STATE OF NEW MEXICO

ORUG FREE

ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION AZTEC DISTRICT OFFICE

GARY E. JOHNSON GOVERNOR

JENNIFER A. SALISBURY CABINET SECRETARY

1000 RIO BRAZOS ROAD AZTEC, NEW MEXICO 87410 (505) 334-6178 FAX: (505) 334-6170

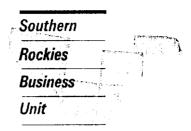
Date	Mr 9, 1995	· · · · · · · · · · · · · · · · · · ·
	,	•
	Conservation Division	
	Box 2088	
Santa	a Fe, NM 87504-2088	
RE:	Proposed MC	Proposed DHC
	Proposed NSL	Proposed SWD
	Proposed WFX	Proposed PMX
	Proposed NSP	Proposed DD
Gent	lemen:	
I hav	e examined the application received	Ion Mar. 6, 1995
for th	ne_Omors	Ion_ Mor. 6, 1995 Shughe 13#7A
	OPERATOR	LEASE & WELL NO.
F	- <u> </u>	and my recommendations are as follows:
(Jyron .	
Your	s truly,	
	3).	

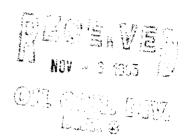


November 2, 1995

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-C
Downhole Commingling
Hughes B #7A Well
1450' FNL & 1750' FWL, Unit F Section 29-T29N-R8W
Blanco Mesaverde and Blanco Pictured Cliffs Pools
San Juan County, New Mexico





Amoco Production Company hereby requests administrative approval to downhole commingle production from the Blanco Mesaverde and Blanco Pictured Cliffs Pools in the Hughes B #7A well referenced above. The Hughes B #7A is currently a dual completion in the Mesaverde and Pictured Cliffs formations. We plan to complete the well with both the Mesaverde and Pictured Cliffs formations being downhole commingled in the wellbore. The Pictured Cliffs zone has been producing against line pressure while the Mesaverde has been on compression. This commingling will allow both the Mesaverde and the Pictured Cliffs formations to be produced through the compressor and should result in additional Pictured Cliffs production. The two zones are expected to produce at a total commingled rate of about 300 MCFD with a very small amount of condensate (less than 1 BCPD) from each formation. The ownership (WI, RI,ORI) of these pools is common in this wellbore. Downhole commingling will offer an economical method of production while protecting against reservoir damage, waste of reserves and violation of correlative rights. Offset operators to this well will receive a copy of this application by certified mail.

The allocation method that we plan to use for this commingled well is as follows. Since the Mesaverde formation has been producing on compression for some time and the Pictured Cliffs formation has not, we recommend that once total commingled production rates are established that the Pictured Cliffs be allocated the percent difference between the stabilized Mesaverde producing rate and total stabilized commingled production. The Mesaverde is currently producing 40 MCFD. The allocation percentages would then be set as a percentage of the total rate attributing 40 MCFD as the rate from the Mesaverde and the rest to the Pictured Cliffs. We would notify your Aztec District office when the testing was complete and report the allocation percentages for gas at that time for approval. The well has produced negligible amounts of condensate in the past and we recommend allocating 50% of condensate to each formation. The actual commercial value of the

commingled production will not be less than the sum of the values of the production from each of the common sources of supply.

Attached to aid in your review are plats showing the location of the well and offset wells in the same formation, a historical and recent production plot and a C-102 for each formation. This spacing unit is located on a federal lease (SF-078046) and we will send a copy of the application to the BLM as their notice. Should you have questions concerning this matter, please contact me at (303) 830-5344.

Sincerely,

Pamela W. Staley

Enclosures

cc:

Stan Kolodzie Lois Raeburn

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

Application for Exception to Rule 303: SEGREGATION OF PRODUCTION FROM POOLS

Requirements

(1) Name and address of the operator:

Amoco Production Company P.O. Box 300 Denver, CO 80201

(2) Lease name, well number, well location, name of the pools to be commingled:

Lease Name: Hughes B

Well Number: 7A

Well Location: 1450' FNL & 1750' FWL

Unit F Section 29-T29N-R8W San Juan County, New Mexico

Pools Commingled: Blanco Mesaverde Pool

Blanco Pictured Cliffs Pool

(3) A plat of the area showing the acreage dedicated to the well and the ownership of all offsetting leases.

