

CROSS TIMBERS ENERGY, LLC

TO Adrienne Sandoval, Director
Oil Conservation Division
New Mexico Department of Energy, Mineral, and Natural Resources
1220 South Saint Francis Drive
Santa Fe, New Mexico 87505

FROM Cross Timbers Energy, LLC, OGRID 298299

DATE November 15, 2022

RE Application for Downhole Commingling (Identical Ownership)
Abo, North and Drinkard Pools, NM J STATE EM #6, Lea County

Dear Ms. Sandoval,

Cross Timbers Energy, LLC hereby makes an application requesting the administrative approval and authorization to downhole commingle the Abo, North and Drinkard Pools for oil and gas production from the following well:

Well: New Mexico J State EM #6
API: 30-025-37953
Location: 490' FSL, 790' FWL, Unit Letter M, Sec 19, Twnshp 17S,
R 35E, Lea County, New Mexico

The subject well is an existing vertical wellbore originally drilled and completed in 2006 in the Vacuum; Abo, North Pool (61760). The wellbore was re-entered in April of 2022 and was perforated and recompleted in the Drinkard Pool (98359), a CIBP having been placed above the Abo perfs, with production only from the Drinkard. With approval, the CIBP will be drilled out and production from both pools downhole commingled. The value of production is not expected to decrease due to commingling.

Enclosed is the following documentation in support of this application:

Application Checklist

Form C-107A

Form C-102 Plats

Interest Owner List

Copy of Interest Owner Notice and copy of Certified Mail label

Current and Proposed Wellbore Diagrams



Thank you for your consideration and review of this application. If further information is needed, please do not hesitate to contact me.

Respectfully,

Connie Blaylock

Connie Blaylock

Regulatory Analyst

MorningStar Partners, L.P. / MorningStar Operating LLC / Cross Timbers Energy,

LLC

Revised March 23, 2017

RECEIVED:	REVIEWER:	TYPE:	APP NO:
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ABOVE THIS TABLE FOR OCD DIVISION USE ONLY

NEW MEXICO OIL CONSERVATION DIVISION
 - Geological & Engineering Bureau -
 1220 South St. Francis Drive, Santa Fe, NM 87505



ADMINISTRATIVE APPLICATION CHECKLIST

THIS CHECKLIST IS MANDATORY FOR ALL ADMINISTRATIVE APPLICATIONS FOR EXCEPTIONS TO DIVISION RULES AND REGULATIONS WHICH REQUIRE PROCESSING AT THE DIVISION LEVEL IN SANTA FE

Applicant: CROSS TIMBERS ENERGY, LLC **OGRID Number:** 298299
Well Name: NEW MEXICO J STATE EM #6 **API:** 30-025-37953
Pool: WILDCAT G-04 S173519M; DRINKARD AND VACUUM; ABO, NORTH **Pool Code:** 98359 / 61760

SUBMIT ACCURATE AND COMPLETE INFORMATION REQUIRED TO PROCESS THE TYPE OF APPLICATION INDICATED BELOW

- 1) **TYPE OF APPLICATION:** Check those which apply for [A]
 A. Location – Spacing Unit – Simultaneous Dedication
 NSL NSP (PROJECT AREA) NSP (PRORATION UNIT) SD
- B. Check one only for [I] or [II]
 [I] Commingling – Storage – Measurement
 DHC CTB PLC PC OLS OLM
 [II] Injection – Disposal – Pressure Increase – Enhanced Oil Recovery
 WFX PMX SWD IPI EOR PPR

- 2) **NOTIFICATION REQUIRED TO:** Check those which apply.
 A. Offset operators or lease holders
 B. Royalty, overriding royalty owners, revenue owners
 C. Application requires published notice
 D. Notification and/or concurrent approval by SLO
 E. Notification and/or concurrent approval by BLM
 F. Surface owner
 G. For all of the above, proof of notification or publication is attached, and/or,
 H. No notice required

FOR OCD ONLY	
<input type="checkbox"/>	Notice Complete
<input type="checkbox"/>	Application Content Complete

3) **CERTIFICATION:** I hereby certify that the information submitted with this application for administrative approval is **accurate** and **complete** to the best of my knowledge. I also understand that **no action** will be taken on this application until the required information and notifications are submitted to the Division.

Note: Statement must be completed by an individual with managerial and/or supervisory capacity.

