KELLAHIN, KELLAHIN AND AUBREY

Attorneys at Law

El Patio - 117 North Guadalupe

Post Office Box 2265

Santa Fe. New Mexico 87504-2265

Telephone 982-4285 Area Code 505

W. Thomas Kellahin Karen Aubrey

Jason Kellahin

Of Counsel

March 14, 1989

Mr. William J. LeMay Director Oil Conservation Division P.O. Box 2088 Santa Fe, New Mexico 87501

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Re: Administrative Approval Amendment of DHC-138 Stephens Estate No. 1 S24, T21S R37E Lea County, New Mexico

Dear Mr. LeMay

This letter is a request by Bison Petroleum Corporation, pursuant to New Mexico Oil Commission Rule 303(C) for permission to amend Administrative Order DHC-138 to add the Blinebry zone to that order and to downhole commingle production from the Blinebry, Abo and Drinkard zones in the subject well. Permission to simultaneously dedicate the W/2SW/4 to the Stephens Estate Nos. 1 and 2 is also requested.

The Stephens Estate No. 1 well was initially completed in the Abo in 1952, and was dually completed in the Abo and Blinebry in 1958. In 1964 the Abo was temporarily abandoned and the well was dualled in the Blinebry and Drinkard. In September, 1973 the Blinebry was reclassified as gas. In January, 1974 the Blinebry was squeezed off and the well was produced as commingled Abo-Drinkard. Bison Petroleum purchased this lease from Mobil on July 1, 1987.

In support of this application, we enclose:

- 1. List of offset operators
- 2. Data sheet which provides the data required by Rule 303(C).
- Bottomhole pressure calculation
- 4. C-116's for each zone
- 5. Plat of the area with the spacing unit assigned to this well colored in yellow, and the well marked in red.

MAR 1 2 1884 OIL CONSERVATION DIVISION SANTA FE

Mr. William J. LeMay March 14, 1989 Page 2

- 6. Production decline curve for the Blinebry from 1968 to 1974 and for the Drinkard and Wantz Abo from 1980 to 1989.
- 7. Wellbore schematic and completion history.
- 8. Copy of Administrative Order NSP-940 granting approval of the non-standard unit.
- 9. Copy of letter from Jerry Sexton, Supervisor, District 1 dated March 8, 1989.
- 10. Form C-103 dated March 6, 1989.

By copy of this letter and enclosures, pursuant to New Mexico Oil Conservation Commission Rule 1207(a)(6), we are notifying all offset operators of Bison Petroleum's request, and advising them that this request may be granted in within twenty days in the absence of valid objection.

Singerely,

Karen Aubrev

KA/rs Encl.

cc: Bruce O. Barthel,
Bison Petroleum
Acoma Oil Corporation
Chevron USA, Inc.
John Hendrix Corporation
Lynx Petroleum
Shell Western E&P Inc.

BISON PETROLEUM CORPORATION

OFFSET OPERATORS

- 1. Acoma Oil Corporation Suite 1200 210 W. 6th Street Fort Worth, TX 76102
- 2. Chevron USA Inc. P.O. Box 670 Hobbs, NM 88240
- John Hendrix Corporation
 223 W. Wall
 525 Midland Tower Building
 Midland, TX 79701
- 4. Lynx Petroleum
 P.O. Box 1666
 Hobbs, NM 88241
- 5. Shell Western E&P Inc. P.O. Box 576 Houston, TX 77001

BISON PETROLEUM CORPORATION

BISON PETROLEUM CORPORATION DOWNHOLE COMMINGLING APPLICATION

STEPHENS ESTATE WELL NO. 1 DATA SHEET

A. OPERATOR:

Bison Petroleum Corporation 5809 S. Western Suite 200 Amarillo, Texas 79110-3607

B. LEASE, WELL AND LOCATION:

Stephens Estate Well No. 1 1980' FSL and 660' FWL Section 24, T21S-R37E Lea County, New Mexico

C. PRODUCING ZONES:

Blinebry Oil & Gas, Drinkard Oil & Gas, Wantz Abo Oil

D. PRODUCTIVITY TEST:

Blinebry gas was squeezed in 1973 after testing at 4 BOPD, 77 MCF/D; 0 BWPD.

