LOGGED BY

ABOVE THIS LINE FOR DIVISION USE ONLY

#### NEW MEXICO OIL CONSERVATION DIVISION

- Engineering Bureau -

### ADMINISTRATIVE APPLICATION COVERSHEET

THIS COVERSHEET IS MANDATORY FOR ALL ADMINISTRATIVE APPLICATIONS FOR EXCEPTIONS TO DIVISION RULES AND REGULATIONS 163 **Application Acronyms:** [NSP-Non-Standard Proration Unit] [NSL-Non-Standard Location] [DD-Directional Drilling] [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] TYPE OF APPLICATION - Check Those Which Apply for [A] [1] Location - Spacing Unit - Directional Drilling □ NSL □ NSP CIC CI Check One Only for [B] and [C] Commingling - Storage - Measurement DHC DHC ☐ CTB □ PLC ☐ PC OLS OLS OLM OLM Injection - Disposal - Pressure Increase - Enhanced Oil Recovery □ WFX  $\square$  PMX □ SWD ☐ IPI ☐ EOR ☐ PPR NOTIFICATION REQUIRED TO: - Check Those Which Apply, or \(\sigma\) Does Not Apply [2] ☐ 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 Œ For all of the above, Proof of Notification or Publication is Attached, and/or, F ☐ Waivers are Attached INFORMATION / DATA SUBMITTED IS COMPLETE - Statement of Understanding [3] I hereby certify that I, or personnel under my supervision, have read and complied with all applicable Rules

and Regulations of the Oil Conservation Division. Further, I assert that the attached application for administrative approval is accurate and complete to the best of my knowledge and where applicable, verify that all interest (WI, RI, ORRI) is common. I understand that any omission of data, information or notification is cause to have the application package returned with no action taken.

Note: Statement must be completed by an individual with supervisory capacity.

Robin S. McCarley Print or Type Name

Technical Assistant

11/07/97



November 6, 1997

State of New Mexico Oil Conservation Division 2040 S. Pacheco Santa Fe, NM 87505-6429

Re:

C. D. Woolworth Lease, Well #4 Unit L, Section 30-T24S, R37E Lea County, New Mexico

#### Gentlemen:

Your administrative approval is requested for an exception to Rule 303-C to permit down-hole commingling of Jalmat Yates Seven Rivers and Langlie Mattix Seven Rivers Queen production in the subject well.

Please find enclosed all pertinent data regarding this application as outlined in Rule No. 303-C.

Sincerely,

Robin S. McCarley
Technical Assistant

**Enclosures** 

cc:

State of New Mexico Oil Conservation Division

P. O. Box 1980

Hobbs, New Mexico 88240-1980

DISTRICT II

P.O. Box 1980, Hobbs, NM 88241-1980

State of New Mexico Energy, Minerals and Natural Resources Department

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

## **OIL CONSERVATION DIVISION**

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

APPROVAL PROCESS:

\_\_\_ Administrative \_\_\_Hearing

EXISTING WELLBORE

## 811 South First St., Artesia, NM 88210-2835

DISTRICT III

1000 Rio Brazos Rd, Aztec, NM 87410-1693

APPLICATION FOR DOWNHOLE COMMINGLING

X YES \_\_ NO

Arch Petroleum Inc.	10 Desta Drive, Suite	420E Midland, Texa	s 79705
C. D. Woolworth		30 24S 37E - Sec - Twp - Rge	Lea County
OGRID NO. 000962 Property Code		Spacing U	nit Lease Types: (check 1 or more)
The following facts are submitted in the support of glownhole committed in the support of the su	Upper Zone	Intermediate Zone	Lower. Zone
Pool Name and     Pool Code	(33820) Jalmat Tansill		(37240) Langlie Mattix
Top and Bottom of     Pay Section (Perforations)	3190 - 3335		3414 - 3662
3. Type of production (Oil or Gas)	011		011
4. Method of Production (Flowing or Artificial Lift)	Artificial Lift		Artificial Lift
5. Bottomhole Pressure Oil Zones - Artificial Lift: Estimated Current	a. (Current) 1400	a.	a. 1450
Gas & Oil - Flowing:  Measured Current  All Gas Zones: Estimated Or Measured Original	b. <sup>{Original}</sup>	<b>b.</b>	b. ·
6. Oil Gravity ( <sup>°</sup> API) or Gas BTU Content	35.6		26.5
7. Producing or Shut-In?	Producing		Producing
Production Marginal? (yes or no)	Yes		Yes
* If Shut-In, give date and oil/gas/ water rates of last production  Note: For new zones with no production history, applicant shall be required to attach production	Date: Retes:	Date: Rates:	Date: Rates:
estimates and supporting data  * If Producing, give date andoil/gas/ water rates of recent test (within 60 days)	Dete: 11/05/97 Rates: 5 BO 69 MCF 6608R	Date: Rates:	Date: 07/02/97 Rates: 2 BO 13 MCF 10 BW
8. Fixed Percentage Allocation Formula -% for each zone	Oii: 72 % Gas: 86 %	Oil: Gas: %	Oil: 28 % Ges: 14 %
If allocation formula is based a submit attachments with sup-	upon something other than cur porting data and/or explaining (	rent or past production, or is be method and providing rate proj	ased upon some other method, ections or other required data.
10. Are all working, overriding, and if not, have all working, over the Have all offset operators been	nd royalty interests identical in riding, and royalty interests bee given written notice of the pro	all commingled zones? en notified by certified mail? posed downhole commingling?	X Yes — No Yes — No X Yes — No
11. Will cross-flow occur?	es X No If yes, are fluids of	compatible, will the formations	
12. Are all produced fluids from a	all commingled zones compatible	le with each other? $X$	Yes No
13. Will the value of production b			•
14. If this well is on, or communi United States Bureau of Land			
15. NMOCD Reference Cases for	Rule 303(D) Exceptions:	ORDER NO(S). DHC-	1480
	ne to be commingled showing in or each zone for at least one ye production history, estimated procession method or formula. all offset operators. working, overriding, and royalty tements, data, or documents re		
I hereby certify that the informati	on above is true and complete	to the best of my knowledge a	and belief.
SIGNATURE Robert S.			
TYPE OR PRINT NAME Robin	//		