Attached

(4) A current (within 30 days) 24-hour productivity test on Division Form C-116 showing the amount of oil, gas and water produced from each zone.

The Blanco Mesaverde produced an average stabilized rate of 40 MCFD and less than 1 BCPD. The Blanco Pictured Cliffs zone produced at an average rate of about 27 MCFD and less than 1 BCPD.

(5) A production decline curve for both zones showing that for a period of at least one year a steady rate of decline has been established for each zone which will permit a reasonable allocation of the commingled production to each zone for statistical purposes.

Blanco Pictured Cliffs Completion: Historical production curve attached.
Blanco Mesaverde Completion: Historical production curve attached.

(6) Estimated bottomhole pressure for each zone. A current (within 30 days) measured bottom hole pressure for each zone capable of flowing.

Bottomhole pressures were estimated from 72 hour shut-in pressures during a packer leakage test for the well. Estimated bottomhole pressure in the Pictured Cliffs formation is 450 PSI while the estimated bottomhole pressure in the Mesaverde is 798 PSI. See attached calculations.

(7) A description of the fluid characteristics of each zone showing that the fluids will not be incompatible in the wellbore

The two formations do not produce any fluids that, when combined, would prohibit commingling or promote the creation of emulsions or scale.

(8) A computation showing that the value of the commingled production will not be less than the sum of the values of the individual streams:

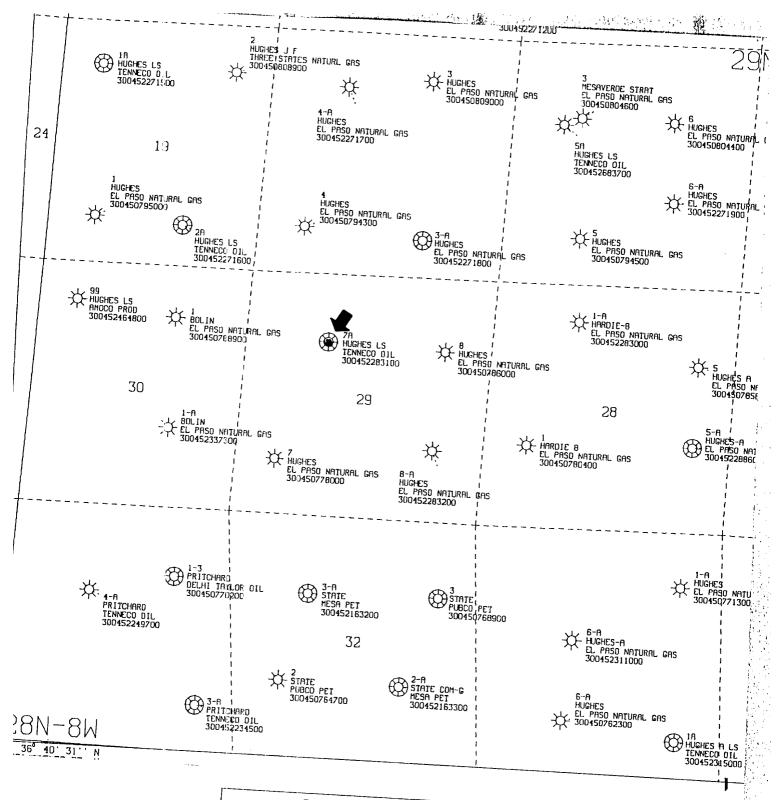
Since the BTU content of the produced gasses are very similar, we would expect the commingled production to have a similar value as the sum of the individual streams.

(9) A formula for the allocation of production to each of the commingled zones and a description of the factors or data used in determining such formula:

The allocation method that we plan to use for this commingled well is as follows. Since the Mesaverde formation has been producing on compression for some time and the Pictured Cliffs formation has not, we recommend that once total commingled production rates are established that the Pictured Cliffs be allocated the percent difference between the stabilized Mesaverde producing rate and total stabilized commingled production. The Mesaverde is currently producing 40 MCFD. The allocation percentages would then be set as a percentage of the total rate attributing 40 MCFD as the rate from the Mesaverde and the rest to the Pictured Cliffs. We would notify your Aztec District office when the testing was complete and report the allocation percentages for gas at that time for approval. The well has produced negligible amounts of condensate in the past and we recommend allocating 50% of condensate to each formation. The actual commercial value of the commingled production will not be less than the sum of the values of the production from each of the common sources of supply.