Drinkard and Abo produced commingled December 1988 at 3 BOPD, 18.7 Mcf/D; 0.2 BWPD.

E. PRODUCTION DECLINE CURVE:

Attached

F. ESTIMATED BOTTOM-HOLE PRESSURE:

The Drinkard and Abo have been produced by pump for 15 years and their bottom-hole pressures are less than 100 psi.

The measured Blinebry pressure in the offset Bison Stephens Estate No. 2 in March 1988 was 48 psi. Essentially, all three zones are in the stripper stage of depletion and very near the same low pressure.

BISON PETROLEUM CORPORATION

G. FLUID CHARACTERISTICS:

The Blinebry and Drinkard were surface commingled for nine years and the Drinkard and Abo have been downhole commingled for 15 years, all without any apparent incompatibility. Commingling is fairly common in this area for all three zones with no known problems.

H. COMPUTATION OF COMMINGLED PRODUCTION:

None of the three zones can be economically produced alone and even all three zones together will only result in stripper type production.

I. GAS & OIL ALLOCATIONS:

	BLINEBRY	DRINKARD	ABO
Gas	70%	1%	29%
0i1	10%	23%	67%

Future declines are expected to be similar and no changes in percentages will be required.

J. OWNERSHIP:

All interests are identical in all three zones.

K. FUTURE SECONDARY RECOVERY OPERATIONS:

This well is near the productive limits of all three zones. It was dropped from consideration before the Northeast Drinkard Unit, offsetting to the West, was formed. The production of this well will not jeopardize any secondary operations.

L. NOTIFICATION:

Served by copy of Bison's request letter to the Director, Oil Conservation Division.

STEPHENS ESTATE NO. 2 * BHP CALCULATION

 $^{\mathrm{BHP}} = ^{\mathrm{P}}_{\mathrm{Gas}} + ^{\mathrm{P}}_{\mathrm{Liq}}$ but with no liquid the latter term drops out.

0.01875 x Sq x 0 S avg x T avg

Pressure of gas column = P_{WH}

(From Craft & Hawkins)

Where: P_{WH} = Static wellhead pressure

Sg = Gas Gravity

D = Mid-perf distance

 $S_{avg} = Average gas deviation factor$

T = Average temperature in degrees Rankine

BLINEBRY OIL & GAS POOL CALCULATION

BHP = 42 e $\frac{(0.01875 \times 0.65 \times 5728)}{(0.99 \times 555)}$

47.7 or 48 psi

DRINKARD OIL & GAS POOL CALCULATION

 $(0.01875 \times 0.65 \times 6546)$ BHP = 38 e

43.9 or 44 psi

*NOTE: These calculations are from Well No. 2 which is a direct south offset to the subject Well No. 1. There are no other calculations available.

bmit 2 copies to Appropriate
strict Office.
STRICT1

D. Box 1980, Hobbs, NM 88240
STRICT1I
D. Drawer DD, Artesia, NM 88210
STRICT1II

State of New Mexico
Energy, Minerals and Natural Resources Department

Revised 1/1/89 Form C-116

OIL CONSERVATION DIVISION

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

GAS - OIL RATIO TEST

00 Rio Brazos Rd., Aztec, NM 87410

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SANTA FE, NEW MEXICO 07501 F. O. BOX 1911

ENERGY NO MINERALS DEPARTMENT STATE OF NEW MEXICO

form C-116 Revised 10-1-78

GAS-OIL RATIO TESTS

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Rule 101 and appropriate pool rules. Hell priginal and one capy of this report to the district office of the New Mexico Oll Conservation Division in accordance with

