LOGGED BY ENGINEER

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
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]
[1] TYPE OF APPLICATION - Check Those Which Apply for [A]
[1] TYPE OF APPLICATION - Check Those Which Apply for [A] [A] Location - Spacing Unit - Directional Drilling NOV 2 997
Check One Only for [B] and [C] [B] Commingling - Storage - Measurement
DIDHC CICTB PLC PC CIOLS CIOLM
[C] Injection - Disposal - Pressure Increase - Enhanced Oil Recovery ☐ WFX ☐ PMX ☐ SWD ☐ IPI ☐ EOR ☐ PPR
[2] NOTIFICATION REQUIRED TO: - Check Those Which Apply, or Does Not Apply
[A] Working, Royalty or Overriding Royalty Interest Owners
[B]
[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
[E]
[F]
[3] INFORMATION / DATA SUBMITTED IS COMPLETE - Statement of Understanding
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
Title

11/07/97

Date



November 7, 1997

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

Re:

C. D. Woolworth Lease, Well #9 Unit N, 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

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

State of New Mexico Energy, Minerals and Natural Resources Department

s Month

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

DISTRICT III

DISTRICT II

1000 Rio Brazos Rd, Aztec, NM 87410-1693

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

APPLICATION FOR DOWNHOLE COMMINGLING

TING WELLBORE

X YES __ NO

Arch Petroleum Inc.	10 Desta Drive, Suite	420E Midland, Tex	as 79705			
Operator C. D. Woolworth Lease		•	Lea			
OGRID NO000962_ Property Code		Cassina II	nie Lanca Typon (aback 1 or mara)			
The following facts are submitted in a support of downhole commingling:	Upper Zoné.	Intermediate Zone	Lower Zone			
Pool Name and Pool Code	(33820) Jalmat Tansill		(37240) Langlie Mattix			
Top and Bottom of Pay Section (Perforations)	3161-3371		3575-3655			
3. Type of production (Oil or Gas)	0i1		0il			
Method of Production (Flowing or Artificial Lift)	Artificial Lift		Artificial Lift			
5. Bottomhole Pressure Oil Zones - Artificial Lift: Estimated Current	a. (Current) 1410	а.	a. 1450			
Estimated Current Gas & Oil - Flowing: Measured Current All Gas Zones: Estimated Or Measured Original	ხ. ^(Original)	b.	b.			
6. Oil Gravity (*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: Rates:	Date: Rates:	Date: Rates:			
estimates and supporting data * If Producing, give date andoil/gas/ water rates of recent test (within 60 days)	Date: 11/04/97 Rates: 2 BO 56 MCF 36 BW	Date: Rates:	Date: 09/25/97 Rates: 14 BO 38 MCF 66 BW			
8. Fixed Percentage Allocation Formula -% for each zone	Oii: Gas: 60 %	Oil: Gas: %	Oil: 88 % Gas: 40 %			
 If allocation formula is based upon something other than current or past production, or is based upon some other method, submit attachments with supporting data and/or explaining method and providing rate projections or other required data. 						
10. Are all working, overriding, and royalty interests identical in all commingled zones? If not, have all working, overriding, and royalty interests been notified by certified mail? Have all offset operators been given written notice of the proposed downhole commingling? X Yes No No						
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 reliable. Yes No (If No, attach explanation)						
12. Are all produced fluids from all commingled zones compatible with each other? X'YesNo						
13. Will the value of production be decreased by commingling? Yes X No (If Yes, attach explanation)						
14. 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						
15. NMOCD Reference Cases for Rule 303(D) Exceptions: ORDER NO(S). DHC-1480						
* C-102 for each zone to be commingled showing its spacing unit and acreage dedication. * Production curve for each zone for at least one year. (If not available, attach explanation.) * For zones with no production history, estimated production rates and supporting data. * Data to support allocation method or formula. * Notification list of all offset operators. * Notification list of working, overriding, and royalty interests for uncommon interest cases. * Any additional statements, data, or documents required to support commingling.						
I hereby certify that the information	on above is true and complete	to the best of my knowledge a	nd belief.			
SIGNATURE Rolen S. MCarley TITLE Tech. Asst. DATE 11/07/97						

ARCH PETROLEUM INC.

C. D. WOOLWORTH #9

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

WELLBORE DIAGRAM

WELL: C. D. WOOLWORTH #9

FIELD: LANGLIE MATTIX & JALMAT OIL

SPUDDED:

COMPLETION DATE: # API#: 30-025-32863

LOCATION: SEC 30, 24S-37E

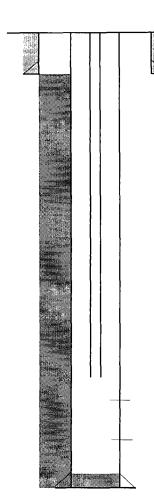
660' FSL & 1980' FWL OF SEC.

