KELLAHIN, KELLAHIN AND AUBREY

W. Thomas Kellahin Karen Aubrey

Jason Kellahin Of Counsel Attorneys at Law El Patio - 117 North Guadalupe Post Office Box 2265 Santa Fe, New Mexico 87504-2265

Telephone 982-4285 Area Code 505

March 14, 1989



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

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).

3. 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.

KELLAHIN, KELLAHIN and AUBREY

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, eme. Karen Aubrey

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

- 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. <u>LEASE, WELL AND LOCATION</u>: 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%
Oil	10%	23%	67%

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

J. <u>OWNERSHIP</u>:

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

 $BHP = P_{Gas} + P_{Liq}$ but with no liquid the latter term drops out.

Pressure of gas column = P_{VH} e (From Craft & Hawkins)

Where: P_{WH} = Static wellhead pressure

Sg = Gas Gravity

D = Mid-perf distance

S = Average gas deviation factor

T = Average temperature in degrees Rankine

BLINEBRY OIL & GAS POOL CALCULATION

 $\frac{(0.01875 \times 0.65 \times 5728)}{(0.99 \times 555)} = 47.7 \text{ or } 48 \text{ psi}$

DRINKARD OIL & GAS POOL CALCULATION

 $\frac{(0.01875 \times 0.65 \times 6546)}{(0.99 \times 558} = \frac{43.9 \text{ or } 44 \text{ psi}}{43.9 \text{ or } 44 \text{ psi}}$

*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. Strict Office. STRICT I D. Box 1980, Hobbs, NM 88240 STRICT II D. Drawer DD, Artesia, NM 88210 STRICT III STRICT III 20 Rio Brazos Rd., Aztec, NM 87410 Energy, Minerals and Natural Resources Department

OIL CONSERVATION DIVISION

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

GAS - OIL RATIO TEST

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Form C-116 Revised 1/1/89

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Gas volumes must be reported in NCP measured at a pressure base of 15,035 peis and a temperature of 60° F. Specific gravity base will be 0.60.

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

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Holl original and ane copy of this report is the district office of the New Mexico Oli Conservation Division in accordance with Rule 303 and appropriate pool rules.