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Administrative Secretar 3-7-88

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OIL CONSCRAY UPD DIAISION

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ENERGY NO MINERALS DEPARTMENT STATE OF NEW MEXICO

SANTA FE, NEW MEXICO 87501

Revised. 10-1-78 Form C-116

GAS-OIL RATIO TESTS

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Will be 0.60. Gas volumes must be reperted in MCF measured at a pressure base of 15,025 pela and a temperature of 40° F. Specific gravity base

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

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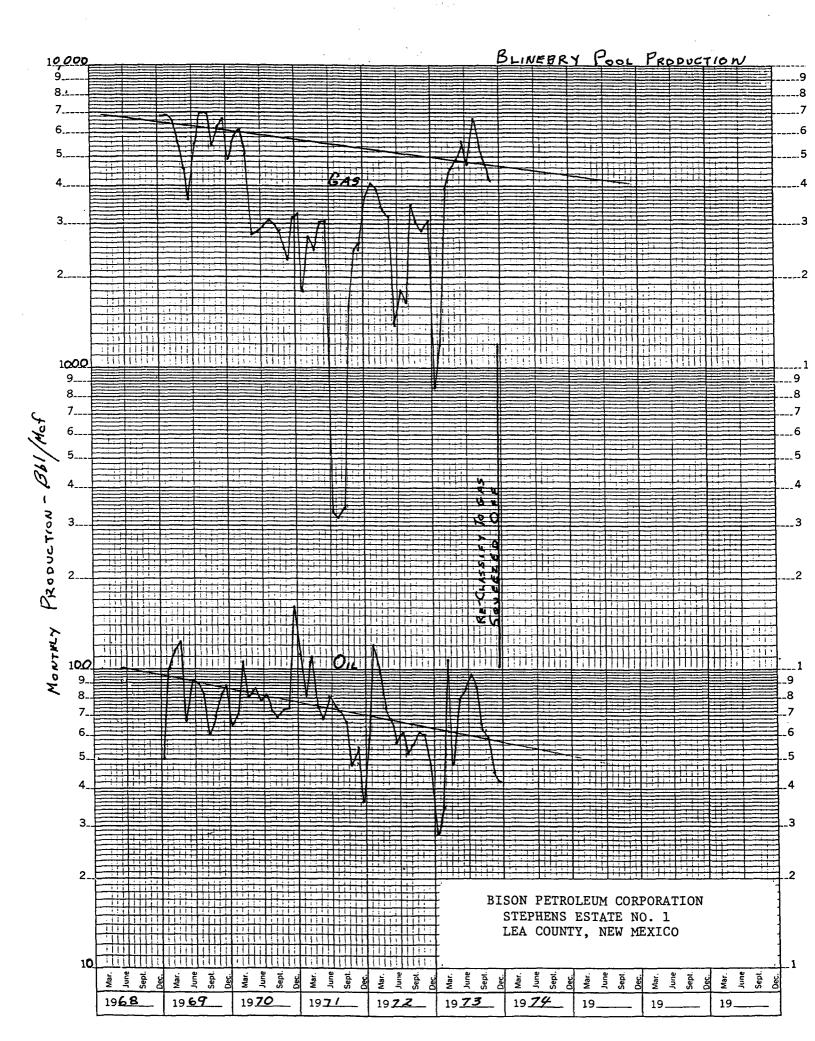
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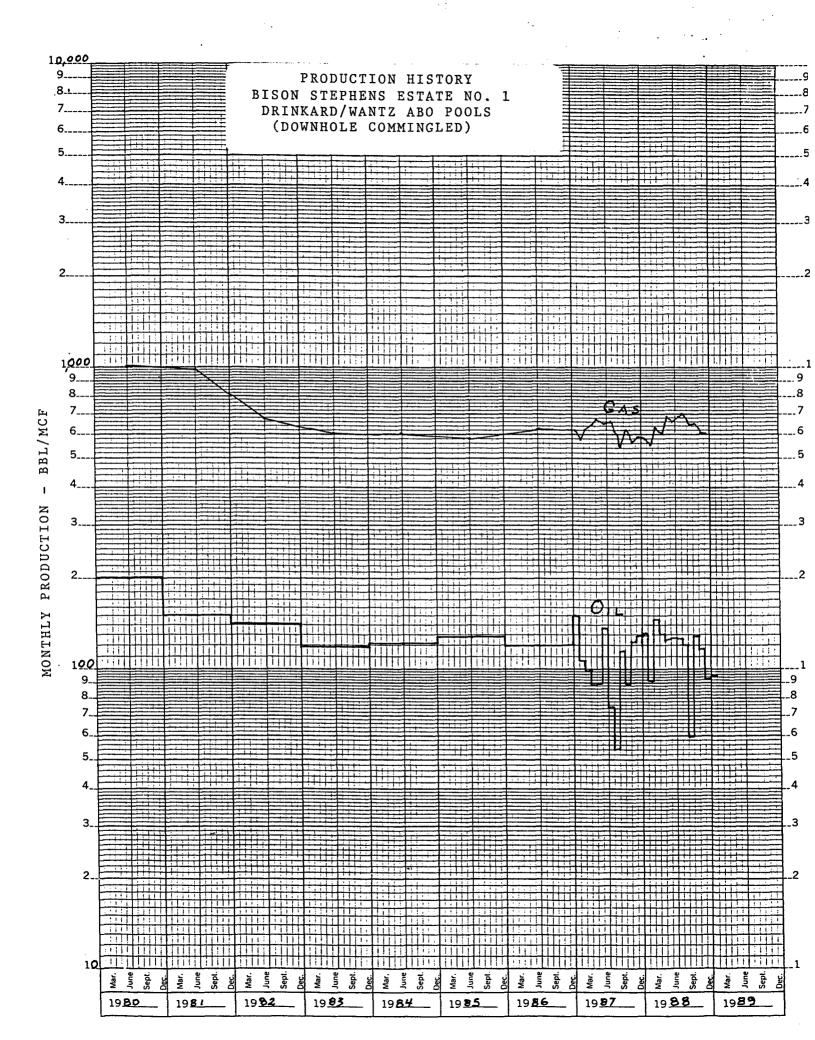
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COMPLETION HISTORY

