



Cross Timbers Operating Company

9.26.95

OIL CONSERVATION DIVISION
RECEIVED

1995 SEP 7 AM 8 52

August 30, 1995

William J. Le May
Chairman and State Petroleum Engineer
New Mexico Oil Conservation Division
P. O. Box 2088
Santa Fe, New Mexico 87501

Dear Mr. Le May:

Cross Timbers Operating Company respectfully requests administrative approval under the provision of Rule 303-A to downhole commingle production from the Drinkard and Hare Simpson Pools within R. L. Brunson Well Number 5. The well is currently pump testing the Drinkard Pool. Downhole commingling the two pools will result in fewer mechanical problems, which translates to lower operating expense. This reduction in operating cost will prolong the life of the well, therefore increasing the reserves to be produced.

A listing of data required for a Rule 303-A is attached. This is a private lease with common interest in both pools. If additional information is necessary, please contact the undersigned at 915-682-8873.

Sincerely,

CROSS TIMBERS OPERATING COMPANY

C. M. Bloodworth, P.E.
Operations Engineer

CMB/bu
Enclosures

cc: CMB File
Well File

REQUEST FOR EXCEPTION TO RULE 303-A

**R. L. BRUNSON NO 5
DRINKARD FIELD**

- A) Cross Timbers Operating Co.
P. O. Box 52070
Midland, Texas 79710
- B) R. L. Brunson No 5
Unit J, 1980' FSL & 1980' FEL
Section 4, T22S, R37E
Lea County, New Mexico
Commingled Zones: Drinkard
Hare Simpson
- C) A plat of the area is attached showing the lease and offset operators. Also attached is a C-102 for each formation.
- D) Form C-116 for each of the formations is attached. The allocated production for each pool will be based upon the current and historical production declines and latest GOR tests.
- E) Production curve for the Drinkard and Hare Simpson are attached.
- F) Estimated bottomhole pressure for each zone:
- | | |
|--------------|----------|
| Drinkard | 620 psia |
| Hare Simpson | 604 psia |
- G) Production from the Drinkard and Hare Simpson Pools have been surface commingled with no incompatibility problems.
- H) If the downhole commingling is approved, additional reserves will be recovered from the Drinkard while maximizing recoveries from the Hare Simpson.

REQUEST FOR EXCEPTION TO RULE 303-A

**R. L. BRUNSON NO 5
DRINKARD FIELD
(cont'd)**

I) GOR Test:

<u>Formation</u>	<u>BOPD</u>	<u>BWPD</u>	<u>MCFPD</u>
Drinkard	3	86	19
Hare Simpson	<u>6</u>	<u>2</u>	<u>21</u>
Total	9	88	40

Predicted:

<u>Formation</u>	<u>BOPD</u>	<u>BWPD</u>	<u>MCFPD</u>
Drinkard	3	86	19
Hare Simpson	<u>6</u>	<u>2</u>	<u>21</u>
Total	9	88	40

Proposed Allocation Percentages:

<u>Formation</u>	<u>BOPD</u>	<u>BWPD</u>	<u>MCFPD</u>
Drinkard	33%	98%	48%
Hare Simpson	<u>67%</u>	<u>2%</u>	<u>52%</u>
Total	100%	100%	100%

- J) Ownership of the two pools to be commingled are in common and correlative rights will not be violated.**
- K) By copy of this letter all offset operators are to be notified.**

District I
PO Box 1908, Hobbs, NM 88241-1908
District II
PO Drawer DD, Artesia, NM 88211-0719
District III
1000 Rio Brazos Rd., Aztec, NM 87410
District IV
PO Box 2088, Santa Fe, NM 87504-2088

State of New Mexico
Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION
PO Box 2088
Santa Fe, NM 87504-2088

Form C-102
Revised February 10, 1994
Instructions on back
Submit to Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 Copies

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-025-10032		Pool Code 29830	Pool Name Hare Simpson
Property Code 003343	Property Name R. L. Brunson		Well Number 5
OGRID No. 005380	Operator Name CROSS TIMBERS OPERATING COMPANY		Elevation 3,439'

¹⁰ Surface Location

UL or lot no.	Section	Township	Range	Lot Ida	Feet from the	North/South line	Feet from the	East/West line	County
J	4	22S	37E		1,980	South	1,980	East	Lea

¹¹ Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Ida	Feet from the	North/South line	Feet from the	East/West line	County

¹² Dedicate 1 Acres 40	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.
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NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED
OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

