

American Exploration Company

May 9, 1989



MAY 15 1989

OIL CONSERVATION DIV.

New Mexico Oil Conservation Division P. O. Box 2088 Santa Fe, New Mexico 87501

Gentlemen:

Re: Application for Downhole Commingling of the Teague Blinebry and Abo Pools Elk State No. 1
Sec. 16, T23S, R37E
Lea County, New Mexico

American Exploration Company respectfully requests administrative approval under the provisions of Rule 303-C to downhole commingle the Teague Blinebry and Abo/Drinkard pools in the Elk State No. 1 Well. This well is presently completed in the Teague Blinebry Oil Pool and produces 9 BOPD, 40 MCFPD and 2 BWPD. We recently tested the undesignated Abo for 10 BOPD, 130 MCFPD and 30 BWPD. Producing only the Blinebry is economically marginal due to the low rates, but commingling the two zones should return the well to profitability.

A summary of information required for commingling is attached. Additionally, American has a 100% interest in this lease and the royalty interests of each zone are common. Based on the information we have gathered, we believe the request to commingle is justified in the interest of conservataion.

If there are any questions, please contact the undersigned as soon as possible.

Very truly yours,

AMERICAN EXPLORATION COMPANY

Marty B. McClanahan Sr. Production Analyst

MBM:mm Encl.

cc: Mr. J. T. Sexton

New Mexico Conservation Division

P. 0. Box 1980

Hobbs, New Mexico 88240

Elk State No. 1 Information for Downhole Commingling

- a. Operator: American Exploration Company 2100 RepublicBank Center Houston, Texas 77002
- b. Lease, Well Location and Pools: Elk State No. 1 330' FSL & 2310' FWL of Sec. 16, T23S, R37E Lea County, New Mexico Teague Blinebry and Undesignated Abo Pools
- c. Acreage Dedication (40 acres) Form C-102 is attached. Offset operators are listed on schedule attached.
- d. 24 hour productivity test Form C-116 attached.
- e. Commingling Computations Attached.
- f. Allocation of Production based on latest production tests.

		<u>0 i 1</u>	<u>G</u>	a s	Water
Blinebry	9	47%	40 2	4 %	6 %
Undesignated	A b o/0	53%	/30 7	6 %	94%

- g. Notification to Offset Operators.
 A copy of the notice sent to offset operators.
- h. A complete resume of the well's completion history.
- i. Fluid Compatibility See attached water analysis.



American Exploration Company

May 8, 1989

Re: Notification of Intent to Commingle the Teague Blineby and Abo Pools Elk State No. 1 330' FSL & 2310' FWL of Sec. 16, T23S, R37E Lea County, New Mexico

OFFSET OPERATORS ELK STATE NO. 1 LEASE

Gentlemen:

In accordance with New Mexico Oil Conservation Division regulations, you are hereby notified of American Exploration Company's application to downhole commingle production from the Teague Blinebry and Undesignated Abo pools in the Elk State Well No. 1 Lease.

Very truly yours,

AMERICAN EXPLORATION COMPANY

Marty B. McClanahan

Sr. Production Analyst

MBM:mm

LIST OF OFFSET OWNERS ELK STATE NO. 1 LEASE

NE/4, SW/4, Sec. 16, T23S, R37E, Lea County, New Mexico

Texaco, Inc.
P. 0. Box 3109
Midland, Texas 79702
(NE/4 SW/4 of Sec. 16, 3800-6200')

Chevron, U.S.A. Inc. (D/R NW/4-21) P. O. Box 1635 (D/R W/2 NE/4-21) Houston, Texas 77251

Zachary Oil Operating (to 3700'-W/2 NE/4-21) 1212 Commerce Building Fort Worth, Texas 76102