STEPHENS NO. 1 LEA COUNTY, NEW MEXICO

nitial Abo	1952	Initially perf 7168-98'. Treated tite. Set CIBP 7154' and cmt to 7149' PBTD. Perf'd 7035-69 three different times. Treated several times a total of 38,000 gal acid in several treatments. IPP 123 BO.
Stim Abo	Jan 1958	Perf 7085-91' and 7102'-10'. Tried to acidize. Commingle. Then acidize 7035'-7110' OA w/10,000 gal w/55 ball sealers. Before 14 BOPD 14 MCF/D 0 BWPD Cum 42 MB After Pot. 51 BO 27 BW (load?)
Make Dual	Nov 1958	Made dual Abo-Blinebry by perf 5684-5897'. 4 SPF. Acidize Blinebry w/9000 gal. SOF 10,000 x 5750. Set Baker Model D @ 7000'. Abo + 42 BOPD GOR 930 Blinebry 31 BWO 1 BLW + 335 Mcf/D GOR 10,850.
okr leak	May 1960	They must have had a pkr leak and could not kill either zone. They had to pump jellite and leather to control zones. Abo pumped 17 BNO. Blinebry flowed + 22 BNO.
TA Abo Make Dual Blinebry- Drinkard	Apr 1964 :	Abo produced 13 BOPD. Cum 75 MB. Blinebry produced 9 BOPD, Cum 66 MB. To TA Abo and make dual Blinebry-Drinkard. Run DR plug in pkr @ 7066' w/l sx sd on top. Perf Drinkard 6514-6644' SOF 30 x 90. Drinkard flowing 251 BNO Gor 976 Blinebry flowing 20 BO +
Reclassify Blinebry	Sep 1973	Blinebry in St. #1 & 2 both reclassified to gas 9-73.
Sqz Blinebry Make comm. dual Abo-Drink	Jan 1974	To plug Blinebry and make commingled Abo- Drinkard. Squeeze Blinebry. Drilled out fish, pkr and CIBP (7154'). CO to 7325' in 12 days. Abo - perforated 6919-7190 and acidize w/2500 gal. Drinkard Perforated 6677 - 6733' then acidize 6514-6733' w/ 500 gal. TA @ 6855' w/MA @ 7236'. Pot: Pump 33 BNO 56 BLW.