CONNIE BLAYLOCK
Print or Type Name

Connie Blaylock
Signature

11/15/2022
Date

817-334-7882
Phone Number

cblaylock@mspartners.com
e-mail Address

District I
1625 N. French Drive, Hobbs, NM 88240

District II
811 S. First St., Artesia, NM 88210

District III
1000 Rio Brazos Road, Aztec, NM 87410

District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy, Minerals and Natural Resources Department

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, New Mexico 87505

Form C-107A
Revised August 1, 2011

APPLICATION TYPE
 Single Well
 Establish Pre-Approved Pools
 EXISTING WELLBORE
 Yes No

APPLICATION FOR DOWNHOLE COMMINGLING

Operator CROSS TIMBERS ENERGY, LLC 400 W 7TH ST, FORT WORTH, TX 76102 Address

Lease NEW MEXICO J STATE 6 M 19 17S 35E LEA Well No. Unit Letter-Section-Township-Range County

OGRID No. 298299 Property Code 301573 API No. 30-025-37953 Lease Type: Federal State Fee

DATA ELEMENT	UPPER ZONE	INTERMEDIATE ZONE	LOWER ZONE
Pool Name	WILDCAT G-04 S173519M;DRINKARD		VACUUM; ABO, NORTH
Pool Code	98359		61760
Top and Bottom of Pay Section (Perforated or Open-Hole Interval)	7569 - 7999		8504 - 8785
Method of Production (Flowing or Artificial Lift)	ROD PUMP		ROD PUMP
Bottomhole Pressure (Note: Pressure data will not be required if the bottom perforation in the lower zone is within 150% of the depth of the top perforation in the upper zone)			
Oil Gravity or Gas BTU (Degree API or Gas BTU)	36.4		36.8
Producing, Shut-In or New Zone	PRODUCING		SHUT-IN
Date and Oil/Gas/Water Rates of Last Production. (Note: For new zones with no production history, applicant shall be required to attach production estimates and supporting data.)	Date: 10/3/2022 Rates: 2 / 3 / 20	Date: Rates:	Date: 03/31/2022 Rates: 10 / 14 / 95
Fixed Allocation Percentage (Note: If allocation is based upon something other than current or past production, supporting data or explanation will be required.)	Oil 17 % Gas 18 %	Oil % Gas %	Oil 83 % Gas 82 %

ADDITIONAL DATA

Are all working, royalty and overriding royalty interests identical in all commingled zones? Yes No
If not, have all working, royalty and overriding royalty interest owners been notified by certified mail? Yes No

Are all produced fluids from all commingled zones compatible with each other? Yes No

Will commingling decrease the value of production? Yes No

If this well is on, or communitized with, state or federal lands, has either the Commissioner of Public Lands or the United States Bureau of Land Management been notified in writing of this application? Yes No

NMOCD Reference Case No. applicable to this well: _____

Attachments:

- C-102 for each zone to be commingled showing its spacing unit and acreage dedication.
- Production curve for each zone for at least one year. (If not available, attach explanation.)
- For zones with no production history, estimated production rates and supporting data.
- Data to support allocation method or formula.
- Notification list of working, royalty and overriding royalty interests for uncommon interest cases.
- Any additional statements, data or documents required to support commingling.

PRE-APPROVED POOLS

If application is to establish Pre-Approved Pools, the following additional information will be required:

- List of other orders approving downhole commingling within the proposed Pre-Approved Pools
- List of all operators within the proposed Pre-Approved Pools
- Proof that all operators within the proposed Pre-Approved Pools were provided notice of this application.
- Bottomhole pressure data.

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

SIGNATURE Connie Blaylock TITLE REGULATORY ANALYST DATE 11/15/2022

TYPE OR PRINT NAME CONNIE BLAYLOCK TELEPHONE NO. (817) 334-7882

E-MAIL ADDRESS cblaylock@mspartners.com

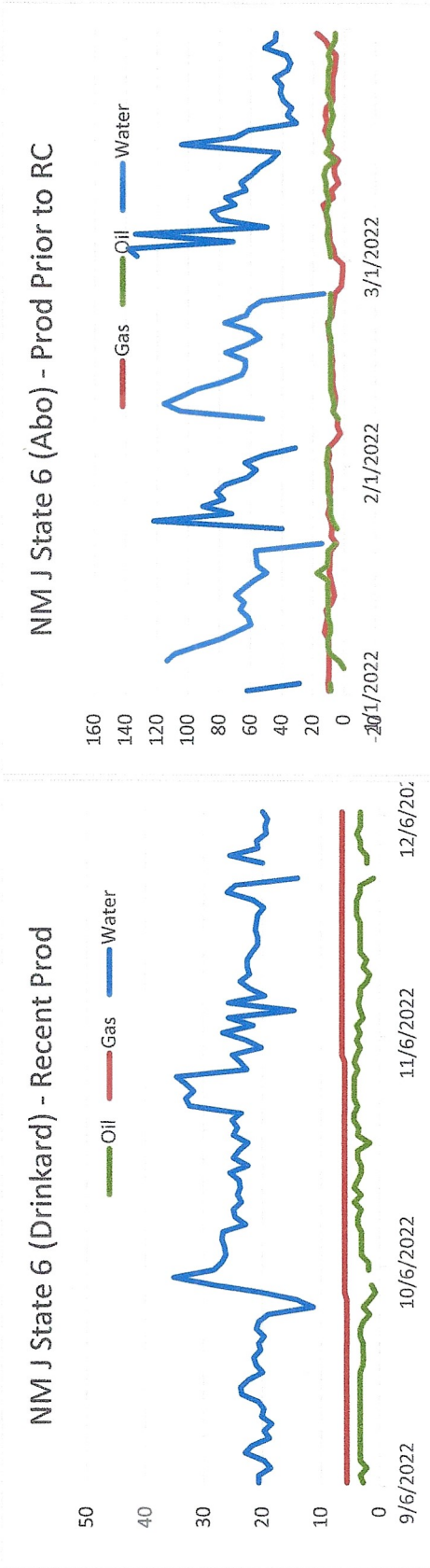
**Cross Timbers Energy
NIM J State 6
Proposed Commingling Allocation**

