#### STATE OF NEW MEXICO ENERGY AND MINERALS DEPARTMENT

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### OIL CONSERVATION DIVISION P. O. BOX 2088

SANTA FE. NEW MEXICO 87501

Form C-104 Revised 10-01-78 Format 06-01-83

Page 1

REQUEST FOR ALLOWABLE

I.	SPORT OIL AND NATURALIZAD.
Operator	CII. CON. DIV.)
Amoco Production Co.	Oth pist. 3
Address	
2325 E. 30 St., Farmington, NM 87401 Reason(s) for filing (Check proper box)	Other (Please explain)
New Well Change in Transporter of:	
	Change in Pool Name per Order R-8273
	Condensate From: Otelo Galley
	- 1710m - 110 Castagy
I change of ownership give name	,
and address or previous owner	1
I. DESCRIPTION OF WELL AND LEASE	·
Lease Name Well No. Pool Name, Including	
Jicarilla Contract 148   18   W. Lindrith G	Sallup-Dakota Stole, Federal or Fee Federal Contract 146
Location	
Unit Letter F : 1850 Feet From The North L	ine and 1590 Feet From The West
Line of Section 23 Township 25N Range 5	5W , NMPM, Rio Arriba County
II. DESIGNATION OF TRANSPORTER OF OIL AND NATURA	ALGAS Address (Give address to which approved copy of this form is to be sent)
Permian Corporation  Name of Authorized Transporter of Casinghead Cas  or Dry Gas	P. O. Box 1702, Farmington, NM 87499  Address (Give address to which approved copy of this form is so be sent)
El Paso Natural Gas Company	P. O. Box 990, Farmington, NM 87499
Unit Sec. Twp. 'Roe.	is gas actually connected? When
If well produces oil or liquids, give location of tanks.  F 23 25N 5W	
this production is commingled with that from any other lesse or pool	give commingling order number:
	, give committee and the commi
NOTE: Complete Parts IV and V on reverse side if necessary.	
TO CONTRACT OF CONDITIONS	OIL CONSERVATION DIVISION
7. CERTIFICATE OF COMPLIANCE	- A
hereby certify that the rules and regulations of the Oil Conservation Division have	
een complied with and that the information given is true and complete to the best of by knowledge and belief.	Trank June /
nowledge and benefit.	BY
$O \setminus C \mid$	TITLE SUPERVISOR DISTRICT # 3
$\langle \langle \langle \langle \langle \rangle \rangle \rangle \rangle$	This form is to be filed in compliance with RULE 1104.
BO D New	If this is a request for allowable for a newly drilled or deeponed
(Signature)	well, this form must be accompanied by a tabulation of the deviation.
Adm. Supervisor	tests taken on the well in accordance with RULE 111.  All sections of this form must be filled out completely for allow-
12-1-86 (Title)	able on new and recompleted wells.
	Fill out only Sections I. II. III, and VI for changes of owner,
(Date)	well name or number, or transporter, or other such change of condition.
	Separate Forms C-104 must be filed for each pool in multiply completed wells.

IV. COMPLETION DATA	•								
Designate Type of Completi	on — (X)	OII Well	Gas Well	New Well	MotFonet	Deepen	Plug Back	Same Resty	Dill. Resty
Date Spudded	Date Compl	. Ready to P	rod.	Total Depti	<u></u>	<del></del>	P.B.T.D.	<u> </u>	<del></del>
Lievations (DF, RKB, RT, GR, etc.,	Name of Pro	oducing Form	ation	Top Oll/Go	s Pay		Tubing Dep	th	
Perforations	<u> </u>			<del></del>			Depth Castr	ig Shoe	<del> </del>
		TUBING, C	CASING, AN	CEMENTI	NG RECOR	<u> </u>			
HOLE SIZE	CASIN	IG & TUBIA	46 SIZE		DEPTH SE	Т	SACKS CEMENT		
					<del></del>	<del> </del>			<del></del>
					· · · · · · · · · · · · · · · · · · ·				
TEST DATA AND REQUEST OIL WELL	FOR ALLO	WABLE (T	est must be a ble for this de	fter recovery ( pth or be for )	of sosal volum Fall 24 hows/	ne of load oil	and must be ea	qual to or exc	eed top allow.
Date First New Oil Run To Tanks	Date of Test	Į.		Producing Method (Flow, pump, gas lift, etc.)					
Length of Test	Tubing Pres	sure		Casing Pres	eme.		Choke Size		
vertual Prod. During Test	Oil-Bbls.	<del></del>		Water - Bbls.	<del></del>		Gas - MCF	<del> </del>	<del></del>
ÀS WELL				!			<u> </u>		
Actual Prod. Test-MCF/D	Length of Te	et		Bbis. Conde	negte///MCF	***	Gravity of C	ondeneate	145.
leesing Method (pitot hack pr.)	Tubing Press	we Shut-S	<u>s)</u> .	Casing Pres	we (Shat-	La)	Choke Size	un T	•

