

Submit 1 Copy To Appropriate District Office
District I - (575) 393-6161
1625 N. French Dr., Hobbs, NM 88240
District II - (575) 748-1283
811 S. First St., Artesia, NM 88210
District III - (505) 334-6178
1000 Rio Brazos Rd., Aztec, NM 87410
District IV - (505) 476-3460
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy, Minerals and Natural Resources

Form C-103
Revised July 18, 2013

OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

SUNDRY NOTICES AND REPORTS ON WELLS (DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.)		WELL API NO. 30-039-30280
1. Type of Well: Oil Well ☐ Gas Well ☒ Other ☐		5. Indicate Type of Lease STATE ☒ FEE ☐
2. Name of Operator CROSS TIMBERS ENERGY, LLC		6. State Oil & Gas Lease No. E29117
3. Address of Operator 400 WEST 7th STREET, FORT WORTH, TX 76102		7. Lease Name or Unit Agreement Name STATE "A"
4. Well Location Unit Letter G : 1975 feet from the N line and 1950 feet from the E line Section 2 Township 26N Range 06W NMPM County RIO ARRIBA		8. Well Number 77
11. Elevation (Show whether DR, RKB, RT, GR, etc.) 6653 GR		9. OGRID Number 298299
		10. Pool name or Wildcat Basin DK/Basin MC/S. Blanco MV

12. Check Appropriate Box to Indicate Nature of Notice, Report or Other Data

NOTICE OF INTENTION TO:

PERFORM REMEDIAL WORK ☐ PLUG AND ABANDON ☐
TEMPORARILY ABANDON ☐ CHANGE PLANS ☐
PULL OR ALTER CASING ☒ MULTIPLE COMPL ☐
DOWNHOLE COMMINGLE ☒
CLOSED-LOOP SYSTEM ☒
OTHER: ☒ Recompletion ☒

SUBSEQUENT REPORT OF:

REMEDIAL WORK ☐ ALTERING CASING ☐
COMMENCE DRILLING OPNS. ☐ P AND A ☐
CASING/CEMENT JOB ☐

OTHER: ☐

13. Describe proposed or completed operations. (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work). SEE RULE 19.15.7.14 NMAC. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion.

Complete Mancos formation from 6,571'-6,955'. Foam frac with 125,000 gallons 70Q, N2 foam carrying 180,000# proppant.

Complete Mesaverde formation from 4,914'-5,475'. Foam frac with 180,000 gallons 70Q, N2 foam carrying 270,000# proppant in 3 stages.

Downhole commingle MV/Mancos & DK.

DHC-4708 & NSP-2009 approved 10/20/2014.

Spud Date: **8/10/2007**

Rig Release Date: **5/22/2007**

*File C104 & C105 for Mancos & MV before returning to production
I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNATURE Robbie A. Grigg TITLE REGULATORY COMPLIANCE DATE 10/22/2014

Type or print name ROBBIE A GRIGG E-mail address: rgrigg@mspartners.com PHONE: 817-334-7842

For State Use Only

APPROVED BY: Charles R. Grigg TITLE SUPERVISOR DISTRICT # 3 DATE 10-30-14
Conditions of Approval (if any): NV

District I
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6181 Fax: (575) 393-0720

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811 S. First St., Artesia, NM 88210
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District IV
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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 30-039-30280		² Pool Code 97232	³ Pool Name BASIN MANCOS
⁴ Property Code 2464	⁵ Property Name STATE A		⁶ Well Number 77
⁷ OGRID No. 298299	⁸ Operator Name CROSS TIMBERS ENERGY, LLC		⁹ Elevation 6653'

" Surface Location

U/I. or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
G	2	26N	6W		1975	NORTH	1950	EAST	RIO ARriba

" Bottom Hole Location If Different From Surface

U/I. or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County

¹⁰ Dedicated Acres 160 1/4 75	¹¹ Joint or Infill 1	¹² Consolidation Code	¹³ Order No. NSP-2009	OIL CONS. DIV DIST. 3
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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. OCT 28 2014