(10) A statement that all offset operators and, in the case of a well on federal land, the United States Bureau of Land Management, have been notified in writing of the proposed commingling.

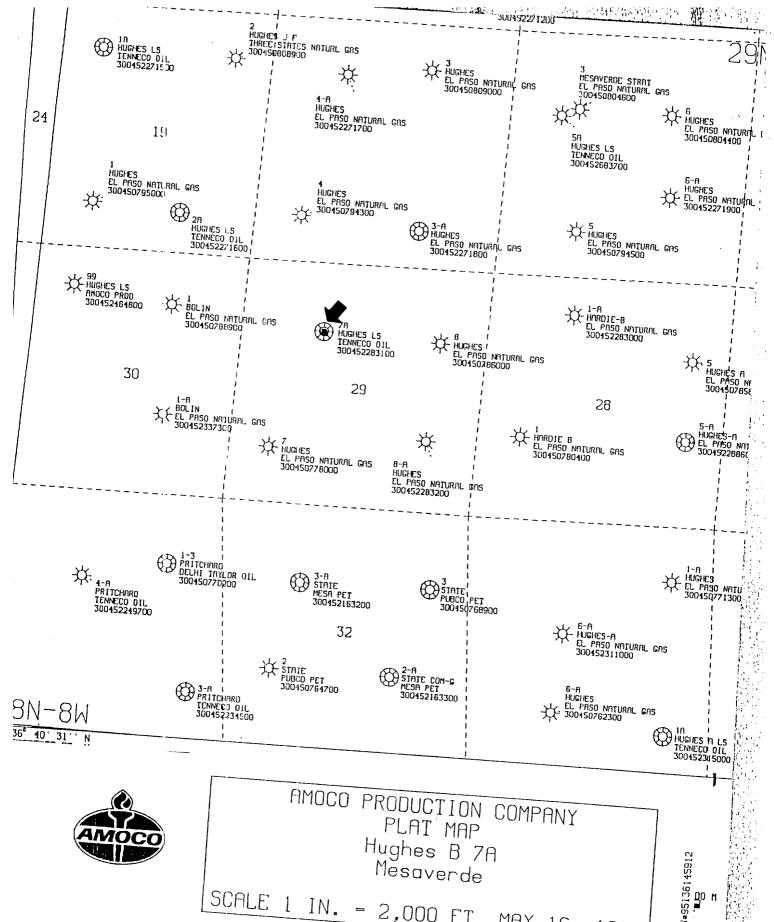
BLM will receive a copy of this application by certified mail. The offsetting operators listed on the attached sheet will receive a copy of this application by certified mail.