¹⁶ 	¹⁷ OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief Signature C. M. Bloodworth, P. E. Printed Name Operations Engineer Title 8-24-95 Date	
	¹⁸ SURVEYOR CERTIFICATION I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief. Date of Survey Signature and Seal of Professional Surveyer:	
	Certificate Number	

District I
PO Box 1900, Hobbs, NM 88241-1900
District II
PO Drawer DD, Artesia, NM 88211-0719
District III
1000 Rio Brazos Rd., Aztec, NM 87410
District IV
PO Box 2088, Santa Fe, NM 87504-2088

State of New Mexico
Energy, Minerals & Natural Resources Department

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Santa Fe, NM 87504-2088

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☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-025-10032	Pool Code 19190	Pool Name Drinkard
Property Code 003343	Property Name R. L. Brunson	Well Number 5
OGRID No. 005380	Operator Name CROSS TIMBERS OEPATING COMPANY	Elevation 3,439' GR

¹⁰ Surface Location

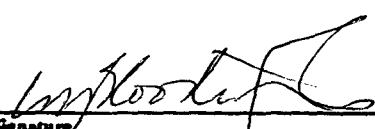
UL or lot no. J	Section 4	Township 22S	Range 37E	Lot Idn	Feet from the 1,980	North/South line South	Feet from the 1,980	East/West line East	County Lea
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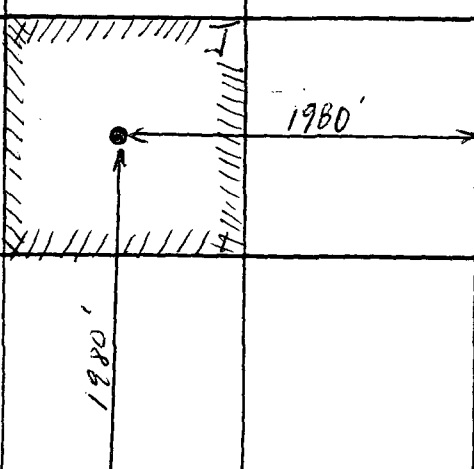
¹¹ Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
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¹² Dedication Acres 40	¹³ Joint or Infill N	¹⁴ Consolidation Code	¹⁵ Order No. N/A
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Submit 2 copies to appropriate
District Office.

DISTRICT I

P.O. Box 1980, Hobbs, NM 88240

DISTRICT II

P.O. Drawer 110, 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

Operator CROSS TIMBERS OPERATING COMPANY		Pool Hare Simpson		County Lea										
Address P. O. Box 52070 Midland, Texas 79710-2070		TYPE OF TEST - (X)		Scheduled ☒ XX Completion ☐ Special ☐										
LEASE NAME	WELL NO.	LOCATION			DATE OF TEST	C/O SIZE	TBD. PRESS.	DAILY ALLOW- ABLE	LENGTH OF TEST HOURS	PROD. DURING TEST			GAS - OIL RATIO CU. FT./OIL	
		U	S	T						WATER DOLS.	GRAV. OIL	OIL DOLS.		GAS MCF.
R. L. Brunson	5	J	04	22S 37E	4/12/94	P --	20	M	24	86	39.5	3	19	6333

Instructions:

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

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

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.

Ray F. Martin
Signature

Ray F. Martin
Printed name and title

5/9/94
Date

(915) 682-8873
Telephone No.

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

Operator CROSS TIMBERS OPERATING COMPANY		Pool Drinkard		County Lea										
Address P. O. Box 52070 Midland, Texas 79710-2070		TYPE OF TEST - (X)		Completion ☐ Scheduled ☐ * Special ☒										
LEASE NAME	WELL NO.	LOCATION			DATE OF TEST	CHOKE SIZE	TBG. PRESS.	DAILY ALLOW-ABLE	LENGTH OF TEST HOURS	PROD. DURING TEST			GAS - OIL RATIO CU FT/BBLS.	
		U	S	T						R	WATER BBLs.	GRAV. OIL		OIL BBLs.
R. L. Brunson	5	J	4	22S	37E	4/4/95	NA	NA	24	2	39.2	6	21	3,500

*NOTE: Testing Drinkard prior to obtaining downhole commingling permit.