LAT. 36.51832°N (NAD 27) LONG. 107.43397°W (NAD 27)	1975'		1950'	" 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 in a voluntary pooling agreement or a compulsory pooling order previously entered by the division. <i>Robbie A. Grigg</i> 9/22/14 Signature Date ROBBIE A GRIGG Printed Name rgrigg@mspartners.com E-mail Address
	"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. 6/7/2007 Date of Survey			
	Signature and Seal of Professional Surveyor:			
	ROY A BUSH 8894 Certificate Number			

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Form C-102
Revised August 1, 2011
Submit one copy to appropriate
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☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-039-30280		² Pool Code 72319		³ Pool Name BLANCO-MESAVERDE (PRORATED GAS)	
⁴ Property Code 2464		⁵ Property Name STATE A			⁶ Well Number 77
⁷ OGRID No. 298299		⁸ Operator Name CROSS TIMBERS ENERGY, LLC			⁹ Elevation 6653'

" Surface Location

UL or lot no.	Section	Township	Range	Lot Ida	Feet from the	North/South line	Feet from the	East/West line	County
G	2	26N	6W		1975	NORTH	1950	EAST	RIO ARriba

" 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
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¹⁰ Dedicated Acres 320	¹¹ Joint or Infill I	¹² Consolidation Code	¹³ Order No.	OIL CONS. DIV DIST. 3
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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.

LAT. 36.51832°N (NAD 27) LONG. 107.43397°W (NAD 27) 1975' 1950'	" 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. <i>Robbie A. Grigg</i> 9/22/14 Signature Date ROBBIE A GRIGG Printed Name rgrigg@mpartners.com E-mail Address
	"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. 6/7/2007 Date of Survey Signature and Seal of Professional Surveyor:
	ROY A BUSH 8894 Certificate Number

TUBULARS:

Surface Casing: 9⁵/₈", 36# @ 373'. Cmt'd w/165 sx. Circ 17 sx to surf.

Production Casing: 5¹/₂", 17#, K-55, LTC (surf-997' & 6,673'-7,680') & 15.5#, K-55, LTC (997'-6,673') @ 7,680'. Cmt'd 1st stg w/312 sx 50/50 Poz W/8% gel, 10% gypsum & 1/4#/sx CF & 100 sx type V cmt. Circ 90 sx cmt to DV tool. Min Drift: 4.892". Min Internal Yield: 4,810 psig.

DV Tool: 4,681' (WL depth). Cmt'd 2nd stg w/484 sx type V cmt w/3% SMS & 3#/sx Gilsonite. Circ 114 sx cmt to surf.

Tubing: 242 jts 2³/₈", 4.7#, J-55, EUE, 8rd tbg & SN. Landed @ 7,602'. SN @ 7,601'.

Current Perforations: 7,448', 49', 54', 58', 59', 60', 62', 66', 71', 7,518', 51', 59', 67', 71', 74', 98', 99', 7,603', 04', 05', 06', 11', 12', 13', 14', 15', 16', 18', 28', 29', 30', 31', 32', 43', 44', 45', 46', 48', 49' & 50'.

Proposed Perforations:

1. U. Mancos 6,751', 55', 58', 60', 92', 95', 98', 6,825', 29', 45', 49', 54', 56', 64', 69, 6,942', 43', 50', 53' & 55' (204' OA, 20 holes).
2. Point Lookout: 5,440', 44', 47', 52', 59', 65', 68', 77', 79', 88', 92', 5,523', 31', 40', 48', 54', 57', 65', 67' & 75' (135' OA, 20 holes).
3. Cliffhouse: 5,312'-5,336' (24', 25 holes) &
4. Cliffhouse: 4,914'-4,952' (38', 39 holes).

TD: 7,680'

PBTD: 7,649'.