Latest 90 days Production Averages

	Oil	Gas	Water	Production Period
Abo	9.2	8.3	65.5	1/1/2022 - 3/31/2022
Drinkard	3.2	6.1	22.8	9/6/2022 - 12/6/2022

Proposed Allocation Factors

	Oil	Gas	Water	Production Period
Abo	74%	58%	74%	7/1993 - 6/1996
Drinkard	26%	42%	26%	4/2019 - 3/2022



Cross Timbers Energy

NM J State 6 - Drinkard Production History Last 90d

Ending Prod Rate for Commingling Application

90 Day Avg	3.2	6.1	22.8
Date	Oil	Gas	Water
12/6/2022	3.35	6.43	20
12/5/2022	3.35	6.43	19.2
12/4/2022	3.35	6.43	19.6
12/3/2022	3.91	6.43	19.4
12/2/2022	3.36	6.43	21
12/1/2022	3.36	6.43	20.8
11/30/2022	2.24	6.43	25.6
11/29/2022	2.24	6.43	20
11/28/2022		6.43	
11/27/2022	1.12	6.43	14
11/26/2022	3.36	6.43	24.6
11/25/2022	3.36	6.43	26
11/24/2022	3.92	6.43	21.6
11/23/2022	3.91	6.43	19.8
11/22/2022	3.91	6.43	20.8
11/21/2022	3.35	6.43	21
11/20/2022	3.35	6.43	21.2
11/19/2022	3.35	6.43	20.8
11/18/2022	3.35	6.43	20.8
11/17/2022	3.35	6.43	21.8
11/16/2022	2.24	6.43	22.6
11/15/2022	2.8	6.43	22.6
11/14/2022	1.68	6.43	22.2
11/13/2022	2.24	6.43	23.8
11/12/2022	3.35	6.43	22.2
11/11/2022	3.35	6.43	19.6
11/10/2022	3.62	6.43	25.8
11/9/2022	3.35	6.43	14.6
11/8/2022	2.8	6.43	25.8
11/7/2022	3.92	6.43	21.6
11/6/2022	3.36	6.43	26.8
11/5/2022	3.92	6.43	22.8
11/4/2022	3.36	6.43	20.2
11/3/2022	3.92	6.43	25.15
11/2/2022	4.35	6	23.76
11/1/2022	3.73	6	22.64
10/31/2022	4.35	6	34.64
10/30/2022	4.35	6	33.06
10/29/2022	4.35	6	31.7
10/28/2022	4.35	6	33.06
10/27/2022	3.73	6	32.38
10/26/2022	4.35	6	23.55
10/25/2022	4.35	6	25.13
10/24/2022	3.53	6	24.23
10/23/2022	3.73	6	24.91
10/22/2022	1.65	6	22.42
10/21/2022	3.73	6	24
10/20/2022	3.73	6	24.91
10/19/2022	3.11	6	22.42
10/18/2022	3.11	6	25.58
10/17/2022	3.73	6	24
10/16/2022	4.35	6	23.77

Date	Oil	Gas	Water	Drinkard
10/15/2022		3.11	6	24.23
10/14/2022		4.35	6	23.55
10/13/2022		3.11	6	24.91
10/12/2022		3.73	6	24.68
10/11/2022		3.73	6	22.87
10/10/2022		3.11	6	26.72
10/9/2022		3.11	6	26.94
10/8/2022		3.11	6	26.49
10/7/2022		3.11	6	26.26
10/6/2022		1.86	6	26.94
10/5/2022		1.86	6	28.3
10/4/2022			6	35.09
10/3/2022		1.4	6	28.53
10/2/2022		0.75	6	20.32
10/1/2022		1.68	5.63	14.16
9/30/2022		2.8	5.63	11.29
9/29/2022		1.69	5.63	19
9/28/2022		2.8	5.63	20.69
9/27/2022		3.36	5.63	21.07
9/26/2022		3.36	5.63	19.75
9/25/2022		2.8	5.63	20.69
9/24/2022		2.8	5.63	20.32
9/23/2022		2.78	5.63	21.45
9/22/2022		2.8	5.63	21.07
9/21/2022		3.36	5.63	19.94
9/20/2022		3.36	5.63	22.39
9/19/2022		3.36	5.63	23.7
9/18/2022		3.36	5.63	23.51
9/17/2022		3.36	5.63	20.69
9/16/2022		3.36	5.63	19.75
9/15/2022		3.36	5.63	20.13
9/14/2022		3.35	5.63	18.44
9/13/2022		3.35	5.63	19.75
9/12/2022		3.35	5.63	18.81
9/11/2022		3.35	5.63	21.82
9/10/2022		3.35	5.63	22.95
9/9/2022		3.35	5.63	19.75
9/8/2022		2.24	5.63	18.62
9/7/2022		3.35	5.63	20.69
9/6/2022		2.8	5.63	20.69