Penroc Oil Corporation (To 3800'-SW/4-16) P. O. Box 5970 Hobbs, New Mexico 88241

Elk Oil Company (D/R-SW/4-16) P. O. Box 310 Roswell, New Mexico 88202

M.Y. Merchant Trading Co. (to 3700 $^{\circ}$ NE/4 NW/4-21) P. 0. Box 5970 Hobbs, New Mexico 88240

MEMORANDUM

TO WHOM IT MAY CONCERN:

pursuant to Rule 303 (C) (2) (i) of the rules and regulations of the State of New Mexico for downhole commingling, the following formula should apply as to the production allocation for the new zone added to the following well:

Elk State #1 located in Unit N; 330' FSL and 2310' FWL of Section 16, T23S, R37E, Lea County, New Mexico.

Prior Production (Before Recent Workover)

°195 BOPM @ 9% Decline GOR 5700

(Initial Prod.) - (Economic Limit) (12 Mo.) -ln (1-decline) Total Production Rem.

(195-45) (12) $-1n (1-.09) = ^{\circ}19,000 B0$

195 BOPM (IP) 45 BOPM (E.L.) 9% decline

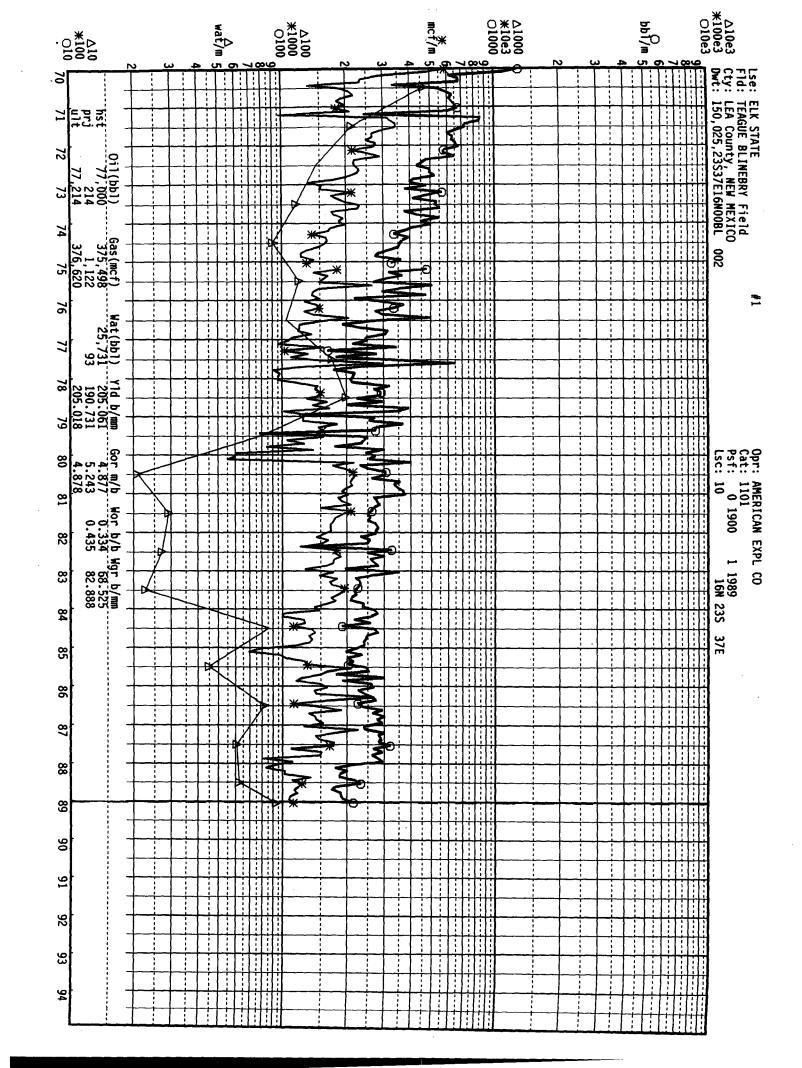
Current Production (After Workover)

