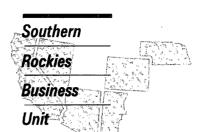


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MAR 6 1996

OIL CONSERVATION DIV. SANTA FE



March 1, 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-C
Downhole Commingling
Jicarilla 155 #30 Well
820' FWL & 1120' FNL, Unit D Section 30-T26N-R5W
Blanco Mesaverde (Pool IDN 72319) and Otero Chacra (Pool IDN 82329) Pools
Rio Arriba County, New Mexico

Amoco Production Company hereby requests administrative approval to downhole commingle production from the Blanco Mesaverde and Otero Chacra Pools in the Jicarilla 155 #30 well referenced above. The Jicarilla 155 #30 well was originally a dual completion in the Mesaverde and Chacra formations. This well has a marginal Chacra formation which is being produced dually with a marginal Mesaverde. If this well is left as a dual completion, the marginal zones will not be economic much longer. We planto complete the well with both the Mesaverde and Chacra formations being downhole commingled in the wellbore. The two zones are expected to produce at a total commingled rate of about 242 MCFD with 3.15 BCPD due to the increased efficiencies of lifting liquids. Current production is 75 MCFD and 2.65 BCPD from the Mesaverde and 17 MCFD and no condensate from the Chacra formation. The ownership (WI, RI,ORI) of these pools is identical 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. Amoco is the only offset operator in both formations.

The allocation method that we plan to use for this commingled well is as follows. Since these formations have been producing for some time, we have a good historical representation of the production by formation. Based on historical production we recommend that the allocation for gas production be 82% from the Mesaverde formation and 18% from the Chacra formation. The Chacra has historically produced no liquids in this well. Based on that fact, we propose to allocate 100% of the liquid production to the Mesaverde formation and none to the Chacra. 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

formations, a historical production plot, recent production information and a C-102 for each formation. This spacing unit is on a federal lease (Jicarilla Contract 155) and a copy of the application will be sent to the BLM as required.

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

Sincerely,

Pamela W. Staley

Enclosures

cc: Steve Smethie

Patty Haefele

Wellfile

Proration Files

Frank Chavez, Supervisor NMOCD District III 1000 Rio Brazos Road Aztec, NM 87410 Robert Kent Bureau of Land Management 435 Montano NE Albuquerque, NM 87107

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 800 Denver, CO 80201

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

Lease Name:

Jicarilla 155

Well Number:

30

Well Location:

820' FWL & 1120' FNL Unit D Section 30-T26N-R5W

Rio Arriba County, New Mexico

Pools Commingled:

Otero Chacra

Blanco Mesaverde

(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 Mesaverde produced an average stabilized rate of 75 MCFD and 2.65 BCPD. The Chacra zone produced at an average rate of about 17 MCFD and no condensate.

(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.

Otero Chacra 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 OCD Packer Leakage Tests. Shut-in bottomhole pressure in the Chacra formation is calculated to be 616 PSIG while estimated bottomhole pressure in the Mesaverde formation is 880 PSIG. Therefore these pressures meet the pressure differential rule under article 303-C (b)(vi). See attached calculation and packer leakage test results.

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

The fluids in the Mesaverde have no abnormal components that would prohibit commingling, or promote the creation of emulsions or scale when commingled with the Chacra formation.

(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:

The BTU content of the produced streams are very similar and as such, we would expect the commingled production to have the same 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 these formations have been producing for some time, we have a good historical representation of the production by formation. Based on historical production we recommend that the allocation for gas production be 82% from the Mesaverde formation and 18% from the Chacra formation. The Chacra has historically produced no liquids in this well. Based on that fact, we propose to allocate 100% of the liquid production to the Mesaverde formation and none to the Chacra. 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. Amoco is the only offset operator in both formations.

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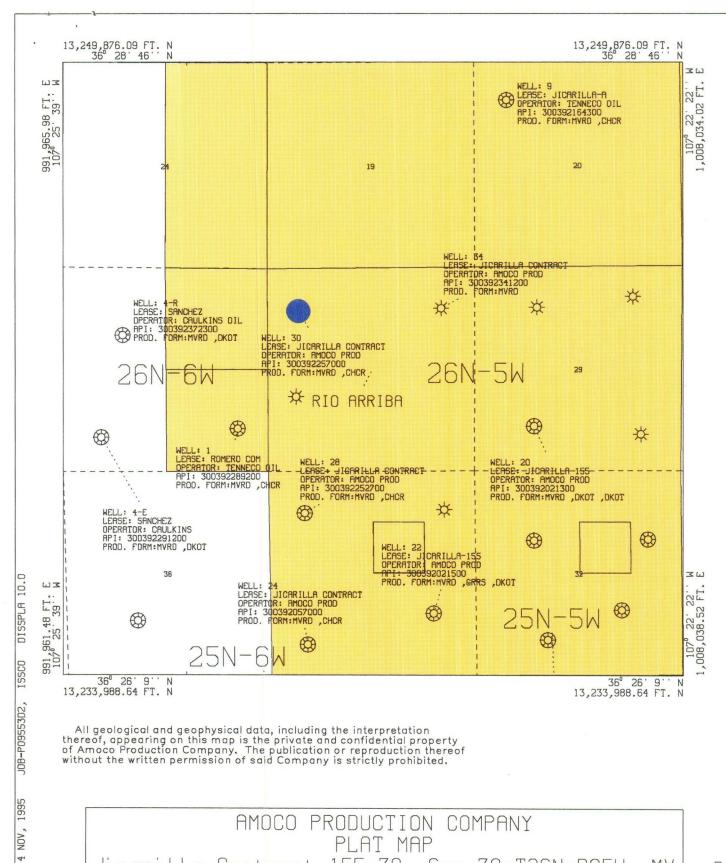
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PLOT