(Stynaluff) Administrative Secretary (Tile) 3-7-88

OIL CONSERVATION DIVISION F. O. DOX 1911 SANTA FE, NEW MEXICO 07501

STATE OF NEW MEXICO ENERGY NO MINERALS DEPARTMENT

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Form C-116 Revised.10-1-78

GAS-OIL RATIO TESTS

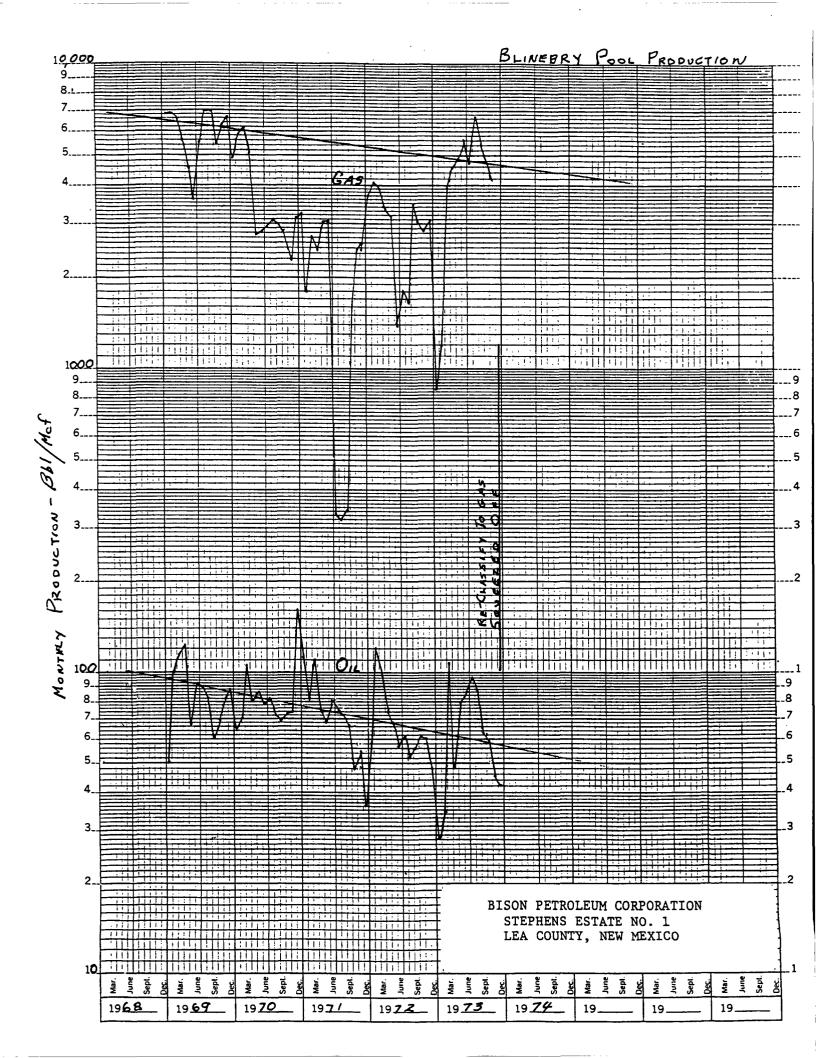
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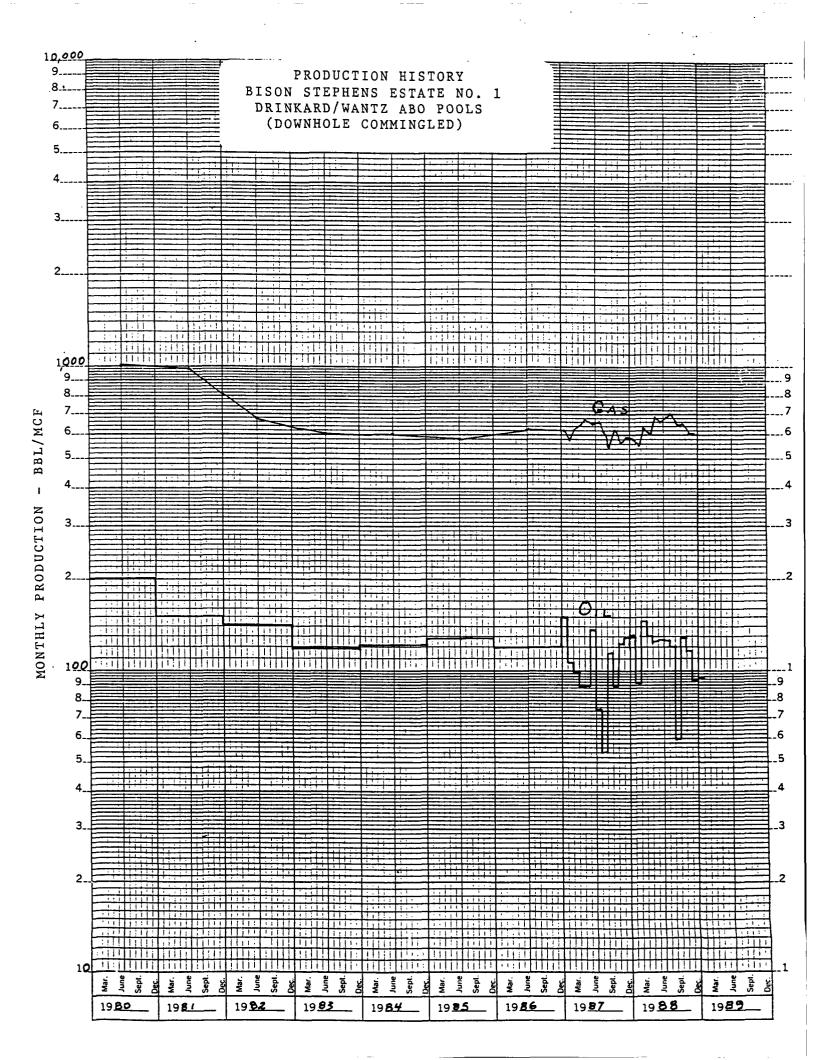
Report easing pressure in lieu of tubing pressure for any well producing through casing.

Hell original and one copy of this report to the district office of the New Hexico Oli Conservation Division in accordance with Rule 301 and appropriate pool releas

The (Signature) Administrative Secretary (Tile) 8-0-88

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COMPLETION HISTORY

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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.
<u>Stim Abo</u>	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?)
<u>lake Dual</u> bo-Blinebry	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 <u>+</u> 42 BOPD GOR 930 Blinebry 31 BWO 1 BLW <u>+</u> 335 Mcf/D GOR 10,850.
<u>Pkr leak</u>	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 <u>+</u> 22 BNO.
<u>FA Abo</u> Make Dual 3linebry- Drinkard	Apr 1964	Abo produced 13 BOPD. Cum 75 MB. Blinebry produced 9 BOPD, Cum 66 MB. To <u>TA Abo</u> and make dual <u>Blinebry-Drinkard</u> . 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 <u>+</u>
Reclassify Blinebry	Sep 1973	Blinebry in St. #1 & 2 both reclassified to gas 9-73.
<u>Sqz Blinebry</u> 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.

