DATE IN 1/24/97 | SUSPENSE /2/15/97 | ENGINEER DC | LOGOED BY, KW | TYPE DHC

ABOVE THIS LINE FOR DIVISION LISE 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 169 **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 [A] ☐ NSP ממ 🗖 Check One Only for [B] and [C] Commingling - Storage - Measurement ☐ CTB DHC ☐ PLC ☐ PC 🖸 OLS OLM OLM Injection - Disposal - Pressure Increase - Enhanced Oil Recovery □ WFX TPT ☐ FOR ☐ PPR [2] [A] ☐ Working, Royalty or Overriding Royalty Interest Owners B Offset Operators, Leaseholders or Surface Owner ☐ 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 Œl ☐ 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



November 20, 1997

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

Re:

H. T. Mattern Lease, Well #4 Unit K, Section 30-T21S, R37E Lea County, New Mexico

Gentlemen:

Your administrative approval is requested for an exception to Rule 303-C to permit down-hole commingling of the Blinebry and Drinkard 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 Administrator

Enclosures

cc:

State of New Mexico

Oil Conservation Division

P. O. Box 1980

Hobbs, New Mexico 88240-1980

State of New Mexico Energy, Minerals and Natural Resources Department

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

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

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

APPROVAL PROCESS: _ Administrative ___Hearing

DISTRICT III

1000 Rio Brazos Rd, Aztec, NM 87410-1693

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

APPLICATION FOR DOWNHOLE COMMINGLING

EXISTING WELLBORE X YES _ NO

Arch Petroleum Inc. 10 D	esta Drive, Suite 420E Address	Midland, Texas 79705	
H. T. Mattern	4 K Wall No. Unit Ltr.	30, 21S, 37E	Lea Co., NM
OGRID NO. 000962 Property Code			•
The following free city of submitted line of the following free city of the committed line of the following free city of the city of the following free city of the free city of the following free city of the free city of the following free city of the free city of the following free city of	Zoner Zoner	Intermediates in a limited and 2001	Zene za zakana za zakana z
Pool Name and Pool Code	(06660) Blinebry		(19190) Drinkard
Top and Bottom of Pay Section (Perforations)	5527-5959		6652-6679
3. Type of production (Oil or Gas)	Oil		∴. Oil
4. Method of Production (Flowing or Artificial Lift)	Artificial Lift		Artificial Lift
5. Bottomhole Pressure Oil Zones - Artificial Lift: Estimated Current	a. (Current) 1000	a.	a. 1100
Gas & Oil - Flowing: Measured Current Measured Current All Gas Zones: Estimated Or Measured Original	b. (Original)	b.	b.
6. Oil Gravity (°API) or Gas BTU Content	34.1		34.9
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: Rotes:	Date: Rates:	Dete: 05/07/97 Rates: 2 BO 5 MCF 7 BW
If Producing, give date andoil/gas/ water rates of recent test (within 60 days)	Date: 07/11/97 Rates: 12 BO 204 MCF 216 BW	Date: Rates:	Date: Rates:
8. Fixed Percentage Allocation Formula -% for each zone	Oil: 85 % Gas: 96 %	OII: Gas: %	OII: 15 % Gas: 4 %
If allocation formula is based a submit attachments with sup	upon something other than cur	rent or past production, or is b	ased upon some other method,
10. Are all working, overriding, as If not, have all working, over Have all offset operators been			
11. Will cross-flow occur? flowed production be recover	Yes \underline{X} No $$ If yes, are fluids ed, and will the allocation form	compatible, will the formations ula be reliable. Yes	not be damaged, will any cross- No (If No, attach explanation)
12. Are all produced fluids from a			
13. Will the value of production but 14. If this well is on, or community	b .		•
14. If this well is on, or communi United States Bureau of Land15. NMOCD Reference Cases for			
16. ATTACHMENTS: * C-102 for each zo * Production curve f * For zones with no * Data to support all * Notification list of	ne to be commingled showing or each zone for at least one y production history, estimated location method or formula, all offset operators, working, overriding, and royalt tements, data, or documents re	its spacing unit and acreage de ear. (If not available, attach e production rates and supporting	edication. xplanation.) g data.
I hereby certify that the informat	ion above is true and complete	to the best of my knowledge	and belief.
SIGNATURE Rolem		, ,	
TYPE OR PRINT NAME Robin	n S. McCarley	TELEPHONE NO. (915) 685-1961

ARCH PETROLEUM INC. H. T. Mattern Lease, Well #4 Blinebry & Drinkard Lea County, New Mexico

Approval is requested for an exception to Rule 303-C to permit down-hole commingling of the Blinebry and Drinkard production in the subject well.

These zones are currently being down-hole commingled in our Lea ACL State #1 under Administrative Order DHC-677.

Currently, production from the Blinebry is being pumped into a tank and a Retrievable Bridge Plug is set at 6215'.

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 without damaging either reservoir.

Offset operators have been notified of the intent to down-hole commingle the subject well by letter dated November 20, 1997.