AMOCO PRODUCTION COMPANY
PLAT MAP
Hughes B 7A
Mesaverde

SCALE 1 IN. = 2,000 FT. MAY 16, 1995



= 2,000 FT. MAY 16,

HORIZONTAL DATUM NADSZ

PJH13433--RUN#95136145912

1 Paso Natural Gas Company 1 Letter Section Township Hange County 29 29N 8W San Juan 450 teet from the North Hine and 1750 teet from the West Hine 450 teet from the North Hine and 1750 teet from the West 445 Mesa Verdo Blanco Mesa Verdo 320 00	·		All dista	nces must be f	rom the outer b	oundaries of	the Section			
Post					Hughe	:5	(SF-0	078046)	l l	
well festives testions of wells 159	t Letter	ı	1				l i			
150 test from the North two and 1750 test from the Worth Trouble of Trouble o	and Contony Les	<u> </u>	SAN	***·	8W		San	Juan		
Pest	_		37							
His the acreage bediented to the subject well by colored pencil or hachere 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-profing, etc? Yes No If answer is "yes," type of consolidation H answer is "an," list the owners and tract descriptions which have actually been consolidated. (ties reverse side of this form if necessary.) No allowable will be assigned to the well until all interests have been consolidated (by consumnitization, unitization, force-profing, or otherwise) or until a non-standard unit, clinimating such interests, has been approach by the Consussion. CERTIFICATION I hereby certify that he information contained wherein is true and consists to the best of my hypothetige and belief. Figure 1750 Sec 29 I hereby certify that he well location shown on this plat was platted from tied notes of actual surveys and by rese under my supervision, and that he same is true and consists and the the same is true and consists and the the same is true and consists and the true and consists and the the same is true and consists and the this same is true and consistent and the same is true and consistent and true and the same is true and consistent and true. November 16: 10.97 Registered the same is the constant and the same is true and consistent and true. Price M. Royalty 1.				line und		fee	t from the	West		
1. Outline the acrose cedicated to the subject well by colored pencil or hachure marks on the plat below. 2. If more than one leave is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty). 3. If more than one leave is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty). 3. If more than one leave is different ownership is dedicated to the well, have the interests of all owners been consolidated by communitization, unitization, force-proling, etc? 1. If more than one leave is different ownership is dedicated to the well, have the interests of all owners been consolidated by communitization, unitization, forced-pooling, or office as and tract descriptions which have actually been consolidated. (Use reverse side of his form if necessary). 1. No allowable will be assigned to the well until all interests have been consolidated (by communitization, unitization, forced-pooling, or officewise) or until a non-standard unit, eliminating such interests, has been approved by the Gennaission. 2. CERTIFICATION 2. If hereby certify that the information contained herein is too and complete to the best of my smalledge and belief. 3. Name 3. Provided 3. Provided 4. Description the well foculent above and this plat was platted from the same is true one context that th	•					10000 M		1 -	1	
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 avsigned to the well until all interests have been consolidated (by communitization, unitization, forced-pooling, or otherwise) or until a non-standard unit, climinating such interests, has been approved by the Commission. CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my workedge and belief.					•					Acres
B. 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 "yos," 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 Commaission. CERTIFICATION I hereby certify that the information contained hereby is true and complete to the best of my knowledge and ballet. Soc 29 I hereby certify that the well location shown on this plot was plutted from tidd notes of actual surveys made by me a under my survey made by me as under my survey and by the contains the containing the first of the same is true and contect to the best of my knowledge and belief. Rovember 1s, 1077 Heightweel take changing must be the containing the con	1. Uulline th	e acreage dec	licated to the	subject we	ell by colore	d pencil o	or hachure	marks on th	c plat below.	
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 Commaission. CERTIFICATION I hereby certify that the information contained herein is two and complete to the best of my knowledge and ballet. Prof. Paso Natural Gas Commany	2. If more the interest a	nan one lease nd royalty).	is dedicated	to the wel	l, outline ca	ch and ide	entify the	ownership th	icreof (both as to	working
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, untilization, forced-pooling, or otherwise) or until a non-standard unit, eliminating such interests, has been approved by the Commission. CERTIFICATION I hereby certify that the information contained herein is two and complete to the best of my knowledge and belief. Jeans Drilling Clerk Frestlan E. Paso Natural Gas Cc Company 12-14-77 Date I hereby certify that the well location shown on this plot was plotted from lield notes of certal surveys made by rece under my supervision, and that the same is true and correct to the best of my knowledge and belief. November 14, 927 Reptaction 15, 1977 Reptaction	3. If more that dated by c	an one lease c communitizatio	of different ov n, unitization.	enership is o , force-pooli	ledicated to ng. etc?	the well,	have the i	nterests of	all owners been	consoli-
In some in necessary.) No allowable will be assigned to the well until all interests have been consolidated (by communitization, untilization, forced-pooling, or otherwise) or until a non-standard unit, eliminating such interests, has been approved by the Cananission. CERTIFICATION I hereby certify that the information contained herein is two and complete to the best of my knowledge and belief. Dilling Clork Feetitien B. Paso Natural Gas, Cc Company 12-14-77 Date Soc 29 I hereby certify that the information contained herein is two and complete to the best of my knowledge and belief. B. Paso Natural Gas, Cc Company 12-14-77 Date Some on this plat was platted from field notes of actual surveys made by rea or under my supervision, and that the same is two and correct to the best of my knowledge and belief. November 14: 1927 Registred I take statement and the field of the same is two and correct to the best of my knowledge and belief. Lift Company Lift	Yes	☐ No	If answer is "	yes," type o	f consolidati	ion				