Cross Timbers Energy

NM J State 6 - **Abo Production History Final 90d**

Ending Prod Rate for Commingling Application

90 Day Avg	9.2	8.3	65.5
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Date	Oil	Gas	Water
1/1/2022	8.39	9.72	62
1/2/2022	8.83	10	28.48
1/3/2022		9.56	
1/4/2022	-0.01	9.56	
1/5/2022	2.94	9.56	113.52
1/6/2022	8.83	9.56	108.41
1/7/2022	10.3	9.94	94.6
1/8/2022	10.3	9.94	79.26
1/9/2022	8.83	12.62	69.55
1/10/2022	8.83	11.47	59.83
1/11/2022	10.3	10.32	61.36
1/12/2022	10.3	11.47	66.48
1/13/2022	10.3	8.03	63.92
1/14/2022	10.3	6.12	69.55
1/15/2022	10.32	7.26	63.92
1/16/2022	10.3	8.41	57.78
1/17/2022	17.4	9.56	49.6
1/18/2022	10.86	9.18	55.74
1/19/2022	10.3	9.18	56.25
1/20/2022	10.3	8.79	56.76
1/21/2022	5.52	4.97	14.32
1/22/2022		8.41	
1/23/2022	4.41	7.65	39.89
1/24/2022	7.36	8.41	122.22
1/25/2022	8.83	10.32	72.1
1/26/2022	8.83	9.18	90.51
1/27/2022	8.83	9.56	77.22
1/28/2022	10.3	8.79	81.82
1/29/2022	10.3	9.18	76.19
1/30/2022	10.3	8.41	61.88
1/31/2022	10.3	8.79	56.25
2/1/2022	11.19	10.4	63.68
2/2/2022	10.65	9.39	51.65
2/3/2022	10.07	10.22	31.49
2/4/2022		5.68	
2/5/2022		2.27	
2/6/2022		4.54	
2/7/2022	3.78	4.16	52.49
2/8/2022	7.54	7.19	104.97
2/9/2022	6.29	6.05	115.47
2/10/2022	7.54	5.68	104.97
2/11/2022	8.8	6.81	95
2/12/2022	8.8	7.57	78.2
2/13/2022	8.8	7.19	65.61
2/14/2022	8.8	7.95	63.51
2/15/2022	8.8	7.57	63.51
2/16/2022	8.8	8.32	76.1
2/17/2022	8.8	8.32	63.51
2/18/2022	8.8	9.46	54.06
2/19/2022	10.06	9.84	59.83
2/20/2022	10.07	10.59	76.63
2/21/2022	8.8	7.95	62.98

Date	Oil	Gas	Water	Abo
2/22/2022		8.8	7.57	60.36
2/23/2022		8.81	6.81	53.01
2/24/2022		8.81	6.05	13.12
2/25/2022			1.89	
2/26/2022			1.51	
2/27/2022			1.14	
2/28/2022			1.14	
3/1/2022	8.8		6.22	133
3/2/2022	9.27		6.8	138.52
3/3/2022	10.25		9.18	71.09
3/4/2022	11.03		9.56	133.82
3/5/2022	10.25		9.94	49.66
3/6/2022	10.25		10.71	80.5
3/7/2022	11.71		11.85	84.68
3/8/2022	10.25		13.76	70.05
3/9/2022	10.25		7.26	76.32
3/10/2022	11.71		8.41	63.25
3/11/2022	11.72		3.82	66.39
3/12/2022	13.18		6.12	59.59
3/13/2022	11.72		6.5	54.89
3/14/2022	5.87		3.82	47.05
3/15/2022	11.73		9.94	42.34
3/16/2022	8.79		8.03	104.55
3/17/2022	10.25		10.32	70.05
3/18/2022	10.25		12.62	61.16
3/19/2022	8.78		10.71	30.84
3/20/2022	7.32		12.24	36.59
3/21/2022	8.78		11.47	33.98
3/22/2022	8.78		7.65	39.2
3/23/2022	10.85		7.65	41.3
3/24/2022	10.25		7.65	40.25
3/25/2022	10.25		7.65	44.95
3/26/2022	10.25		6.12	36.59
3/27/2022	8.78		5.74	34.5
3/28/2022	10.25		5.35	37.11
3/29/2022	8.79		9.56	51.23
3/30/2022	5.86		12.24	44.43
3/31/2022	5.86		17.59	43.91

District I
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone: (575) 748-1283 Fax: (575) 748-9720
District III
1000 Rio Brazos Road, Aztec, NM 87410
Phone: (505) 334-6178 Fax: (505) 334-6170
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505
Phone: (505) 476-3460 Fax: (505) 476-3462