**DECEMBER 2, 1994** 

NEW MEXICO OIL CONSERVATION DIVISION ATTENTION: ERNIE BUSH 1000 RIO BRAZOS ROAD **AZTEC, NEW MEXICO 87410** 



IICARILLA CONTRACT 148 #18 RECOMPLETION (F- 23-25N-5W

11. 124.01/016 THIS WELL HAS EXISTING GALLUP AND CHACRA COMPLETIONS AND THE RECOMPLETION TO THE MESAVERDE WAS APPROVED NOVEMBER 2, 1994. IN ORDER TO OBTAIN STABILIZED RATES FOR A COMMINGLING APPLICATION, AMOCO REQUESTED APPROVAL OF A TESTING PHASE OF UP TO NINETY DAYS IN THE NOTICE OF INTENT. OUR RECOMPLETION TO THE MESAVERDE WAS UNSUCESSFUL AND WILL BE PLUGGED. A NOTICE OF INTENT DETAILING OUR PROCEDURE WAS SUBMITTED TO THE BLM ON NOVEMBER 30, 1994 ALTHOUGH THE GALLUP HAS BEEN SHUT IN AND ONLY THE CHARCA HAS BEEN PRODUCING, AMOCO PROPOSES TO TEST AND SELL THE GALLUP AND CHACRA DURING A NINETY DAY TEST IN ORDER TO OBTAIN STABILIZED RATES FOR A COMMINGLING APPLICATION.

THE FOLLOWING ARE THE TEMPORARY ALLOCATION PERCENTAGES;

	OIL	GAS	WATER	
CHACRA	0.00	.50	0.00	
GALLUP	1.00	.50	1.00	

IF THE DATA ACCUMULATED DURING THE TESTING PHASE INDICATES THAT THE PERCENTAGES SHOULD BE REVISED, THE NECESSARY ADJUSTMENTS WILL BE DONE.

THE REQUESTS FOR ALLOWABLE AND AUTHORIZATIONS TO TRANSPORT, FORM C-104, FOR THE CHACRA AND THE GALLUP ARE ATTACHED.

IF YOU HAVE ANY QUESTIONS, PLEASE CONTACT ME AT (303) 830-4912.

A. WAYNE BRANAM **BUSINESS ANALYST** 

**ATTACHMENT** 

DOCUMENT 14818OCD

Form 3160-5 (June 1990)

# UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

FORM APPROVED
Budget Bureau No. 1004-0135
Expires: March 31, 1993

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.  Use "APPLICATION FOR PERMIT - " for such proposals  Type of Well Oil Well Other  Name of Operator AMOCO PRODUCTION COMPANY  Address and Telephone No.  (303) 830-4912	5. Lease Designation and Serial No.  JICARILLA CONTRACT 148  8. if Indien, Allottee or Tribe Name  JICARILLA APACHE  7. If Unit or CA, Agreement Designation  8. Well Name and No.  JICARILLA CONT 148 #18  9. API Well No.  3003922000  10. Field and Pool, or Exploratory Area
P.O. Box 800, Denver, Colorado 80201	BLANCO MESAVERDE
. Location of Well (Footage, Sec., T., R., M., or Survey Description)  1850FNL 1590 FWL Sec. 23 T 25N R 5W UNIT F	11. County or Parish, State  RIO ARRIBA NM
2. CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE	
TYPE OF SUBMISSION TYPE OF AC	TION
Notice of Intent  Notice of Intent  Subsequent Report  Final Abandonment Notice  Abandonment Notice  Casing Repair Altering Casing Other PXA  Intering Casing Other PXA  3. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date	Change of Plans  New Construction  Non-Routine Frecturing  Water Shut-Off  Conversion to Injection  Dispose Water  late: Report results of multiple completion on Well Completion or secompletion Report and Log form.
subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*  THE RECOMPLETE TO THE MESAVERDE WAS UNSUCESSFUL AND WAS PXA'ED I	PER THE ATTACHED.
	PECELVED  M. 18 1901  OIL CAR LANG

### JICARILLA CONTRACT 148 #18 RECOMPLETION ATTEMPT

111494 MIRU RU BLOWLINES, CHACRA PRESS 330#, GALLUP PRESS 5# AFTER SI 72HRS, SWAB, TAGGED FLUID AT 4000', COULD NOT SWAB PAST 4150', NDWH, NUBOP, TOH W/PKR, SET RBP AT 4900', SET PKR BELOW CHACRA, PRESS TESTED CSG TO 3000#, CSG HELP PRESS FOR 15 MIN W/O BLEED OFF, RAN CMT BOND, GAMMA RAY AND COLLAR LOCATOR LOGS ACROSS MESAVERDE ZONE, SET RBP AT 3864, PRESS TESTED CSG TO 3000#, PRESS HELD, SET PKR AT 3830', CIRC, TOH W/ RBP X PKR, PERF 4680-94 AND 4660-70 W/ 4 JSPF, .37" HOLE AND 19 GRAM CHG, FRAC 4660-94 W/ 478 BBLS WATER, 86,008# 16/30SD, 1,039,312 SCF 70QUALIYT N2 FOAM, FLOW BACK FRAC, BLEW DN PRESS ON CSG, CIRC, PRESS CSG TO 460#, BLEW DOWN TBG, WELL WOULD NOT FLOW, BLEW WELL ALL DAY COULD NOT GET TO FLOW, CIRC, SWAB, SHUT WELL IN, GOT APPROVAL TO PXA, SET CMT RET AT 4525, HAVE RBP AT 4900, SQUEEZE PERFS AT 4660-46700 AND 4680-4694 W/ 100SX CL B, DO RET AND CMT, PRESS TESTED SQUEEZE TO 750, GOOD, CO SAND AND REMOVE RBP, SWABBED, 2 3/8 TBG LANDED AT 6726', GALLUP AND CHACRA ARE BOTH OPEN AND EXPOSED TO SINGLE STRING OF TBG, NO PKR IN HOLE, WELL SHUT IN WAITING ON DOWNHOLE COMMINGLE APPROVAL.

DOCUMENT CMP14818



### ENERGY, MINERALS and NATURAL RESOURCES DIVISION

STATE OF NEW MEXICO



## OIL CONSERVATION DIVISION AZTEC DISTRICT OFFICE

BRUCE KING GOVERNOR ANITA/LOCKWOOD CABINET SECRETARY

HUD RIO BRAZOS ROAD AZTEC, NEW MEXICO 87410 (SIA) 334-6178

11/2/	1. ,
Date: 11/2/95	
	· .
Oil Conservation Division	
P.O. Box 2088	
Santa Fe, NM 87504-2088	
RE: Proposed MC	Proposed DHC
Proposed NSL	
Proposed WFX	Droposed DMY
Proposed NSP	Proposed PMX Proposed DD
rioposed NSF	Floposed DD
Gentlemen:	
Gendenien.	
I have examined the application received on	7/27/95
Thave examined the approacion received on	
for the Umow Lie	in the Contract 148 418
OPERATOR /	LEASE & WELL NO.
_	
F-23-25N-5W	and my recommendations are as follows:
UL-S-T-R	
yprore	
•	
Yours truly,	
<b>→</b> ). <b><!--</b--></b>	