NSERVATION COMM

STATE OF NEW MEXICO P. O. BOX 2088 - SANTA FE 87501

March 13, 1974

3-15 I. R. TRUJILLO CHAIRMAN

> LAND COMMISSIONER ALEX J. ARMIJO MEMBER

STATE GEOLOGIST A. L. PORTER, JR. SECRETARY - DIRECTOR

Mobil Oil Corporation P. O. Box 633 Midland, Texas 79701

Attention: L. A. Davis

T	RECEIVED OPERS. ENGINEERING
	MAR 1 5 1974
	OE PROR CIRC. XU'S FE FILE

Administrative Order NSP-940

· Gentlemen:

Reference is made to your application for an 80-acre nonstandard gas proration unit in the Blinebry Gas Pool consisting of the following acreage:

> LEA COUNTY, NEW MEXICO TOWNSHIP 21 SOUTH, RANGE 37 EAST, NMPM Section 24: W/2 SW/4

It is understood that this unit is to be dedicated to your Stephens Estate Well No. 2 located 660 feet from the South line ~ and our rest from the west line of said Section 24.

By authority granted me under the provisions of Rule 104 D II, you are hereby authorized to operate the abovedescribed acreage as a non-standard gas proration unit.

Secretary-Director A. L. PORTER, Jr.

ALP/JEK/dr

Oil Conservation Commission - Hobbs Oil & Gas Engineering Committee - Hobbs Proration Department, CCC - Santa Fe

Diet: a. J. alcett R. H. Cummin 18.0 Jucker Proestion

Submit to Appropriate District Office State Lease - 4 copies Fee Lease - 3 copies

State of New Mexico Energy, Minerals and Natural Resources Department

Form C-102 Revised 1-1-89

DISTRICT I P.O. Box 1980, Hobbs, NM 88240 OIL CONSERVATION DIVISION
P.O. Box 2088
Santa Fe, New Mexico 87504-2088

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

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

Operator				Lease				Well No.
Bison Petr	oleum Cor	noration		Stenhen	s Estate			1 & 2
Unit Letter	Section	Township		Range	<u> </u>		County	1 1 4 2
L & M	24	218		37	E	NMPM	Lea	
Actual Footage Loc	ation of Well:	South		660	1		West	
No. 2 66	Ofeet from the	South	line and	660		feet from t	he West	line
Ground level Elex- 14361)F Prod	ucing Formation		Pool				Dedicated Acreage:
#2 3415T)F B.	linebry	· · · · · · · · · · · · · · · · · · ·	Bli	nebry Ga	s		80 Acres
1. Outlin	e the acreage dedi	cated to the subject well	by colored pen	cil or hachure m	arks on the pla	t below.		
2. If mor	re than one lease is	s dedicated to the well, o	outline each and	identify the own	aership thereof	(both as to workin	g interest and	royalty).
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State of New Mexico