SF-078046 Sp. 29 I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief. Name Drilling Clerk Petition I hereby certify that the well location shown on this plat was plotted from field moles of actual surveys made by me are under my supervision, and that the same is true and complete for my knowledge and belief. Thereby certify that the well location shown on this plat was plotted from field moles of actual surveys made by me are under my supervision, and that the same is true and correct to the best of my knowledge and belief. Thereby certify that the well location shown on this plat was plotted from field moles of actual surveys made by me are under my supervision, and that the same is true and correct to the best of my knowledge and belief. The Surveys of the containing of the surveys of the containing of the surveys of the	If answer this form i	is "no;" list t f necessary.)_	he owners an	d tract desc	riptions whir	ch have ac	ctually be	en consolida	ated. (Use revers	e side of
I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief. Mama Drilling Clerk	forced-poo	ole will be ass ling, or otherw	igned to the wise) or until a	ell until all non-standar	interests ha l unit, elimin	we been conting suc	consolidat h interest	ed (by com s, has been	munitization, uni approved by the	tization, Commis-
I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief. Mama Drilling Clerk		XXXXXXXX		3						
Interest of my knowledge and belief. Name Drilling Clerk Pestitan El Paso Natural Gas Co Company 12-14-77 Date Sec 29 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 seal is true and correct to the best of my knowledge and belief. November 14: 1927 Heristered I real surveys November 14: 1927 Heristered I real surveys Tree Is Kerr, fri. Cuttlente Ro.			Ď	$\langle \rangle$	i		1		CERTIFICATION	
Interest of my knowledge and belief. Name Drilling Clerk Pestitan El Paso Natural Gas Co Company 12-14-77 Date Sec 29 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 seal is true and correct to the best of my knowledge and belief. November 14: 1927 Heristered I real surveys November 14: 1927 Heristered I real surveys Tree Is Kerr, fri. Cuttlente Ro.		i 1		K	!					
best of my knowledge and belief. Page Page Page Page Page Page		il		K	•			i i		
T750 Total Sec SF-078046 SF-078046 Sec SP-078046 I hereby certify that the well location shown on this plat was plotted from field motes 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 Surveyort November 14: 1077 Registered transcatoral trainer and/or Lead European and/		i		∢]	l .		.	li .		
T750 Total Sec SF-078046 SF-078046 Sec SP-078046 I hereby certify that the well location shown on this plat was plotted from field motes 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 Surveyort November 14: 1077 Registered transcatoral trainer and/or Lead European and/		, T	Į.	K	(1	best of my	knowledge and belie	21.
Drilling Clerk Position El Paso Natural Gas Co Company 12-14-77 Date See 29 I hereby certify that the well location shown on this plat was platted 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. Prod. Registered Inclusional Lepin, or and/or Lest Surveys. Prod. R. Kerr, Fri. Chillicole No.		(1	Ĭ.	K	1			18.1	J. Duci	C)
Sec SF-078046 Sec 29 I hereby certify that the well location shown on this plat was platted 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. November 11, 1927 Resistend Indicational Lightner and or Lard Surveys. Pred B. Kerr, 173. Chilledge No.		i l		4	!		1	Name	+	
SF-078046 Sec 29 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. 27 Date Surveyor Roystered robustoned temper 1977 Fred N. Kerr r. 1977 Fred N. Kerr 1971	1750		, — — - ,	y				Drilli	ng Clerk	
SF-078046 Sec 29 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 Surveyor Annual Technology (Annual Technology) Royembor 1s, 1077 Restanted trainstanting themselve and/or Land Surveyor (Annual Technology) Fred K. Kerr, Iri. Cutilitate No.		1	ť	K	Į.	ė	1			
SF-078046 Sec 29 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 Surveyord Royamber 14: 1977 Registered I releasing the fine of antion of the control of		1		∛	!		.	El Pas	<u>o Natural (</u>	Gas Co
Date Date 1 hereby certify that the well location shown on this plot 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 Surveyor Royamber 14: 1077 Resistenced I religioushmod, Latinuser and or Land Curveyor Tend R. Kerr 17:1 Cuttificate No.	a.	1 12 022016	R	·	. !		1	Company	•	
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 Surveyor: November 11: 1027 Registered I reinstand, Lightner and or Land Surveyor. Fred N. Kerr (r.) Cutilicate No.	۵.	1	ŧ.	K	i		1		12-14-77	
Date Surveyed November 11: 1077 Heststend I religious design. Paranisas P		i	•	∢	i			Date		_
Date Surveyed November 11: 1077 Heststend I religious design. Paranisas P		. '	Sec	S)	i		1	ļ		·
Date Surveyed November 14: 1027 Resistand Fred Surveyor The Surveyor			<u></u>	X - 20						
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 Surveyork November 11: 1077 Resistened I releasional Lightner of and/or Lead Surveyor 1: 1 Tend Is Kerre Iris Cultificate No.		; !	1	1	l		ł			
Date Surveyor November 11: 1077 Resistend I retreated and surveyor and/or Land Surveyor Fred S. Kerr 17:1 C. Hilledte No.		i	K	K	ł					
Date Surveyor November 16: 1977 Heststead I releasional Latineer and/or Land Surveyor Fred B. Kerr, Iril C. William No.		1	K	K	}				•	
Date Surveyor November 11: 1077 Resistened I releasional Lagineer of and/or Laid Surveyor Teach Capture of the best of my knowledge and belief.		i	į.	₫	1					· ·
Date Surveyor November 14: 1077 Registered Fred Surveyor and/or Land Surveyor Fred S. Kerr Ir. Confliction No.		ĺ	Į.	Ŕ	1					
Date Surveyor November 14: 1077 Hegistered Free extensional Lightner and/or Land Surveyor Fred N. Kerr Fr. Confliction No.		i	ł.	K	1					est of my
Date Surveyor November 14: 1077 Hegistered Free estonal Lightner and/or Land Surveyor Fred K. Kerr Fr. Confliction No.	· · · · · · · · · · · · · · · · · · ·	, L		\	!			knowledge	ond belief.	
November 14: 1027 Hegistered Fred Surveyor Teach Surveyor Fred K. Kerr Fr. Confliction No.	*7 C			}					- This	الإر
Hegistered (refessional Lightner and/or Lord Surveyor) 1 (2) Teach (Grant Surveyor) 1 (2) Fred B. Korr (r.) Cuttledie No.		. I	·	₫	I		•	Date Survey	M S 17. ()	· (- \
Fred B. Kerr Ir		· I	Į.	Ŕ	1		İ	J		
Fred & Kerr Irst Cuttleon to.		1	ŀ	()	!					4
Cuttledictio.		i	\	Ŋ				winty of £.cc) 1	Surveyor Children	(, : : : :
Cuttledictio.		3 1		K	!			Iteres (Sipilation Day	
	<i>\$25</i> 2555	watama		1					Kerr Iru	,
	, ,	' '		i I	WI DOAS				". : V : - X	•

