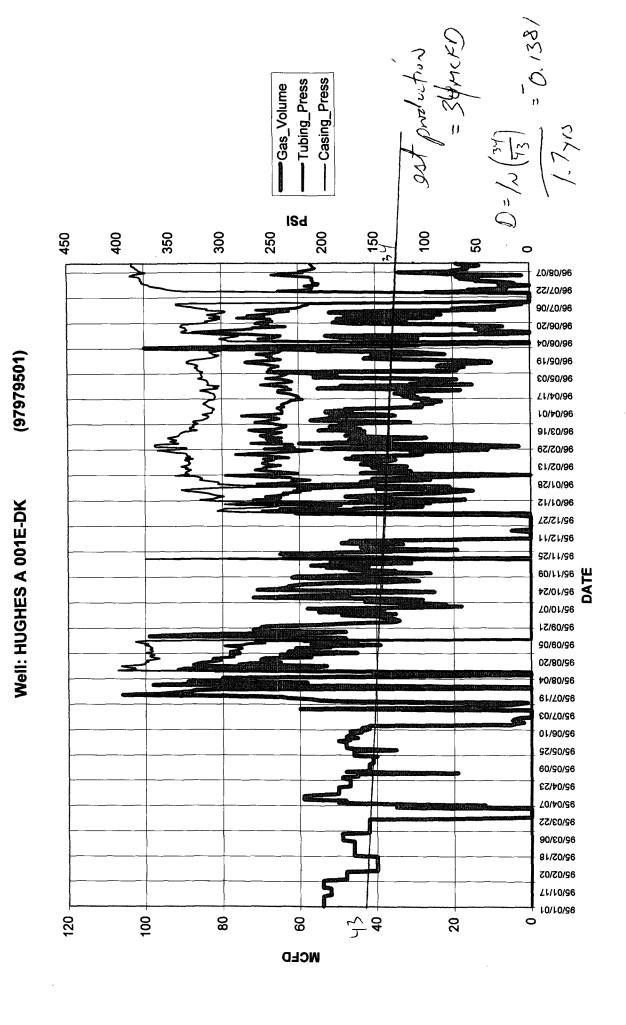
form C-102 kevised lu-1-18

All distances must be from the cuter houselettes of the Section.

Operator					Lease			_	Well No.	
TENNECO OIL	COM	PANY			HUGH	S "A"				3
Unit Letter	Sect	lon	Township		Romge		County	÷		
E		27	291	1		8W	San	Juan		
Actual Footage Loc	ation				_				•	
1810	1ee	from the No	orth	line and	1080	fee	t from the	West	: line	
Ground Level Elev.		Producing For	nation		Pool				Dedicated Acrea	je;
6435		Da	akota		Basin	n Dakota		ļ	320	Acres
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## ALLOCATION METHOD Hughes A #1E Well

The Hughes A #1E well has been producing for some time as a Dakota well. We propose to allocate based on the subtraction method using the attached future decline rate curve and tabular data for gas production for the Dakota and the remaining amount of gas produced to be attributed to the Mesaverde. Estimates for initial producing rate for the Mesaverde were determined from a recent completion we did in the Michener LS #3A (curve attached). The condensate production is recommended to be allocated as indicated on the C-107A by percentage allocation attributing 96% of liquid production to the Mesaverde and 4% of liquid production to the Dakota.