BOB/11 9-3-87

OIL ONSERVATION COMN SION

3-15-7" I. R. TRUJILLO CHAIRMAN

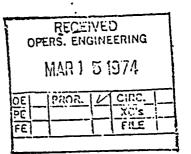
in

LAND COMMISSIONER ALEX J. ARMIJO MEMBER

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

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

March 13, 1974



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

Attention: L. A. Davis

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 obv feet 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.

truly yours, A. L. PORTER, Jr. Secretary-Director

ALP/JEK/dr

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

Duct: a. J. alcett R. H. Cummin 10-0 Jucker Protection

MAR - 9 1989

STATE OF NEW MEXICO ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT OIL CONSERVATION DIVISION

HOBBS DISTRICT OFFICE

March 8, 1989

GARREY CARRUTHERS

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 abovereferenced 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

POST OFFICE BOX 1980 HOBBS, NEW MEXICO 88241-1980 (505) 393-6161 Submit to Appropriate District Office State Lease - 4 copies Fee Lease - 3 copies

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-102 Revised 1-1-89

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OIL CONSERVATION DIVISION P.O. Box 2088

Santa Fe, New Mexico 87504-2088

WELL	LOCATION	AND	ACREAGE	DEDICATION PL	AT

All Distances must be from the outer boundaries of the section

perator		· · · · · · · · · · · · · · · · · · ·		Lease				Well No.	
Bison Petr	oleum Cou	roration		Stophor	ns Estai	t 0			
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1. Outline	the acreage dec	licated to the subject w	ell by colored pen	cil or hachure n	narks on the	plat below.		_	
2. If more	than one lease	is dedicated to the well	, outline each and	identify the ow	nenship there	of (both as to work	ing interest and	royalty).	
3. If more	than one lease	of different ownership	is dedicated to the	well, have the	interest of all	i owners been conse	lidated by com	munitization,	
unitizat	ion, force-pooli			"					
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Submit 3 Copies to Appropriate District Office	State of New Me Energy, Minerals and Natural Re		Form C-103 Revised 1-1-89
DISTRICT I P.O. Box 1980, Hobbs, NM 88240	OIL CONSERVATIO		WELL API NO.
DISTRICT II P.O. Drawer DD, Artesia, NM 88210	Santa Fe, New Mexico	87504-2088	5. Indicate Type of Lease STATE FEE XX
DISTRICT III 100 Rio Brazos Rd., Aztec, NM 87410		,	6. State Oil & Gas Lease No.
(DO NOT USE THIS FORM FOR PR DIFFERENT RESE (FORM C	FICES AND REPORTS ON WEL ROPOSALS TO DRILL OR TO DEEPEN RVOIR. USE "APPLICATION FOR PEI C-101) FOR SUCH PROPOSALS.)	OR PLUG BACK TO A	7. Lease Name or Unit Agreement Name
1. Type of Well: OIL WELL XX WELL	OTHER		Stephens Estate
2. Name of Operator Bison Petroleum Corpo	ration		& Well No. 1
3. Address of Operator		<u></u>	9. Pool name or Wildcat
5809 S. Western Suit	e 200 Amarillo, TX 79	110-3607	Blinebry
Unit Letter: 198	0 Feet From The FSL	Line and660	D Feet From The Line
Section 24	Township 21S Ra		NMPM Lea County
	3426		
	Appropriate Box to Indicate		
NOTICE OF IN	ITENTION TO:	SUB	SEQUENT REPORT OF:
		REMEDIAL WORK	
	CHANGE PLANS		
PULL OR ALTER CASING		CASING TEST AND CE	
OTHER: <u>Re-Completion</u>		OTHER:	L
12. Describe Proposed or Completed Ope work) SEE RULE 1103.	crations (Clearly state all pertinent details, a	nd give pertinent dates, inclu	iding estimated date of starting any proposed
 Perforate Blinet Kill well and response 	Abo Zones. bridge plug above Drink bry 5684-5897 OA and bre ecover bridge plug. s and pump to bottom.		d.
Y Louis and the the time of a share in	true and complete to the best of any knowledge an	d belief.	
I RETENT CETTLY LINE INCOMPANY AND A REPORT OF	\sim	President	3-6-89
SKINATURE	12 Sarther T	mle	DATE
3			806/
SKINATURE		mte	
SKINATURE	Barthel	пце	806/