September 22, 1995

Mr. William J. LeMay, Director New Mexico Oil Conservation Division 2040 S. Pacheco Street P. O. Box 6429 Santa Fe, NM 87504

Application for Exception to Rule 303-A - Downhole Commingling Jicarilla Contract 148 #18 Well 1850' FNL, 1590' FWL, Section 23-T25N-R5W Otero Chacra and West Lindrith Gallup-Dakota Pool Rio Arriba County, New Mexico

Southern Rockies Business Unit



Amoco Production Company hereby requests administrative approval to downhole commingle production from the Otero Chacra and West Lindrith Gallup-Dakota Pool in the Jicarilla Contract 148 #18 well referenced above. These two pools have been producing commingled in this well under temporary approval following an unsuccessful recompletion to the Mesaverde. The ownership of these two pools is identical in this wellbore. Downhole commingling will offer an economical method of production while protecting against reservoir damage, waste of reserve and violation of correlative rights.

The BLM and offset operators to this well will receive a copy of this application by certified mail, return receipt requested. If there are any questions concerning this matter, please contact me at (303) 830-5072.

Sincerely,

J. W. Hawkins

**Enclosures** 

cc: Steve Smethie

NMOCD District III 1000 Rio Brazos Road Aztec, NM 87410

Robert Kent Bureau of Land Management 435 Montano NE Albuquerque, NM 87107 Amerada Hess Corp PO BOX 68 Farmington NM 87499

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

#### Requirements

Name and address of the operator: (1)

**Amoco Production Company** P.O. Box 800 Denver, CO 80201

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

Lease Name:

Jicarilla Contract 148

Well Number:

#18

Well Location:

1850' FNL & 1590' FWL

Section 23, T25N-R5W

Rio Arriba County, New Mexico

Pools Commingled:

Otero Chacra

West Lindreth Gallup-Dakota

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

#### Attached

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

Prior to recompletion, the Otero Chacra produced an average stabilized rate of 15 mcfd and no liquids. The West Lindreth Gallup-Dakota zone was loaded up and produced only intermittently. Since the two zones have been commingled they have been producing at an average stabilized rate of about 125 mcfd with some condensate and water.

A production decline curve for both zones showing that for a period of at least one year a steady rate of (5) decline has been established for each zone which will permit a reasonable allocation of the commingled production to each zone for statistical purposes. (This requirement may be dispensed within the case of a newly completed or recently completed well which has little or not production history. However, a complete resume of the well's completion history including description of treating, testing, etc., of each zone, and a prognostication of future production from each zone shall be permitted.)

Otero Chacra Completion:

Historical production curve attached.

West Lindreth Gallup-Dakota Completion:

Historical production curve attached.

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

**BH Pressure** 

SI Tubing Press.

Fluid Level

Otero Chacra Completion:

376psia

330 psig

0,

West Lindreth Gallup-Dakota Completion 789psia

5 psig

4000'

The Chacra BHP is calculated at the top of perfs @ 3885'. The Gallup-BHP is calculated at the top of the perf @ 6396'. When the Gallup pressure is calculated at a common datum as the Chacra (3885') using the gas gradient of 0.017 psi/ft at reservoir conditions, the pressure is 744 psia which is within the 50% tolerance of the pressure limitations.

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

The fluids have no abnormal components that would prohibit commingling, or promote the creation of emulsions or scale (see attached produced gas analysis).

(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 fluids are very similar, we would expect the commingled production to have the same value as the sum of the individual streams.