°490 BOPM @ 9% Decline

(490-45) (12)-1n (1-.09) = °56,000 B0

490 BOPM (IP) 45 BOPM (EL) 9% decline

56 MBO - 19 MBO = °37 MBO



Submit 2 copies to Appropriate
District Office.
DISTRICT I
P.O. Box 1980, Hobbs, NM 88240
DISTRICT II
P.O. Drawer DD, Artesia, NM 88210
DISTRICT III

1000 Rio Brazos Rd., Aztec, NM 87410

State of New Mexico Energy, Minerals and Natural Resources Department

Form C-116 Revised 1/1/89

OIL CONSERVATION DIVISION

P.O. Box 2088 Santa Fe, New Mexico 87504-2088

GAS - OIL RATIO TEST

Instructions:

order that well can be assigned increased allowables when authorized by the Division. which well is located by more than 25 percent. Operator is encouraged to take advantage of this 25 percent tolerance in During gas-oil ratio test, each well shall be produced at a rate not exceeding the top unit allowable for the pool in

Specific gravity base will be 0.60. Gas volumes must be reported in MCF measured at a pressure base of 15.025 psia and a temperature of 60° F.

Report casing pressure in lieu of tubing pressure for any well producing through casing

(See Rule 301, Rule 1116 & appropriate pool rules.)

I hereby certify that the above information is true and complete to the best of my knowledge and belief.

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Marty B. McClanahan, Sr. Production Analyst Printed name and title

713-237-0800

Telephone No.

Date

Submit 2 copies to Appropriate DISTRICT District Office. P.O. Drawer DD, Artesia, NM 88210 P.O. Box 1980, Hobbs, NM 88240 DISTRICT III **DISTRICT II**

1000 Rio Brazos Rd., Aztec, NM 87410

Energy, Minerals and Natural Resources Department State of New Mexico

Revised 1/1/89 Form C-116

OIL CONSERVATION DIVISION

P.O. Box 2088 Santa Fe, New Mexico 87504-2088

GAS-OIL RATIO TEST

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order that well can be assigned increased allowables when authorized by the Division. Which Well is located by more than 25 percentages

Specific gravity base will be 0.60. Gas volumes must be reported in MCF measured at a pressure base of 15.025 psia and a temperature of 60° F.

Report casing pressure in lieu of tubing pressure for any well producing through casing.

(See Rule 301, Rule 1116 & appropriate pool rules.)

Signature Marty B. McClanahan, Sr. Production Analyst Printed name and title
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4/11/89

713-237-0800

Telephone No.

State of New Mexico Energy, Minerals and Natural Resources Department

Form C-105 Revised 1-1-89

OIL CONSERVATION DIVISION Some 1900, 1666sts, NN 18240 Santa Fe, New Mexico 87504-2088 S. Indicate Type of Lease STATE FEE	District Office		Energ	gy, Minerals	and Natural Re	sources Dep	artment				Revi	sed 1-1-89)
Sama Fe, New Mexico 87504-2088 S. Indicate Type of Lase STATE FEE	DISTRICT I	NM 88240	OII	L CONS			SION	WEL	L API NO	D.			
DETRICE III COMPLETION OR RECOMPLETION REPORT AND LOG T. Lease Name or Unit Agreement Name	DISTRICT II)	Santa Fe,			8			ST] FI	E 🗌
Type Completions Company Com		Aztec, NM 87	410					6. 5	State Oil &	k Gas Lease i	No.		
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Name of Operator Name of Ope	a. Type of Well:							7. 1	case Nan	ne or Unit Ag	reement l	Name	
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Unix Letter N 330 Feet From The South Line and 2310 Feet From The West Line		.cBank C	enter, I	louston,	Texas 7700	2	·····	Ur	ndesio	mated A	po		
10. Date Spudded 11. Date T.D. Reached 12. Date Compt. (Ready to Prot.) 13. Elevations (DF& RKB, RT, GR, etc.) 14. Elev. Casinghead 12/22/67 17.18 / 68 37.16 / 89 37.16		<u>N:</u> _	330 Fe	et From The	South	Line a	nd <u>23</u>	10	Feet 1	From The _	West	t	Line
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Signature Marty B. McClanahan Title Sr. Prod. Analystate 4/04/89	Signature ///	it anti-	BU		Printed Marty	v R M~C	lanaha	a T iola	Sr. Þ	rod an	a] • • - •	. 11	24/00