State of New Mexico
Energy, Minerals & Natural Resources Department
OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-102
Revised August 1, 2011
Submit one copy to appropriate
District Office

AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-025-37953		² Pool Code 19190		³ Pool Name DRINKARD	
⁴ Property Code 301573		⁵ Property Name NEW MEXICO J STATE EM			⁶ Well Number 6
⁷ OGRID No. 29899		⁸ Operator Name CROSS TIMBERS ENERGY, LLC			⁹ Elevation 3989' GL

¹⁰ Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
M	19	17S	35E		490	SOUTH	790	WEST	LEA

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

¹² Dedicated Acres 75.38	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 Lot 1 37.66 AC Lot 2 37.68 AC Lot 3 37.68 AC #4 Lot 4 37.70 AC 	¹⁷ OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division. Signature: <u>Connie Blaylock</u> Date: <u>10/25/21</u> Printed Name: <u>Connie Blaylock</u> E-mail Address: <u>cblaylock@mspartners.com</u>		
	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 Surveyor: _____		
	COORDINATES NAD 27 NME Y=661095.6 N X=755306.5 E LAT. 32.8146815 LONG. -103.5023307		
	Certificate Number		

DISTRICT I
1825 N. FRENCH DR., HOBBS, NM 88240

DISTRICT II
1301 W. GRAND AVENUE, ARTESIA, NM 88210

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

DISTRICT IV
1220 S. ST. FRANCIS DR., SANTA FE, NM 87505

State of New Mexico
Energy, Minerals and Natural Resources Department

OIL CONSERVATION DIVISION
1220 SOUTH ST. FRANCIS DR.
Santa Fe, New Mexico 87505

Form C-102
Revised October 12, 2005
Submit to Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 Copies

WELL LOCATION AND ACREAGE DEDICATION PLAT

AMENDED REPORT

API Number 30-025-37953	Pool Code 61760	Pool Name Vacuum; Abo, North
Property Code 301573	Property Name <i>New Mexico</i> J STATE EM	Well Number 6
OGRID No. 005380	Operator Name XTO ENERGY	Elevation 3989'

Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
M	19	17-S	35-E		490	SOUTH	790	WEST	LEA

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								
<table border="1"> <tr> <td>Dedicated Acres</td> <td>Joint or Infill</td> <td>Consolidation Code</td> <td>Order No.</td> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </table>										Dedicated Acres	Joint or Infill	Consolidation Code	Order No.				
Dedicated Acres	Joint or Infill	Consolidation Code	Order No.														

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

LOT 1
37.66 AC

LOT 2
37.68 AC

LOT 3
37.68 AC

LOT 4
37.70 AC

1160'

2180'

790'

490'

GEODETC COORDINATES
NAD 27 NME
Y=661057.5 N
X=755285.0 E
LAT.=32°48'52.48" N
LONG.=103°30'08.65" W

OPERATOR CERTIFICATION

I hereby certify that the information herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

Kristy Ward 5/3/07
Signature Date

Kristy Ward
Printed Name

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.

JUNE 14, 2006
Date Surveyed MR

Gary A. Edson
Signature & Seal of Professional Surveyor

06.11.0823

Certificate No. GARY EDSON 12641

CROSS TIMBERS ENERGY, LLC

LAND OWNERSHIP STATUS

Application of Cross Timbers Energy, LLC for Administrative Approval to Downhole Commingle the Wildcat G-04 S173519M; Drinkard and the Vacuum; Abo, North Pools:

New Mexico J State EM #6, API 30-025-37953
490' FSL, 790' FWL, Unit Letter M, Se 19, Township 17S, Range 35E
Lea County, New Mexico

Lease Owner – 100% WI

Cross Timbers Energy, LLC
400 W 7th St.
Fort Worth, TX 76102

Royalty Owner – 12.5% Royalty

State of New Mexico
Commissioner of Public Lands
P.O. Box 1148
Santa Fe, New Mexico 87504-1148

The New Mexico J State EM #6 was originally drilled and completed in 2006 in the Vacuum; Abo, North Pool (61760). The wellbore was re-entered in April of 2022 and was perforated and recompleted in the Drinkard Pool (98359), a CIBP having been placed above the Abo perms, with production only from the Drinkard. The CIBP will be drilled out and production from both pools downhole commingled. Ownership is identical between the two pools.

By: Connie Blaylock

Connie Blaylock, Regulatory Analyst



CROSS TIMBERS ENERGY, LLC
400 W 7TH ST
FORT WORTH TX 76102-4701

\$4.81 US POSTAGE
FIRST-CLASS
Dec 08 2022
Mailed from ZIP 76102
2 OZ FIRST-CLASS MAIL LETTER
RATE
11923275



062S0012913542

USPS CERTIFIED MAIL



9407 1118 9876 5835 0480 17

COMMISSIONER OF PUBLIC LANDS
STATE OF NEW MEXICO
PO BOX 1148
SANTA FE NM 87504-1148



CROSS TIMBERS ENERGY, LLC

Certified Mail – Return Receipt

Date: November 18, 2022

Re: Downhole Commingling Application (Identical Ownership)
New Mexico J State EM #6

Dear Sir/Madam:

Enclosed please find a copy of Cross Timbers Energy, LLC's Application for Downhole Commingle for well New Mexico J State EM #6, located in Lea County, New Mexico, filed this date with the New Mexico Oil Conservation Division (NMOCD). The two pools proposed for downhole commingle are the Wildcat G-04 S173519M; Drinkard, and the Vacuum; Abo, North. The value of production is not expected to decrease due to commingling.