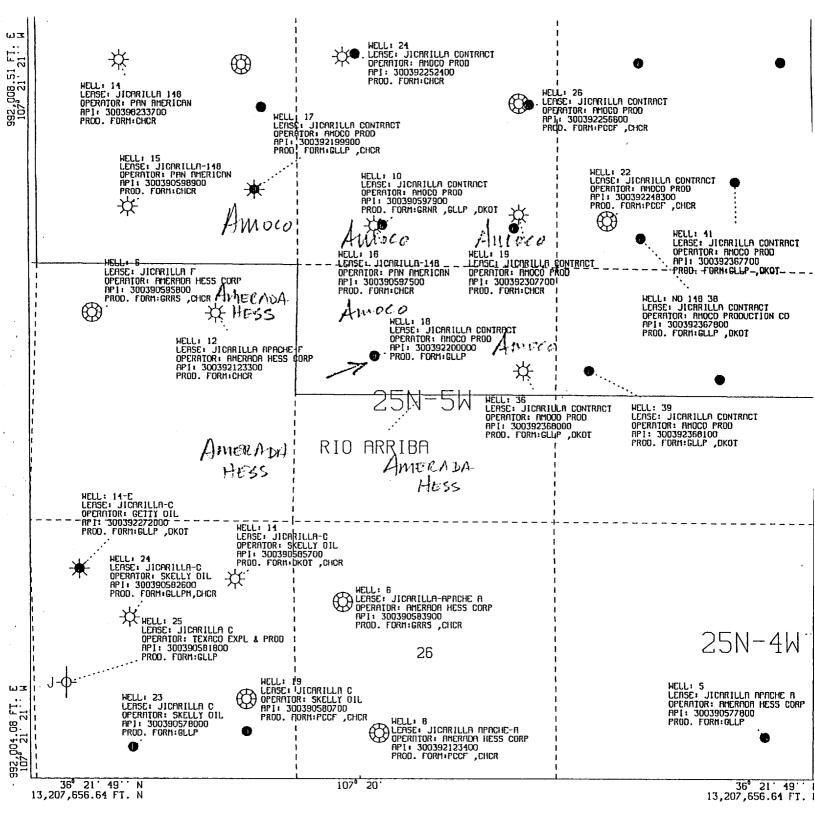
(9) A formula for the allocation of production to each of the commingled zones and a description of the factors or data used in determining such formula:

Based on the historical production for the Chacra making 15 mcfd and no liquids and the Chacra and Gallup zones currently commingled producing an average of about 125 mcfd, we recommend a gas allocation factor of 12% for the Chacra and 88% for the Gallup. We recommend to allocate 100% of the liquids to the Gallup zone.

(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 operator, Amerada Hess Corp., will receive a copy of this application by certified mail.



All geological and geophysical data, including the interpretation thereof, appearing on this map is the private and confidential property of Amoco Production Company. The publication or reproduction thereof without the written permission of said Company is strictly prohibited.