LEA CO., NM

PRODUCING ZONE LANGLIE MATTIX & JALMAT OIL

KB = 3263.2 GL = 3253

DATA:



Surface Casing:

8 5/8" 24# K-55 @ 460' RKB W/ 270 SX, CMT CIRC

Tubing String:

2 3/8" 4.7# J-55 EUE @ 3313 W/ SN @ 3246

Rods & Pump data:

127 3/4'S 2 X 1 1/4

JALMAT PERFS 3175, 83, 3205, 44, 59, 88, 96, 3312, 23, 36, 47, & 58 (24 HOLES)

LANGLIE MATTIX PERFS 3475, 3535, 39, 49, 60, 75, 80, 94, 3641, & 55 (40 HOLES)

5 1/2" 15.5# K-55 @ 3800' RKB W/ 700 SX, DID NOT CIRC

PBTD 3758 TD = 3800'

PUMPING UNIT:

CHRONO:

5-95 PERF LANGLIE MATTIX, ACD W/ 2100 GALS 15% NEFE, FRAC W/ 54M GALS & 161M # 12/20 SN @ 35BPM SCREEN OUT @ 8 #/GAL

8-2-97 18 BO X 58 BW X 29 MCFG

9-97 SET CIBP @ 3400, PERF JALMAT, ACD W/ 2500 GALS 15 % NEFE, FRAC W/ 40M GALS & 136M# 12/20SN TRIED TO SCREEN OUT @ 6 #/GAL, CLN OUT W/ AIR

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 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

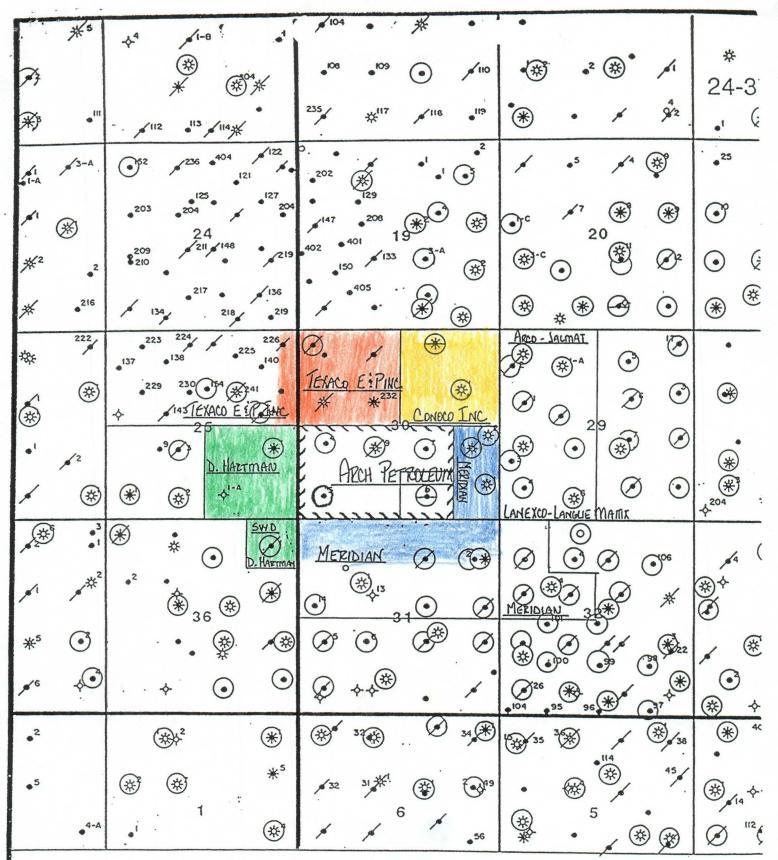
	API Number	WE	LL LO	CATION 2Pool Code		CRE	EAGE DEDIC	ATION PLA			
	-025-3286	3		37240/33		Lang	glie Mattix/Jalmat		ille		
4Property Code 014899 C. D. Wool			olworth	₅Property Name worth					eWell Number 9		
70GRID No. 000962 Arch Petrol			oleum, In	sOperator Name eum, Inc.						eElevation 3253	
					₀Surfac	e Lo	ocation			<u> </u>	
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			"Botto	m Hole	Location	If C	Different From	Surface			
UL or lot no.	Section	Township	Range	Lot idn	Feet from	the	North/South line	Feet from the	East/W	est Line	County
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EXHIBIT 1

OFFSET OPERATORS

DHC - C. D. Woolworth #9 Unit N, 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
- Burlington Resources
 P. O. Box 4239
 Midland, Texas 77210-4239
- Texaco E & P Inc. 4601 DTC Boulevard Denver, CO 80237-2549



C.D. WOOLWORTH LEASE

P

· &.



November 6, 1997

Re:

DHC - C. D. Woolworth #9 Unit N, 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





ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION HOBBS DISTRICT OFFICE

GOVERNOR

1/19/97

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 V NSL NSP SWD WFX PMX	
Gentlemen:	
I have examined the application for the: Arch Petroleum Inc. O War Operator Lease & Well No. Un	eplworth #9-N-3D-24-3
and my recommendations are as follows:	
Mone	

Yours very truly,

Chris Williams Supervisor, District 1

/ed