NEV :XICO OIL CONSERVATION COMMISSION WELL LOCATION AND ACREAGE DEDICATION PLAT

OCT 9 I 1981 Superseder C-128 Effective 1---55

	All	stances must be fro	m the outer boundari	e of the Section.		
erator	0:3 0	1	.0000	hoc I C		Well No.
	o Oil Company		Range / Ruy	hes LS County		.1
·F	29	29N	8W	Sar	Juan	
tual Footage Locatio						
	et from the North	line and	1750	feet from the	West	line icated Acreage:
ound Level Elev:	Producting Formation	1	∞ı Blanco PC		Dea	160 Acres
6445	Pictured Clace declinated to			-:1 1 l		
 If more than interest and i If more than 	one lease is dedicated to the dedicated to the desired to the desi	ted to the well,	outline each an	d identify the o	ownership there	of (both as to worki
Yes If answer is this form if n	"no," list the owners	is "yes;" type of and tract descr	consolidation iptions which ha interests have b	ve actually be	ted (by commun	itization, unitizatio
sion.	g, or otherwise) or uni	n a non-standard	unit, eriminatia	R and in interest	1	ERTIFICATION
	1450		DECE		toined herein	fy that the information c is true and complete to owledge and belief. Management
 1750'	Tenneco 50% Conoco 50%	- !	SEP 3 P 1985 CON DIV	- D-	Company	qulatory Analys
					shown on this notes of acts under my sup is true and knowledge on Date Surveyed	fessional Engineer
			 		Certificate No.	