AMOCO PRODUCTION COMPANY
PLAT MAP

POLYCONIC CENTRAL MERIDIAN -  $107^{\circ}$  19' 44'' W LON SPHEROID - 6

JICARILLA CONTRACT 148 NO 18 CHACRA AND GALLUP OFFSET WELLS SCALE 1 IN. = 2.000 FT DEC 16 1994

### STATE OF HEW INEXICO

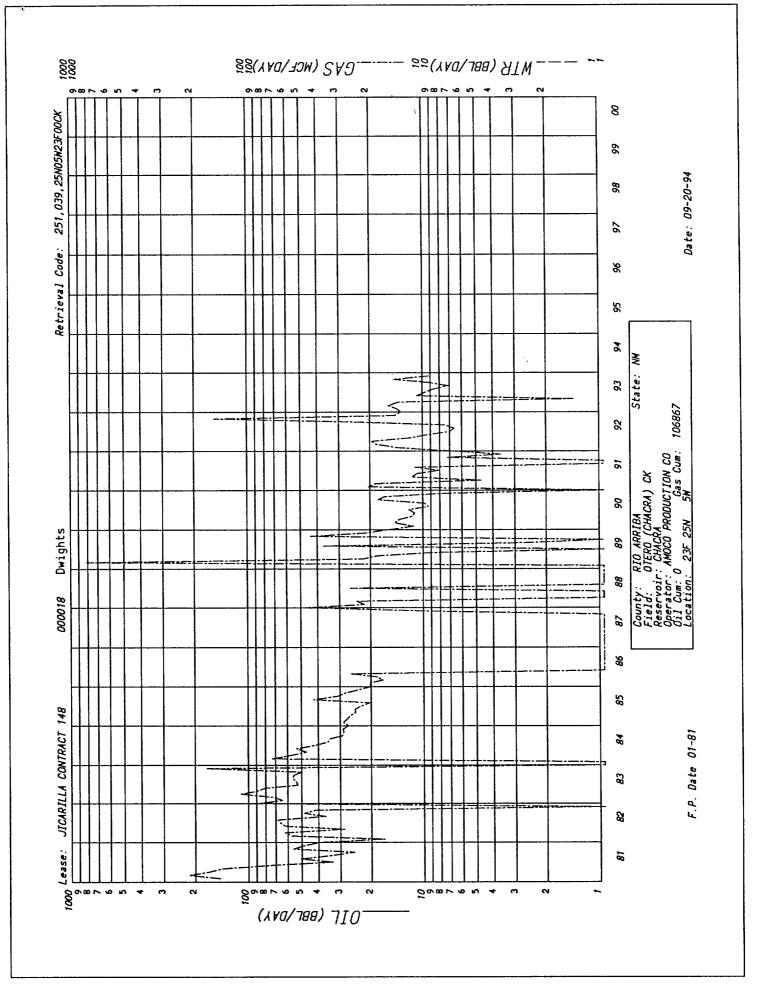
### OIL CONSERVATION DIVISION P. O. BOX 2088

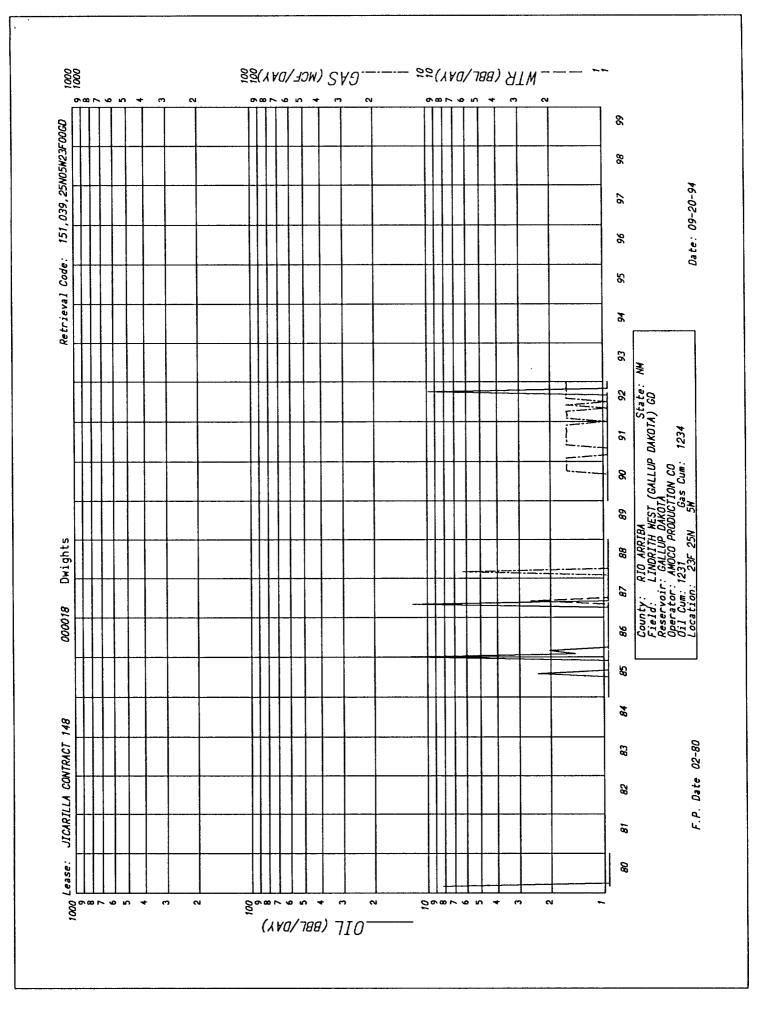
ENERGY AND TAILERALS DEPARTMENT SANTA FE, NEW MEXICO 87501 All distances must be from the nuter boundaries of the Section Well Ho. (4.610161 AMOCO PRODUCTION COMPANY Jicarilla Contract 148 County tintt Letter Section Township Homo 25N Rio Arriba Actual Fastage Location of Well: 1850 1590 North line and feet from the Dedicated Acreoga; Ground Level Clay Pool Producing Formation 6815 Chacra Otero Chacra 160 Actor 1. Outline the acrenge dedicated to the subject well by colored pencil or hachare 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 Il 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, climinating such interests, has been approved by the Division. CERTIFICATION I hereby certify that the Information contained herein is true and complete to the best of my knowledge and belief. Name R.A. DOWNEY Position 1590' DISTRICT ENGINEER AMOCO PRODUCTION COMPANY Sec AUGUST 5, 1980 I hereby certify that the well location shown on this plot 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. Date Surveyed November 30, 1978 Heylatered Professional Engineer and/or Lond Surveyor Original signed by Fred B. Kerr, Jr. Centificate No. between between bend -