#### ARCH PETROLEUM INC.

#### C. D. WOOLWORTH #4

Approval is requested for an exception to Rule 303-C to permit down-hole commingling of the Jalmat Yates Seven Rivers and Langlie Mattix Seven Rivers Queen production in the subject well.

The C. D. Woolworth lease has permission to surface commingle other production from the Jalmat and Langlie Mattix zones as well as permission to down-hole commingle production from these zones in our C. D. Woolworth #5 well under Administrative Order DHC-1480.

This Langlie Mattix is currently being pumped into a tank.

The fluids show no evidence of incompatibility; therefore, down-hole commingling is not expected to result in reservoir damage. Ownership in the two pools is common and correlative rights will not be violated.

Should secondary recovery operations become practical in the future, the two zones could be separated at such time without damaging either reservoir.

Offset operators have been notified of the intent to down-hole commingle the subject well by letter dated October 2, 1997.

Robin S. McCarley Technical Assistant

Robin S. M. Carley

District 1 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 2040 South Pacheco, Santa Fe, NM 87505

## State of New Mexico

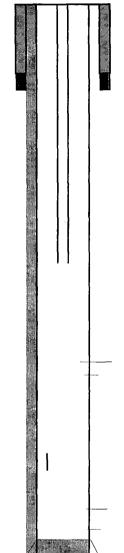
Energy, Minerals & Natural Resources Department

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

		W	/ELL LO	CATION	AND A	CRE	EAGE DEDIC	ATION PLA	Τ.		
	API Number 0-025-2546	<b>34</b>		₂Pool Code ₃Pool Name 37240/33820 Langlie Mattix/Jalmat Oil			ne				
₄Property 0 01489		C. D. W	Voolworth	sProperty Name				∘Well Number 4			
70GRID 00096		Arch Pe	etroleum, Ir	Dieum, Inc.				∍Elevation 3265			
					₀Surfac	e L	ocation				
UL or lot no. L	Section 30	Townsh 24S	Range 37E	Lot Idn	Feet from 208		North/South line South	Feet from the 760	East/W	est Line est	County Lea
L			"Botto	m Hole	Location	ı If [	Different From	Surface		<u> </u>	······
UL or lot no.	Section	Townsh	nip Range	Lot Idn	Feet from	the	North/South line	Feet from the	East/W	est Line	County
12Dedicated A	Acres 13Joi	nt or Infill	14Consolida	lion Code	ısOrder No.	,			<u></u>		
NO ALLOV	VABLE V						ON UNTIL ALL II			EN CON	SOLIDATED
								Signature Robin S. M Printed Name Technical Title 09-22-97 Date	McCarley Assistant	My C	ntained herein is nowledge and belief
<del>( - 7</del> 60' <del>- )</del>	- 10 to							I hereby certify was plotted from	that the we m field note pervision, a est of my be	Il location st s of actual s nd that the s elief.	IFICATION hown on this plat curveys made by me same is true end  urveyer:
	į							Certificate Nu	mber		

Lease	C. D. WO	OLWORTH	Well No.	4	
Location	2080	FSL	and	760	FWL
Unit	L	Section	30	Township	248
Range	37E	County	Lea	State	NM



GE 3265 KB to GE 13 '

Surface	Casing	
845/8" "	OD Surface	
Set @	365	ft
Cmt with	300	sx
Cmt circulated	YES	

Completion date 10-Apr-77
Initial Formation LANGLIE MATTIX

From	3414'	to	3662'
_	BOPD	GAS	BWPD
Initial Production	48		81

#### **Completion Data:**

1977 LANGLIE MATTIX 3414-16,3454-56,3502-04,3563-65, 3592-94,3628-30,3660-62

JALMAT PERFS 3190-3371' Subsequent Workovers or Reconditionings:

1997 JALMAT PERFS ADDED : 3190' - 3371', 2 JHPF, TOTAL OF 24 HOLES

ACIDIZED W/120 GAL. 15% HCL NEFE ACID FRAC W/27,000 GAL. SFG 3000 AND 38,000 # 20/40 SAND

10/97 SET RETRIEVABLE BRIDGE PLUG AND BEGAN TESTING JALMAT COMPLETION

LANGLIE MATTIX PERFS 3414-3662'

PBTD 3680' TD 3700'

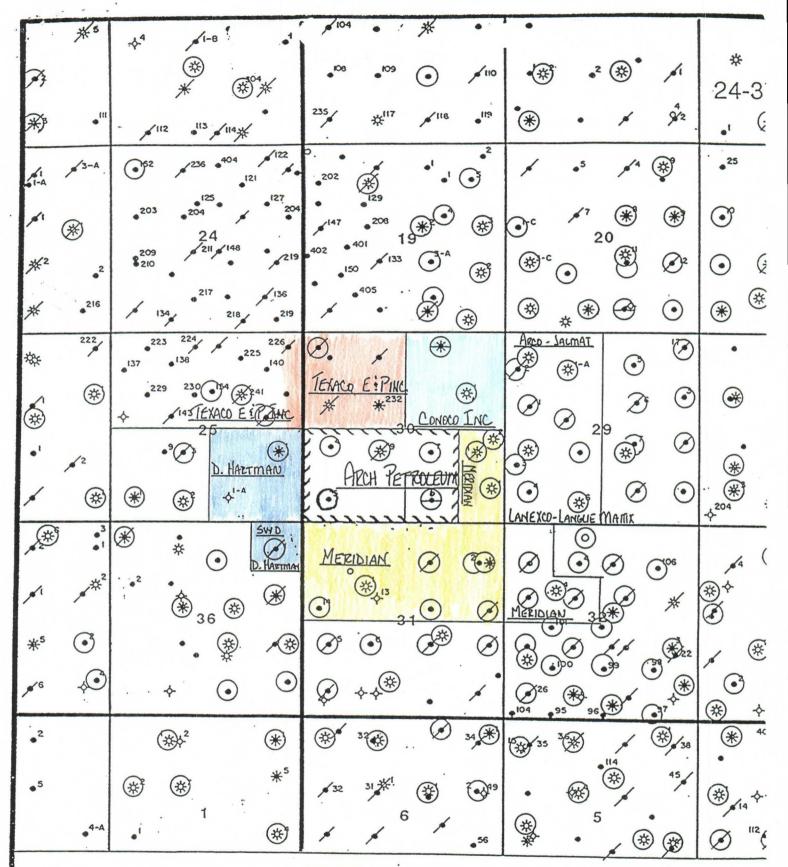
Produ	ction Cas	ing
4 1/2	" OD	
9 1/2	#	
Grade	K-55	
Set @	3700	ft
Cmt with	1100	sx
TOC @	SURF	

### **EXHIBIT** 1

## OFFSET OPERATORS

DHC - C. D. Woolworth #4 Unit L, Sec. 30, T24S, R37E Lea County, New Mexico

	Conoco, Inc. P. O. Box 2197 Houston, TX 77079-1175
	Doyle Hartman 500 North Main Midland, Texas 79701
₩ L	Burlington Resources P. O. Box 4239 Midland, Texas 77210-4239
T.	Texaco E & P Inc. 4601 DTC Boulevard Denver, CO 80237-2549



C.D. WOOLWORTH LEASE

· &.



November 6, 1997

Re:

DHC - C. D. Woolworth #4 Unit L, Sec. 30, T23S, R37E Lea County, New Mexico

To:

All Offset Operators

We are enclosing our application to down-hole commingle the production from the Langlie Mattix and Jalmat zones in the above well.

We have previously obtained permission to down-hole commingle these same zones in our C. D. Woolworth #5 and #6.

If you have any questions, please call me at (915) 685-1961.

Sincerely,

Robin S. McCarley
Technical Assistant

Enclosures



#### STATE OF NEW MEXICO

## ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

# OIL CONSERVATION DIVISION HOBBS DISTRICT OFFICE

GOVERNOR

11/19/97

POST OFFICE BOX 1980 HOBBS, NEW MEXICO 88241-1980 (505) 393-6161

OIL CONSERVATION DIVISION P. O. BOX 2088 SANTA FE, NEW MEXICO 87501
RE: Proposed: MC DHC NSL NSP SWD WFX PMX
Gentlemen:
I have examined the application for the:  Arch Petroleum Inc. CD Weelworth #4-L-30.24-3 Operator Lease & Well No. Unit S-T-R
and my recommendations are as follows:
None
Yours very truly,

/ed

Chris Williams

Supervisor, District 1