Robin S. McCarley

Technical Administrator

WELLBORE DIAGRAM

WELL: MATTERN #4

FIELD: BLINBRY & DRINKARD

SPUDDED:

COMPLETION DATE: 4/24/97

API#:

30-025-33544

LOCATION: SEC 30-21S-37E 2310' FSL & 2310' FWL

LEA CO., NM

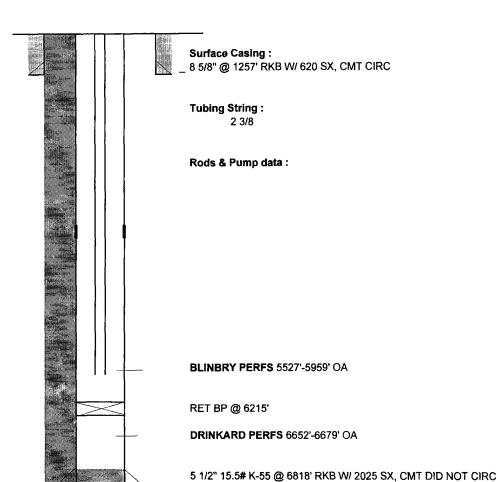
PRODUCING ZONE: BLINBRY

KB = GL =

3506 3491

۸.

DATA:



PBTD 6215' TD = 6818'

PUMPING UNIT:

CHRONO:

- 4-97 PERF DRINKARD 6652-59, 69-79, W/4JSPF. ACD W/ 1100 GLS 15% NEFE & PPI PACKER FRAC W/ 22 M GALS W/ 60,980 # 16/30 SN. Screened out @ 4450#; IPP 6 BOPD X 10 BWPD
- 5-97 SET RTB @ 6215'; PERF BLINEBRY 5527-5959; (23 SELECTIONS, 4 1/2" JHPF) TOTAL OF 92 HOLES AD W/4700 GLS 15% NEFE USING PPI PACKER FRAC W/70M GALS W/205M # 161/30 SN; IPP 18 BOPD X 240 BWPD

WELLBORE DIAGRAM

WELL: MATTERN #4

FIELD: BLINBRY & DRINKARD

SPUDDED:

COMPLETION DATE: 4/24/97

API#: 30-025-33544

DATA:

LOCATION: SEC 30-21S-37E

2310' FSL & 2310' FWL OF SEC.

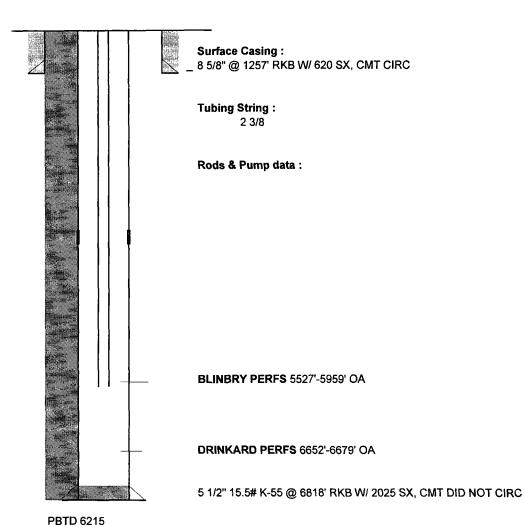
LEA CO., NM

PRODUCING ZONE: BLINBRY

KB = 3506

GL = 3491

PROPOSED COMPLETION



TD = 6818

PUMPING UNIT:

CHRONO:

- 4-97 PERF DRINKARD 6652-59, 69-79, W/4 JHPF. ACD W/1100 GLS 15% NEFE & PPI PACKER FRAC W/ 22 M GALS W/ 60,980 # 16/30 SN. Screened out @ 4450#; IPP 6 BOPD X 10 BWPD
- 5-97 SET RTB @ 6215'; PERF BLINEBRY 5527-5959; (23 SELECTIONS, 4 1/2" JHPF) TOTAL OF 92 HOLES AD W/4700 GLS 15% NEFE USING PPI PACKER FRAC W/70M GALS W/205M # 161/30 SN; IPP 18 BOPD X 240 BWPD

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

State Lease - 4 Copies Fee Lease - 3 Copies

AMENDED REPORT

	API Number								·····			
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	1						,	Date				
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District I PO Box 1980, Hobbs, NM 88241-1980 State of New Mexico

Energy, Minerals & Natural Resources Department

Form C-102
Revised October 18, 1994
Instructions on back
Submit to Appropriate District Office