3950

### P. O. DOX 2088

JANTA FE, NEW MEXICO 87501 EKERGY AND INITIEDALS DEPARTMENT All distances must be from the outer housedactes of the Section well Ita. 1 \*10101 18 Jicarilla Contract 148 AMOCO PRODUCTION COMPANY Humo Township on Leller Rio Arriba 25N 5W ctual l'astage Location of hell; 1590 North 1850 Dedicated Acresym round Level Clay. Friuducing Formation West Lindrith Gallup-Dakota Gallup-Dakota 6815 1. Outline the acrenge dedicated to the subject well by colored pencil or hochare 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 lense of different ownership is dedicated to the well, have the interests of all owners been consolidated by communitization, unitization, force-pooling. etc? Il answer is "yes," type of consolidation \_ Il unswer 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, climinating such interests, has been approved by the Division. CERTIFICATION I hereby certify that the Information contoined herein is true and complete to the best of my knowledge and belief. B. D. Shaw Adm. Supervisor 1590' Amoco Production Co. December 1, 1986 23 1 hereby certly that the well location shown on this plot was plotted from field is true and correct to the best of my knowledge and belief. Date Surveyed November 30, 1978 Heylatered Professional Engineer widor Luid Surveyor Original signed by Fred B. Kerr, Jr. Centilicate No. 3950





1115 Farmington Avenue Parmington, N.M. 87401 (505) 325-6622 No. ANOS1530 -00-15400

MINGTON NM ;11-15-94; 9:37AM; SENT BY: AMOCO FARMINGTON NM

AMOCO SJOC→ PHONE NO. : 505 326 2555

3038304777;# 4/ 7



1118 Farmington Avenue Farmington, N.M. B7401 (505) 328-6622

Analysis No. AMO41531 Cust. No. 12300 15406

### WELL/LEASE INFORMATION

: AMOCO PRODUCTION COMPANY Company Well Name

: JICARILLA CONT. 148 18 : PIO APPIDA

: NM

State Location Fld/Formation : GALLUP

County

: 23-25N-5N

Cust. Stn. No.

Source

Pressure 1 6 PBIG Sample Temp. : M/A DEG.F

Well Flowing : NO

Date Sampled : 11/13/94 Sampled By : O.D.B.