Instructions:

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

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Signature

C. M. Bloodworth, P.E. Operations Engineer
Printed name and title

8-24-95

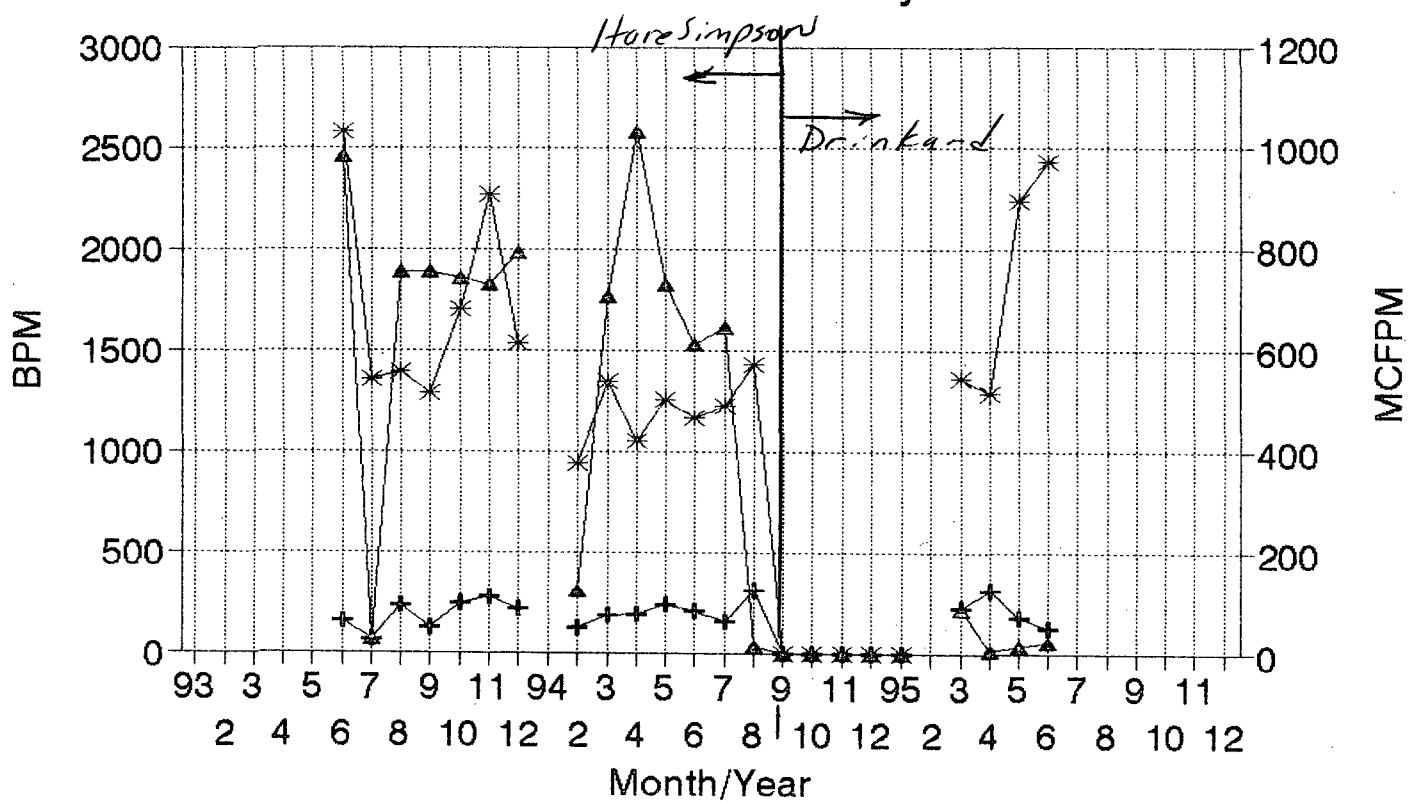
(915) 682-8873

Date

Telephone No.

Brunson No. 5

Production History



**R. L. BRUNSON NO 5
DOWNHOLE COMMINGLE APPLICATION**

OFFSET OPERATORS

Amerada Hess
Drawer D
Monument, New Mexico 88265

Certified Mail Number: Z 740 697 777

Oxy USA, Inc.
P. O. Box 50250
Midland, Texas 79710

Certified Mail Number: Z 740 697 778

Texaco Exploration & Production, Inc.
P. O. Box 730
Hobbs, New Mexico 88241

Certified Mail Number: Z 740 697 779

J. H. Hendrix
223 W. Wall, Suite 525
Midland, Texas 79701

Certified Mail Number: Z 740 697 780

Arch Petroleum
10 Desta Drive, Suite 420E
Midland, Texas 79705

Certified Mail Number: Z 740 697 781

Mobil Exploration & Production U.S. Inc.
P. O. Box 633
Midland, Texas 79702

Certified Mail Number: Z 740 697 782