INSTRUCTIONS

This form is to be filed with the appropriate District Office of the Division not later than 20 days after the completion of any newly-drilled or deepened well. It shall be accompanied by one copy of all electrical and radio-activity logs run on the well and a summary of all special tests conducted, including drill stem tests. All depths reported shall be measured depths. In the case of directionally drilled wells, true vertical depths shall also be reported. For multiple completions, Items 25 through 29 shall be reported for each zone. The form is to be filed in quintuplicate except on state land, where six copies are required. See Rule 1105.

INDICATE FORMATION TOPS IN CONFORMANCE WITH GEOGRAPHICAL SECTION OF STATE

Southeastern New Mexico

Northwestern New Mexico

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T. Salt _			T. Strawn	T. Kir	tiand-Frui	tland	T. Penn. "C"
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State of New Mexico Energy, Minerals and Natural Resources Department

Form C-102 Revised 1-1-89

OIL CONSERVATION DIVISION

P.O. Box 2088

Santa Fe, New Mexico 87504-2088

DISTRICT II P.O. Drawer DD, Artesia, NM 88210

DISTRICT I P.O. Box 1980, Hobbs, NM 88240

DISTRICT III 1000 Rio Brazos Rd., Aztec, NM 87410

WELL LOCATION AND ACREAGE DEDICATION PLAT

All Distances must be from the outer boundaries of the section

South Sout	ning, or otherwise) ATOR CERTIFICATION by certify that the information
Actual Rootage Location of Well: 3300	line Dedicated Acreage: 40 Acres and royalty). Ammunitization, ATOR CERTIFICATION by certify that the information
Actual Footage Location of Well: 330 feet from the South line and 2310 feet from the South 2396.6 Abo/Drinkard Pool 1. Outline the acreage dedicated to the subject well by colored pencil or hackure 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 a straightful of the company of the company of the straightful of the south of t	line Dedicated Acreage: 40 Acres and royalty). Ammunitization, ATOR CERTIFICATION by certify that the information
Ground level Eiev. Producing Formation Abo/Drinkard Pool Undesignated Abo 1. Outline the acreage dedicated to the subject well by colored pencil or hachure 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 a subject well by colored pencil or hachure marks on the plat below. 3. If more than one lease of different ownership is dedicated to the well, have the interest of all owners been consolidated by countrization, force-pooling, etc.? Yes No If 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-poor until a non-standard unit, eliminsting such interest, has been approved by the Division. OPER I here contained heat of the printed Nam Marty E Position Sr. Pro Company America Date	line Dedicated Acreage: 40 Acres and royalty). Ammunitization, ATOR CERTIFICATION by certify that the information
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	1989
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	was plotted from field notes of cys made by me or under my
	and that the same is true and
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belief.	
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Signature & Professional	Surveyor Surveyor
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GARREY CARRUTHERS
GOVERNOR

/ed

STATE OF NEW MEXICO

ENERGY AND MINERALS DEPARTMENT

OIL CONSERVATION DIVISION HOBBS DISTRICT OFFICE

5-15-89

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 X NSL NSP SWD WFX	MAY 1 9 1939
PMX	OIL CONSERVATION DIV. SANYA FE
Gentlemen:	
I have examined the application of the application	tion for the: Co. Ell State #1-N 16-23-37 Lease & Well No. Unit S-T-R
and my recommendations are	as follows:
Yours very truly,	
Jerry Sexton Supervisor, District 1	·.