Foreman/Engr : NIKE ROWLAND

Remarks: PRESSURED W/ HELIUM TO 15#, UNNORMALISED TOTAL = 70.764

#### ANALYSIS

~~~~~~~~~~~~~				
COMPONENT	MOLE &	GPM*≠	B.T.U.*	SP.GR.*
NITROGEN CO2 METHANE ATHANE ATHANE PEOPANE J-BUTANE N-BUTANE J-PENTANE M-PENTANE HEXANES	1.419 1.155 85.828 5.848 3.168 0.505 0.773 0.230 0.172 0.902	0.0000 0.0000 0.0000 1.5643 0.8731 0.1652 0.2437 0.0842 0.0623 0.3935	0.00 0.00 868.84 103.73 79.89 16.46 25.29 9.22 8.91	0.0137 0.0176 0.4754 0.0607 0.0482 0.0101 0.0155 0.0057 0.0043 0.0290
TOTAL	100,000	3.3863	1156.70	0.6802

. @ 14.790 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY \*\* \$ 14.730 & 60 DEG. P

COMPRESEIBILITY FACTOR (1/X) BTU/CU.FT. (DRY) CORRECTED FOR (1/E) BTU/CU.FT. (WHT) CORRECTED FOR (1/Z) HEAL EPECIFIC GRAVITY

1.0030 1160.2 1140.0 0.6820

ANALYSIS BUN AT 14.730 PEIA & 60 DEGREES P

CYLINDER # : AZTOD9 CYLINDER PRESSURE : 5 PBIG DATE RUN : 11/14/94 AKALYSIS RUM DY . CHELLE DURBIN

### JICARILLA CONTACT 148 #18 PRODUCTION ALLOCATION PERCENTAGES

#### PRODUCING WITH A PLUNGER APPROX 125 MCFD

THE CHACRA PRODUCED 15 MCFD, O BOD AND 0 BWD BEFORE PRODUCTION WAS COMMINGLED. THE WELL IS PRODUCING OIL AND WATER NOW, SO THE LIQUIDS SHOULD BE ALLOCATED TO THE GALLUP. THE RECOMMEDED PRODUCTION ALLOCATION FAACTORS ARE:

<u>FORMATION</u>	<u>GAS</u>	OIL	WATER
CHACRA	.12	0	0
GALLUP	.88	1.00	1.00

IF THERE ARE ANY QUESTIONS OR CONCERNS REGARDING THESE RECOMMEDED PRODUCTION ALLOCATION FACTORS, PLEASE CONTACT STEVE SMETHIE (303) 830-5892.

14818DHC

## NEW MEXICO ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION

### CORRECTED ADMINISTRATIVE ORDER DHC-1165

Amoco Production Company P.O. Box 800 Denver, Colorado 80201-0800

Attention: Ms. Pamela Staley

DEGETVED NOV - 2 1995

OIL CON. DIV.

Jicarilla Contract 148 Well No.18

Unit F, Section 23, Township 25 North, Range 5 West, NMPM,

Rio Arriba County, New Mexico.

Otero Chacra (Gas) and West Lindrith Gallup- Dakota Pools

Dear Ms. Staley:

Reference is made to your recent application for an exception to Rule 303-A of the Division Rules and Regulations to permit the subject well to commingle production from both pools in the wellbore.

It appearing that the subject well qualifies for approval for such exception pursuant to the provisions of Rule 303-C, and that reservoir damage or waste will not result from such downhole commingling, and correlative rights will not be violated thereby, you are hereby authorized to commingle the production as described above and any Division Order which authorized the dual completion and required separation of the two zones is hereby placed in abeyance.

In accordance with the provisions of Rule 303-C-4., total commingled oil production from the subject well shall not exceed 30 barrels per day, and total water production shall not exceed 60 barrels per day. The maximum amount of gas which may be produced daily from the well shall be determined by Division Rules and Regulations or by the gas allowable for each respective prorated pool as printed in the Division's San Juan Basin Gas Proration Schedule.

Assignment of allowable to the well and allocation of production from the well shall be on the following basis:

Otero Chacra (Gas) Pool	Oil 0%	Gas 12%
West Lindrith Gallup-Dakota Pool	Oil 100%	Gas 88%

REMARKS: The operator shall notify the Aztec District Office of the Division upon implementation of the commingling process.

Pursuant to Rule 303-C-5, the commingling authority granted by the order may be rescinded by the Division Director if, in his opinion, conservation is not being best served by such commingling.

Approved at Santa Fe, New Mexico on this 20th day of October, 1995.

STATE OF NEW MEXICO OIL CONSERVATION DIVISION

WILLIAM J. LEMAY

Director

SEAL

WJL/BES

cc: Oil Conservation Division - Aztec

Bureau of Land Management - Farmington