DATE

Submit 3 Copies to Appropriate	Energy, Minerals and Natural Re	sources Department		Form C-103 Revised 1-1-89
DISTRICT I P.O. Box 1980, Hobbs, NM 88240	OIL CONSERVATIO P.O. Box 208		WELL API NO.	
DISTRICT II P.O. Drawer DD, Artesia, NM 88210	Santa Fe, New Mexico	87504-2088	5. Indicate Type o	
DISTRICT III 1000 Rio Brazos Rd., Aztec, NM 87410		•	6. State Oil & Gas	· · · · · · · · · · · · · · · · · · ·
(DO NOT USE THIS FORM FOR PI DIFFERENT RESI	TICES AND REPORTS ON WEL ROPOSALS TO DRILL OR TO DEEPEN ERVOIR. USE "APPLICATION FOR PER C-101) FOR SUCH PROPOSALS.)	OR PLUG BACK TO A	7. Lease Name or	Unit Agreement Name
1. Type of Well: OIL GAS WELL XX WELL	OTHER		Stephens E	Estate
2. Name of Operator			8. Well No.	
Bison Petroleum Corpo 3. Address of Operator		, -	9. Pool name or V	Vildcat
5809 S. Western Suit	te 200 Amarillo, TX 79	110-3607	Blinebry	
Unit LetterL : 19	80 Feet From The FSL	Line and 660	Feet From	TheLine
Section 24	Township 21S Ra	onge 37E DF, RKB, RT, GR, etc.)	NMPM Lea	County
(/////////////////////////////////////	k Appropriate Box to Indicate I	Nature of Notice P	enort or Other	<u> </u>
	NTENTION TO:		· -	REPORT OF:
PERFORM REMEDIAL WORK	PLUG AND ABANDON	REMEDIAL WORK		ALTERING CASING
TEMPORARILY ABANDON	CHANGE PLANS	COMMENCE DRILLING	GOPNS.	PLUG AND ABANDONMENT
PULL OR ALTER CASING		CASING TEST AND CE	EMENT JOB	
OTHER: Re-Completion	🗓	OTHER:		·
12. Describe Proposed or Completed Opwork) SEE RULE 1103.	perations (Clearly state all pertinent details, a	nd give pertinent dates, inclu	ding estimated date of	of starting any proposed
 Perforate Bline Kill well and r 	Abo Zones. bridge plug above Drink bry 5684-5897 OA and bre ecover bridge plug. s and pump to bottom.		d.	
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I hereby certify that the information above is	s true and complete to the best of my knowledge an	d belief.		•
SIGNATURE 33 Mei	Dearhel 1	me President		3-6-89
TYPEORPRINT NAME Bruce O.	Barthel	•		806/ . Telephone no. 358 <u>-0181</u>

(This space for State Use) .

APPROVED BY

STATE OF NEW MEXICO



GOVERNOR

ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION HOBBS DISTRICT OFFICE

March 8, 1989

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

Bison Petroleum Corporation 5809 South Western, Suite 200 Amarillo, TX 79110-3607

Attn: Mr. Bruce O. Barthel

Re: Stephens Estate #1-L

Section 24, T21S, R37E

Gentlemen:

Your C-103 requesting approval to reopen the Blinebry zone and downhole commingle with the Abo and Drinkard zones in the above-referenced well has been received.

It appears since you already have approval for an 80-acre non-standard gas proration unit authorized by NSP-940 for your #2 well, all that will be necessary is that you obtain approval to simultaneously dedicate this acreage to well #1 and #2 along with authorization to downhole commingle Blinebry, Drinkard, and Abo production in well #1.

As soon as approval to simultaneously dedicate this 80 acre proration unit to #1 and #2 and to downhole commingle the three zones in well #1 has been obtained from our Santa Fe office we will approve your intention to do the work.

The above proposal would require that you file a revised acreage dedication plat for the Blinebry for both #1 and #2 showing both wells on the 80-acre proration unit.

If you have further questions concerning this, please contact Evelyn Downs at (505) 393-6161.

Very truly yours,

OIL CONSERVATION DIVISION

Jerry Sexton

Supervisor, District I