For questions regarding this application, please contact me at 817-334-7882, or by email at cblaylock@mspartner.com.

Kind Regards,

Cross Timbers Energy, LLC

By: *Connie Blaylock*

Connie Blaylock, Regulatory Analyst



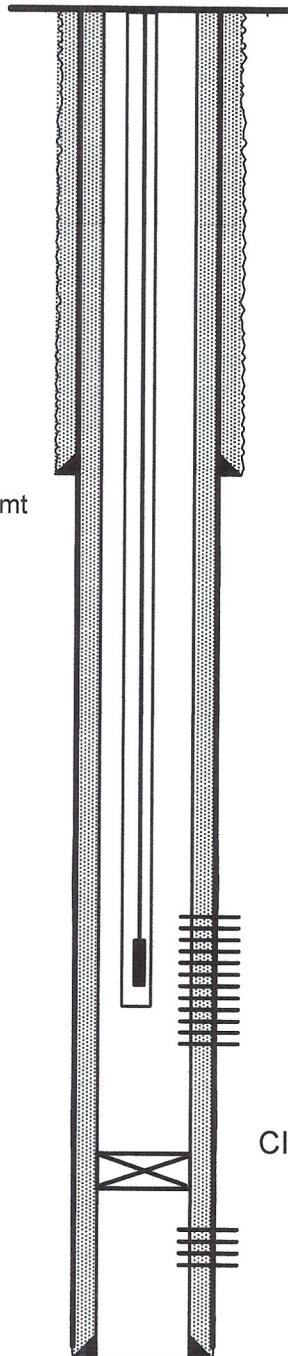
400 WEST SEVENTH STREET, FORT WORTH, TEXAS 76102 PHONE: 817-334-7800

Well: New Mexico J State #6
Location: 490' FSL & 790' FWL
Sec 19, T-17-S, R-35-E
Lea County, NM

API: 30-025-37953
Elev: 3,989' GL 4,006' KB

PUMPING UNIT: Lufkin C-640-365-168
Spud: 7/25/06
Completion:
10/25/2006: Perf Abo 8652' - 8785' w/ 104 holes.
10/27/2006: Acidize w/ 5,000 gals 20% HCL & 200 BS @ 6 BPM. Balled out. ISIP 2350 psi. 15 min 1424 psi.
11/3/2006: Pumped 10,000 gals 20% ultragel into 8652' - 8756'
11/7/2006: Perf'd 8504' - 8616'
11/8/2006: Acidized w/ 6,000 gals 20% HCL plus ball sealers. 12,000 gals 20% ultragel plus ball sealers.
08/20/2010: Pump Change
04/17/2013: Pump Change
04/2022: Drinkard Recompletion

9 5/8" 36 ppf.
Set at 1,656'.
Cemented with
760 sx CL C. Cmt
Circ w/177 sx.



2-7/8" production string w/ D78 rods and 1-1/4" insert pump

Drinkard Perfs:
7,569' - 7,999' (102 shots)

CIBP @ 8,480'

Abo Perfs:
8,504' - 8,785'

TD: 8820'

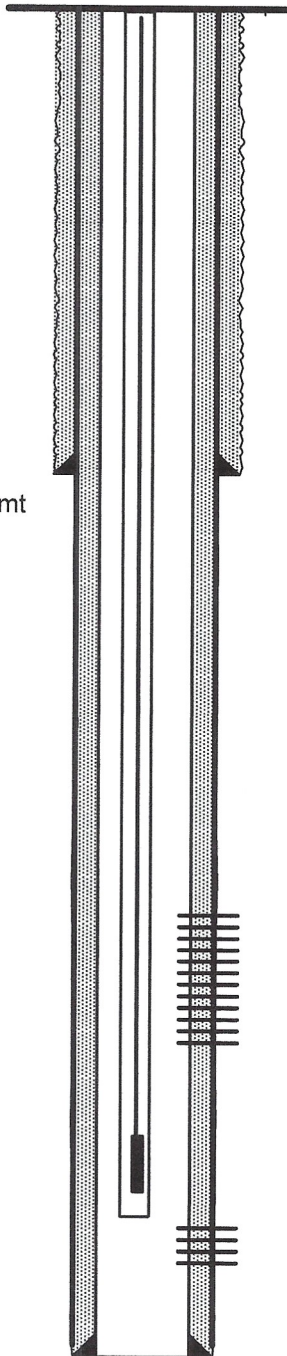
7", 26#, P-110 csg set @ 8,840'. Circ, Cmt 1st stg w/500sx 50:50 Poz "H" + 0.8% ASA-301, 10% gel, 0.3% R-21, 0.5% FL-25 & 340sx Class "H" + 0.2% FL-25, .15% SMS, 0.5% ASA-301, 1% FL-62 (15.6 ppg, 1.19 yld). Cmt'd 2nd stg w/1,500sx 50:50 Poz "H" + 10% gel, 3 pps LCM-1, 0.8% ASA-301, 0.5% FL-25, 0.1% R-21 & 200sx Class "C" neat. Circ 436sx cmt to surf. DV TOOL (Davis Lynch) @ 4993' - 4995'