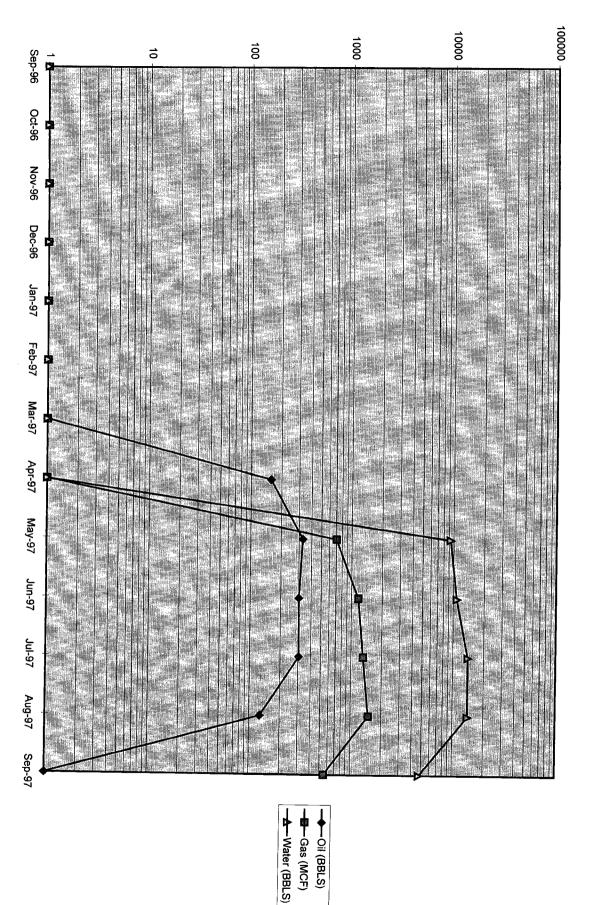
District II 811 South First, Artesia, NM 88210 District III 1000 Rio Brazos Rd., Aztec, NM 87410

OIL CONSERVATION DIVISION 2040 South Pacheco Santa Fe NM 87505 State Lease - 4 Copies Fee Lease - 3 Copies

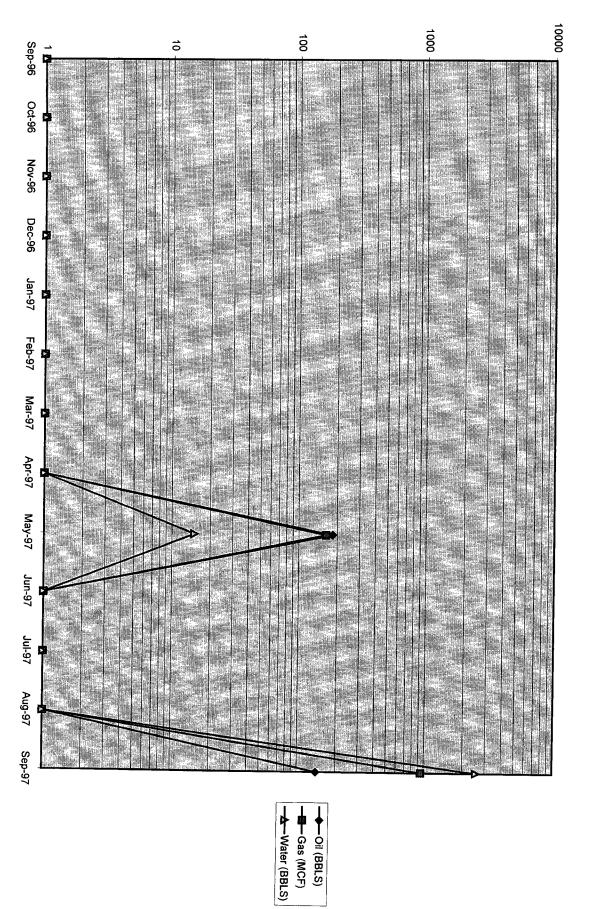
District IV 2040 South Pacheco, Santa Fe, NM 87505

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		<u> </u>			"Surfac	ce L	ocation			<u>L</u>	
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								Certificate Nu	mber		

MATTERN #4 - BLINEBRY PRODUCTION



MATTERN #4 - DRINKARD PRODUCTION



Arch Petroleum Inc.

H. T. Mattern Lease, Well #4 Lea County, New Mexico

Offset Operators

- Santa Fe Energy Resources 550 W. Texas Ave., Suite 1330 Midland, Texas 79701
- Chevron U.S.A. Production Company Box 1635 Houston, Texas 77251
- Texaco, Inc.
 Box 3109
 Midland, Texas 79702

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November 20, 1997

Re: DHC - H. T. Mattern #4

Unit K, Sec. 30, T21S, R37E Lea County, New Mexico

To: All Offset Operators

We are enclosing our application to down-hole commingle the production from the Blinebry and Drinkard zones in the above well.

We have previously obtained permission to down-hole commingle these same zones in our Lea ACL State #1 under DHC-677

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

Sincerely,

Robin S. McCarley

Technical Administrator

Enclosures

STATE OF NEW MEXICO



ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION HOBBS DISTRICT OFFICE

GOVERNOR ...

/ed

11/24/97

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 H.T. Mattern 4-K-30-2(5-37e) Operator Lease & Well No. Unit S-T-R
and my recommendations are as follows:
Yours very truly,
Chris Williams Supervisor, District 1