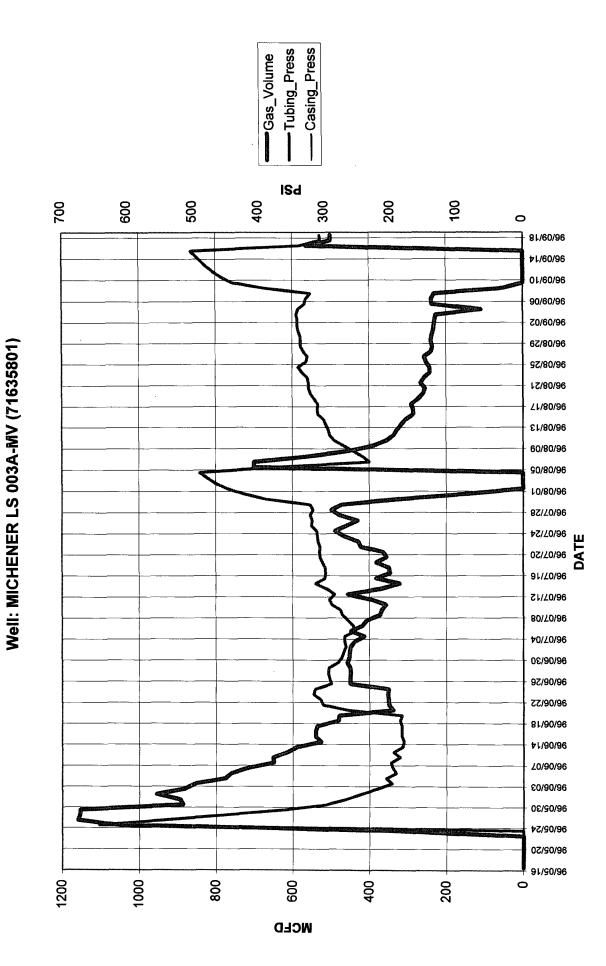
Hughes	A 1E - Commi	ngling Ap	plication					
Extrapol	ated Profile of Da	kota for Fut	ure Producti	on				
Most Stabl	e period - used for exti		/96 thru 6/1/96					
	Exponential D = 0.1380 per year							
	Estimated economic limit = 25 MCFD							
Month	Rate							
May-96	34.0							
Jun-96	33.3							
Jul-96	32.7							
Aug-96	32.0							
Sep-96	31.4							
Oct-96	30.8							
Nov-96	30.2							
Dec-96	29.6							
Jan-97	29.0							
Feb-97	28.4							
Mar-97	27.9							
Apr-97	27.3							
May-97	26.8							
Jun-97	26.3							
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Dec-97	23.3							
Jan-98	22.9							
Feb-98	22.4							
Mar-98	22.0							
Apr-98	21.5							
May-98	21.1							
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Jul-98	20.3							
Aug-98	19.9							
Sep-98	19.5							
Oct-98	19.1							
Nov-98	18.8							
Dec-98	18.4							
Jan-99	18.0							
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Apr-00	13.4		
May-00	13.1		
Jun-00	12.9		
Jul-00	12.6		
Aug-00	12.4		
Sep-00	12.1		
Oct-00	11.9		
Nov-00	11.7		
Dec-00	11.4		
Jan-01	11.2		
Feb-01	11.0		
Mar-01	10.8		
Apr-01	10.6		
May-01	10.3		
Jun-01	10.1		
Jul-01	9.9		
Aug-01	9.7		
Sep-01	9.6		
Oct-01	9.4		
Nov-01	9.2		
Dec-01	9.0		
Jan-02	8.8		
Feb-02	8.7		
Mar-02	8.5		
Apr-02	8.3		
May-02	8.2		
Jun-02	8.0		
Jul-02	7.8		
Aug-02	7.7		
Sep-02	7.5		
Oct-02	7.4		
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Dec-02	7.1		
Jan-03	7.0		
Feb-03	6.8	l l	
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Apr-03	6.6		
May-03	6.4		
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Aug-03	6.1		
Sep-03	5.9		
Oct-03	5.8		
	3.0	<u> </u>	

Nov. 02	5.7		
Nov-03	5.6		
Dec-03	5.5		
Jan-04	5.4		
Feb-04	5.3		
Mar-04			
Apr-04	5.2		
May-04	5.1		
Jun-04	5.0	<u> </u>	
Jul-04	4.9		
Aug-04	4.8		
Sep-04	4.7		
Oct-04	4.6		
Nov-04	4.5		
Dec-04	4.4		
Jan-05	4.3		
Feb-05	4.2		
Mar-05	4.2		
Apr-05	4.1		
May-05	4.0		
Jun-05	3.9		
Jul-05	3.8		
Aug-05	3.8		•
Sep-05	3.7		
Oct-05	3.6		
Nov-05	3.5		
Dec-05	3.5		
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Feb-06	3.3		
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May-06	3.1		
Jun-06	3.1		
Jul-06	3.0		
Aug-06	3.0		
Sep-06	2.9		
Oct-06	2.8		
Nov-06	2.8		
Dec-06	2.7		
Jan-07	2.7		
Feb-07	2.6		
Mar-07	2.6		
Apr-07	2.5		
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Jul-07	2.4		
Aug-07	2.3		
Sep-07	2.3		
Oct-07	2.2		
Nov-07	2.2		
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## Sheet1

Dec-07	22			,	
1 Dec-0/1	2.2	1	!	i	



Page 1

## OFFSET OPERATORS Hughes A #1E Well

Conoco, Inc. 10 Desta Drive West Midland, Texas 79705

Meridian Oil, Inc. P.O. Box 4289 Farmington, NM 87499