Well: New Mexico J State #6
Location: 490' FSL & 790' FWL
Sec 19, T-17-S, R-35-E
Lea County, NM

API: 30-025-37953
Elev: 3,989' GL 4,006' KB

PROPOSED DOWNHOLE COMMINGLE

PUMPING UNIT: Lufkin C-640-365-168
Spud: 7/25/06
Completion:
10/25/2006: Perf Abo 8652' - 8785' w/ 104 holes.
10/27/2006: Acidize w/ 5,000 gals 20% HCL & 200 BS @ 6 BPM. Balled out. ISIP 2350 psi. 15 min 1424 psi.
11/3/2006: Pumped 10,000 gals 20% ultragel into 8652' - 8756'
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11/8/2006: Acidized w/ 6,000 gals 20% HCL plus ball sealers. 12,000 gals 20% ultragel plus ball sealers.
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8,504' – 8,785'

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7", 26#, P-110 csg set @ 8,840'. Circ, Cmt 1st stg w/500sx 50:50 Poz "H" + 0.8% ASA-301, 10% gel, 0.3% R-21, 0.5% FL-25 & 340sx Class "H" + 0.2% FL-25, .15% SMS, 0.5% ASA-301, 1% FL-62 (15.6 ppg, 1.19 yld). Cmt'd 2nd stg w/1,500sx 50:50 Poz "H" + 10% gel, 3 pps LCM-1, 0.8% ASA-301, 0.5% FL-25, 0.1% R-21 & 200sx Class "C" neat. Circ 436sx cmt to surf. DV TOOL (Davis Lynch) @ 4993' - 4995'

From: [McClure, Dean, EMNRD](#) on behalf of [Engineer, OCD, EMNRD](#)
To: [Connie Blaylock](#); [Connie Blaylock](#)
Cc: [McClure, Dean, EMNRD](#); [Kautz, Paul, EMNRD](#); [Wrinkle, Justin, EMNRD](#); [Powell, Brandon, EMNRD](#); [Dawson, Scott](#); [Lamkin, Baylen L.](#)
Subject: Approved Administrative Order DHC-5269
Date: Friday, March 3, 2023 2:30:32 PM
Attachments: [DHC5269 Order.pdf](#)

NMOCD has issued Administrative Order DHC-5269 which authorizes Cross Timbers Energy, LLC (298299) to downhole commingle production within the following well:

Well Name: **New Mexico J State EM #6**

Well API: **30-025-37953**

The administrative order is attached to this email and can also be found online at OCD Imaging.

Please review the content of the order to ensure you are familiar with the authorities granted and any conditions of approval. If you have any questions regarding this matter, please contact me.

Dean McClure
Petroleum Engineer, Oil Conservation Division
New Mexico Energy, Minerals and Natural Resources Department
(505) 469-8211

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

**APPLICATION FOR DOWNHOLE COMMINGLING
SUBMITTED BY CROSS TIMBERS ENERGY, LLC**

ORDER NO. DHC-5269

ORDER

The Director of the New Mexico Oil Conservation Division (“OCD”), having considered the application and the recommendation of the Engineering Bureau, issues the following Order.

FINDINGS OF FACT

1. Cross Timbers Energy, LLC (“Applicant”) submitted a complete application (“Application”) to downhole commingle the pools described in Exhibit A (“the Pools”) within the well bore of the well identified in Exhibit A (“the Well”).
2. Applicant proposed a method to allocate the oil and gas production from the Well to each of the Pools that is satisfactory to the OCD and protective of correlative rights.
3. Applicant has certified that all produced fluids from all the Pools are compatible with each other.
4. Applicant has certified that downhole commingling the Pools will not decrease the value of the oil and gas production.
5. To the extent that ownership is identical, Applicant submitted a certification by a licensed attorney or qualified petroleum landman that ownership in the Pools is identical as defined by 19.15.12.7(B) NMAC.
6. Applicant provided notice of the Application to the Bureau of Land Management (“BLM”) or New Mexico State Land Office (“NMSLO”), as applicable.