AMOCO PRODUCTION COMPANY PLAT MAP Jicarilla Contract 155-30 Sec 30-T26N-R05W CK Rio Arriba New Mexico 1 IN. = 2,500 FT. NOV 4,



PLAT MAP

Jicarilla Contract 155-30 Sec 30-T26N-R05W MV

Rio Arriba New Mexico

SCALE 1 IN. = 2,500 FT. NOV 4, 1995

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PLOT

MICONSERVATION DIVISION

P. O. UOX 2088

SANTA FE, NEW MEXICO 87501

Form C-107 key1sed 10-1-1

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ANOCO PRODUCTION COMPANY Ostico Section	Operator		Lease Well No.							
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1. Outline the acreage dedicated to the subject well by colored pencil or bachure marks on the plat below. 2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty). 3. If more than one lease of different ownership is dedicated to the well, have the interests of all owners been consolidated by communitization, unitization, force-pooling, etc? Yes No If answer is "yes," type of consolidation If answer is "ao," list the owners and tract descriptions which have actually been consolidated. (Use reverse side of this form if necessary). No allowable will be assigned to the well until all interests have been consolidated (by communitization, unitization, forced-pooling, or otherwise) or until a non-standard unit, eliminating such interests, has been approved by the Commission. CERTIFICATION I hereby certify that the information contained herein is true ond complete to the best of my hownedges and belief. Company ANOCO PRODUCTION COMPANY Dole SEPTEMBER 11, 1930 I hereby certify that the until boosten shown on this plat was plotted from field notes a fectual surveys made by me or worker my supervision, and that the same is true and cornect to the best of my hownedge and belief. Date Surveyed July Another Production of the best of my hownedges and belief. Date Surveyed July Another Production of the best of my hownedges and belief. Date Surveyed July Another Production of the field notes a fectual surveys made by me or worker my supervision, and that the same is true and cornect to the best of my hownedges and belief. Date Surveyed July Another Production of the field notes and the same is true and cornect to the best of my hownedges and belief. Production of the production of the field notes and the fi	1120	feet from the NO	rth line and	820	feet C	t from the	West	line		
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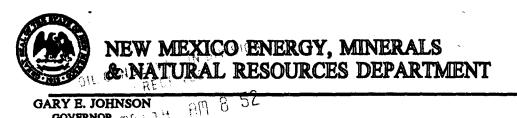
STATE OF NEW MEXICO ENERGY and MINERALS DEPARTMENT

Location of Well: D302605 Page 1

OTI, CONSERVATION DIVISION

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C	9/02/93	Day	2	200T. 275 C	420 T.			Bot	h Zones SI		
C	9/03/93	Day	3	245Ti	440 T.			Bot	h Zones SI		
C	9/04/93	Day	4	295 (285 C 295 C	450		TURA O	ow lower Zone		
(9/05/93	Day	5	225 T	440 T. 270 C.						
	9/05/93	Day	6	170 T-	365 T. 255 C						
Produ	ction rate	during te	st			1		<u> </u>			
Oil: Gas:		BOPD	based	on D:Tested t	BBLs in heu (Orifi	ce c	нгв r Mete	Gra er):METE	av GOR ER		
oub.				EST SHUT-I							
UPR	Hour, Dat	e SI Len	gth o	f Time SI	SI Press	s. PS	SIG	Eabili E	zed (yes/no)		
LWR									121/1883. 1014. DIV.		
	I	I			i		1	- 4 20 AP			

(Continue on reverse side)



GARY E. JOHNSON

GOVERNOR MAR 3 "

AZTEC DISTRICT OFFICE 1000 RIO BRAZOS ROAD AZTEC, NEW MEXICO 67410 (505) 334-6178 Fax (505)334-6170

> JENNIFER A. SALISBURY CABINET SECRETARY

ADMINISTRATIVE ORDER RECOMMENDATION

Date:		•
		·
New N	Mexico Oil Conservation Div	vision
	ox 2088	• • • • • • • • • • • • • • • • • • •
	Fe NM 87504-2088	
201100		
RE:	Proposed MC	Proposed DHC
	Proposed NSL	
	Proposed WFX	
	Proposed NSP	
	-	_
Gentle	emen:	
		$\frac{2}{\sqrt{x}}$
I have	examined the application re	eceived on
for the	: amoer _	
	OPERATOR	() LEASE & WELL NUMBER
0)	30-26N-5W	and my recommendations are as follows:
	UL-S-T-R	•
		
		
37		
Yours	truly,	·
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($\langle \cdot \rangle$	
	/ / ` 	
	()	·