1800

2000

1320 1650 1680 2310 2640

660

1000

Amoco Production Company

Offset Operator Plat Hughes B7A T29N-R8W Sec. 29

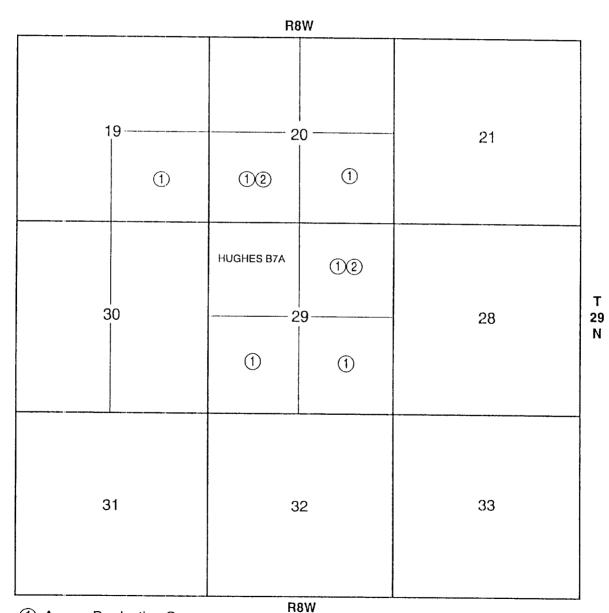
Blanco Mesaverde Formation

R8W								
19 ①	① 20 ①	21						
30 ②	1 29 1	28 Z9 N						
31 ①	32	33						
	R8W							

Amoco Production Company
 Meridian Oil Production Inc.
 Conoco Inc.

Amoco Production Company

Offset Operator Plat Hughes B7A T29N-R8W Sec. 29 Pictured Cliffs Formation

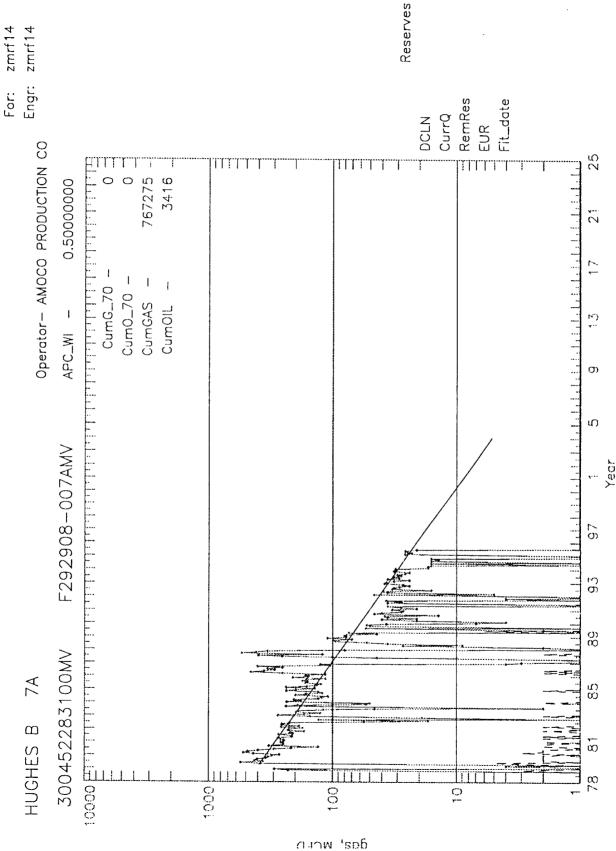


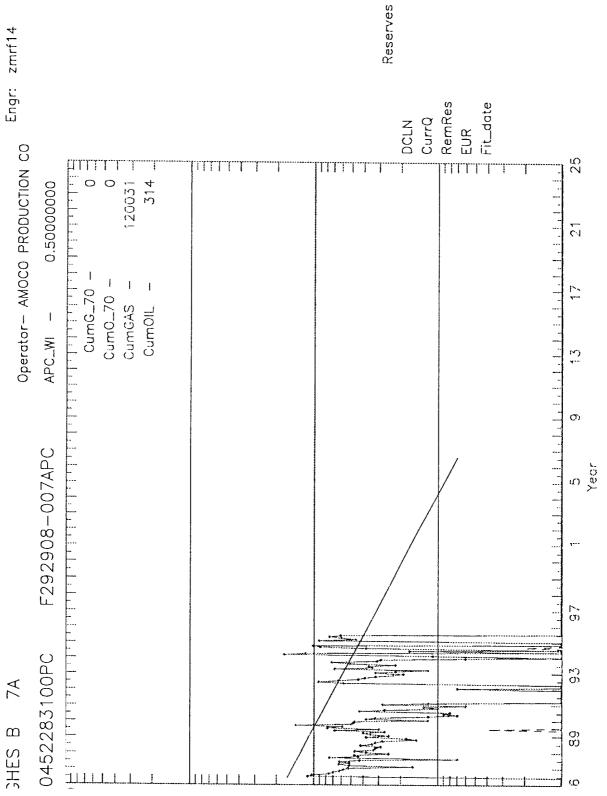
Amoco Production Company
 Meridian Oil Production Inc.