CONCLUSIONS OF LAW

7. OCD has jurisdiction to issue this Order pursuant to the Oil and Gas Act, NMSA 1978, Sections 70-2-6, 70-2-11, 70-2-12, 70-2-16, 70-2-17, and 19.15.12 NMAC.
8. The downhole commingling of the Pools is common, or Applicant has provided evidence that the fluids are compatible and will not damage the Pools in accordance with 19.15.12.11(A)(1) NMAC.
9. The bottom perforation of the lower zone is within one hundred fifty percent (150%) of the depth of the top perforation in the upper zone or Applicant has provided evidence that the proposed commingling of the Pools shall not result in shut-in or flowing well bore pressure in excess of the commingled pool’s fracture parting pressure in accordance with 19.15.12.11(A)(3) NMAC.

10. Applicant's proposed method of allocation, as modified herein, complies with 19.15.12.11(A)(8) NMAC.
11. By granting the Application with the conditions specified below, this Order prevents waste and protects correlative rights, public health, and the environment.

ORDER

1. Applicant is authorized to downhole commingle the Pools described in Exhibit A within the well bore of the well identified in Exhibit A.
2. Applicant shall allocate a fixed percentage of the oil and gas production from the Well to each of the Pools as described in Exhibit A.
3. If an alteration is made to the Well or a condition within the Well changes which may cause the allocation of production to the Pools as approved within this Order to become inaccurate, then no later than sixty (60) days after that event, Applicant shall submit Form C-103 to the OCD Engineering Bureau describing the event and include a revised allocation plan. If OCD denies the revised allocation plan, this Order shall terminate on the date of such action.
4. If any of the pools being commingled is prorated, or the Well's production has been restricted by an OCD order in any manner, the allocated production from each producing pool in the commingled well bore shall not exceed the top oil or gas allowable rate for a well in that pool or rate restriction applicable to the well.
5. If the Well is deepened, then no later than forty-five (45) days after the Well is deepened, Applicant shall conduct and provide logs to OCD that are sufficient for OCD to determine which pool(s) each new completed interval of the Well will produce from.
6. If the downhole commingling of the Pools reduces the value of the oil and gas production to less than if it had remained segregated, no later than sixty (60) days after the decrease in value has occurred Applicant shall submit a new downhole commingling application to OCD to amend this Order to remove the pool that caused the decrease in value. If Applicant fails to submit a new application, this Order shall terminate on the following day, and if OCD denies the application, this Order shall terminate on the date of such action.
7. If a completed interval of the Well is altered from what is submitted within the Application as identified in Exhibit A, then no later than sixty (60) days after the alteration, Applicant shall submit Form C-103 to the OCD Engineering Bureau detailing the alteration and completed interval.
8. If OCD determines that Applicant has failed to comply with any provision of this Order, OCD may take any action authorized by the Oil and Gas Act or the New Mexico Administrative Code (NMAC).
9. OCD retains jurisdiction of this matter and reserves the right to modify or revoke this Order as it deems necessary.

**STATE OF NEW MEXICO
OIL CONSERVATION DIVISION**



**DYLAN M. FUGE
DIRECTOR (ACTING)**

DATE: 3/3/23

State of New Mexico
Energy, Minerals and Natural Resources Department

Exhibit A

Order: **DHC-5269**

Operator: **Cross Timbers Energy, LLC (298299)**

Well Name: **New Mexico J State EM #6**

Well API: **30-025-37953**

Upper Zone

Pool Name: **WILDCAT G-04 S173519M;DRINKARD**

Pool ID: **98359**

Current: **X**

New:

Allocation: **Fixed Percent**

Oil: **26%**

Gas: **42%**

Interval: **Perforations**

Top: **7,569**

Bottom: **7,999**

Intermediate Zone

Pool Name:

Pool ID:

Current:

New:

Allocation:

Oil:

Gas:

Interval:

Top:

Bottom:

Bottom of Interval within 150% of Upper Zone's Top of Interval:

Lower Zone

Pool Name: **VACUUM;ABO, NORTH**

Pool ID: **61760**

Current:

New: **X**

Allocation: **Fixed Percent**

Oil: **74%**

Gas: **58%**

Interval: **Perforations**

Top: **8,504**

Bottom: **8,785**

Bottom of Interval within 150% of Upper Zone's Top of Interval: **YES**

District I
 1625 N. French Dr., Hobbs, NM 88240
 Phone:(575) 393-6161 Fax:(575) 393-0720

District II
 811 S. First St., Artesia, NM 88210
 Phone:(575) 748-1283 Fax:(575) 748-9720

District III
 1000 Rio Brazos Rd., Aztec, NM 87410
 Phone:(505) 334-6178 Fax:(505) 334-6170

District IV
 1220 S. St Francis Dr., Santa Fe, NM 87505
 Phone:(505) 476-3470 Fax:(505) 476-3462

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

CONDITIONS

Action 165918

CONDITIONS

Operator: CROSS TIMBERS ENERGY, LLC 400 West 7th Street Fort Worth, TX 76102	OGRID: 298299
	Action Number: 165918
	Action Type: [C-107] Down Hole Commingle (C-107A)

CONDITIONS

Created By	Condition	Condition Date
dmcclure	Please review the content of the order to ensure you are familiar with the authorities granted and any conditions of approval. If you have any questions regarding this matter, please contact me.	3/3/2023