Conoco Inc.

_LIST OF ADDRESSES FOR OFFSET OPERATORS Hughes B # 7A

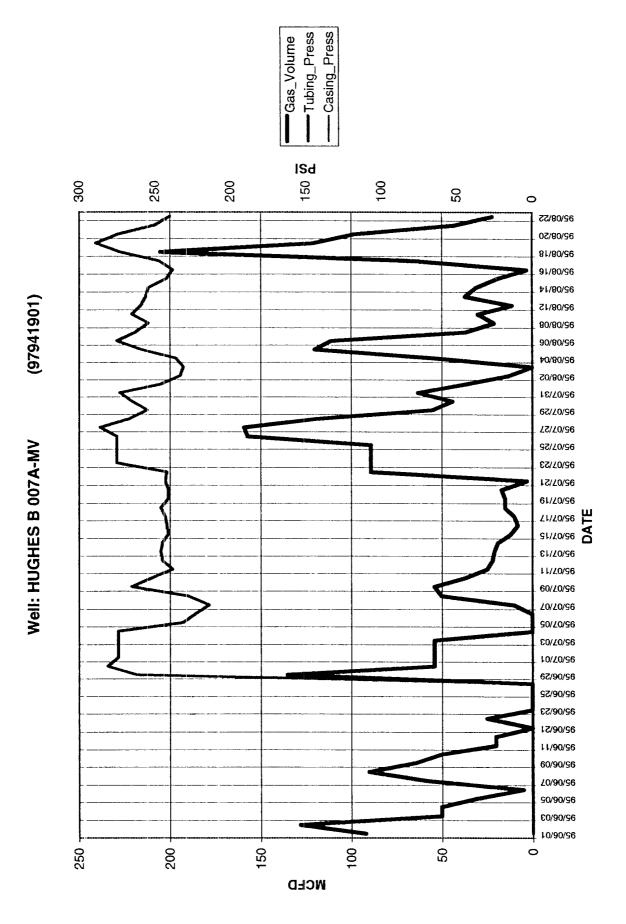
- 1 Meridian Oil, Inc. P.O. Box 4289 Farmington, NM 87499
- Conoco, Inc.Desta Drive WestMidland, Texas 79705



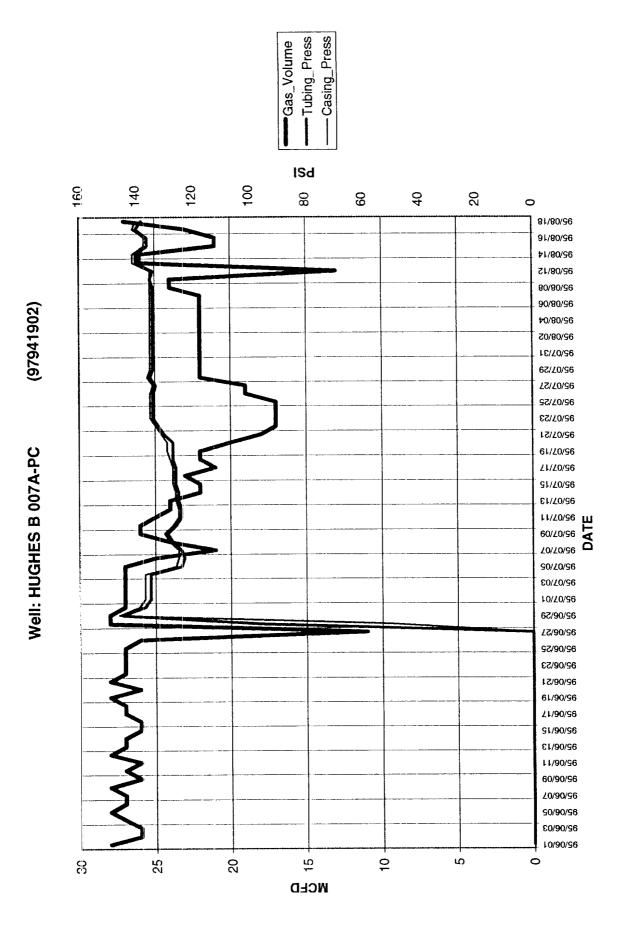


zmrf14

For:



Page 1



Page 1