Workover
State A #77

State A #77

**1,975' FNL & 1,950' FEL Unit G, SEC 2, T-26-N, R-6-W
36.51833° N, 107.43457° W (NAD 83)**

OIL CONS. DIV DIST. 3

30-039-30280

OCT 28 2014

Rio Arriba Co, NM

Existing Wellbore Diagram

Schematic & History

STATE A-77

30039302800000

Rio Arriba

SEPA 5-DIGIT

SEPA 5-DIGIT

EAST DAKOTA

T26H-R36W-S02

T26N

R36W

S02

36° 31' 5.736" N

107° 26' 2.364" W

Section

Survey

Block

Township

Range

Section

Latitude

Longitude

Original KB Elevation (ft)

Ground-Corrected Ground Elevation (ft)

CS Ground Distance (ft)

Spud Date

8/10/2007

6,656.00

6,653.00

13.00

Vertical - Original Hole, 5/11/2014 4:29:31 PM

Vertical schematic (actual)

MD (ftKB)

TVD (ftKB)

Incl (°)

Casing Joints: 95/8
26.00; 8.521; 13.0
373.0; 8/11/2007

SURFACE: 12 1/4
13.0-373.0

Surface Cement: 13.0-373.0
8/11/2007

Casing Joints: 5 1/2
17.00; K-55; 4.832;
13.0-597.1

Casing Joints: 5 1/2
15.50; K-55; 4.950;
597.1-4,679.1

PROD1: 7 7/8; 373.0-
7,680.0

Stage Tool: 5 1/2;
15.50; K-55; 4.950;
4,679.1-4,682.0

Casing Joints: 5 1/2
15.50; K-55; 4.950;
4,682.0-6,667.0

Marker Joint: 5 1/2;
15.50; K-55; 4.950;
6,667.0-6,673.0

Casing Joints: 5 1/2
17.00; K-55; 4.832;
6,673.0-7,677.2

Perforated: 7,448.0-
7,650.0; 9/20/2007

Perf OK @ 7,445;
7445; 7454; 7458;
7459; 7460; 7462;
7466; 7471; 7515;
7531; 7539; 7567;
7571; 7574; 7585;
7595; 7605; 7604;
7605; 7606; 7611;
7612; 7613; 7614;
7615; 7616; 7618;
7628; 7629; 7630;
7631; 7632; 7643;
7644; 7645; 7646;
7648; 7649; 7650;
W/LSPF

N2 Energized Frac:
7,448.0-7,650.0;
9/21/2007; Frac OK
perfs fr 7445-7650
divn stg w/83,303 gal
65Q N2 X-linked gel &
127,900w 20/40 ss
AIR 37.5M; ATP 3455
psig. MTO 4585 psig
(transducer error)
ISIP 2120 psig. 5" SIP
1788 psig. 10" SIP
1637 psig. 15" SIP
1527 psig. Went to
flush when pressure
jumped to 4,365 psig.
This was a
malfunction of the
transducer.

Float Shoe: 5 1/2;
17.30; K-55; 0.000;
7,677.2-7,690.0

Cement: 4,685.0
7,680.0; 8/22/2007

TD - Original Hole:
7,680.0

Production Casing
Cement: 13.0-7,680.0;
8/22/2007

PSTD: 7,690.0

Seating: 2 3/8; 4.70; C-
50; 13.0-7,601.0

Seat Nipple: 2 3/8;
4.70; J-55; 7,601.0-
7,602.0

Jobs

Type

Start Date

Summary

Drilling Original & Initial Completion

8/9/2007

RWTP

11/4/2008

W/LSL Operation

12/18/2008

Wellbore Sections

Section Des

Wellbore Name

Size (in)

Act Top (ftKB)

Act Strm (ftKB)

Start Date

SURFACE

Original Hole

12 1/4

13.0

373.0

Section Des

Wellbore Name

Size (in)

Act Top (ftKB)

Act Strm (ftKB)

Start Date

PROD1

Original Hole

7 7/8

373.0

7,680.0

Surface 373.0 ftKB 8/11/2007

Comment

OD (in)

WT (lb/ft)

Grade

Top (ftKB)

Strm (ftKB)

Len (ft)

Item Des

9 5/8

36.00

13.0

373.0

360.00

Casing Joints

Production 7,680.0 ftKB <Run Date?>

Comment

OD (in)

WT (lb/ft)

Grade

Top (ftKB)

Strm (ftKB)

Len (ft)

Item Des

5 1/2

17.00

K-55

13.0

997.1

984.10

Casing Joints

5 1/2

15.50

K-55

997.1

4,679.1

3,682.00

Casing Joints

5 1/2

15.50

K-55

4,679.1

4,682.0

2.90

Stage Tool

5 1/2

15.50

K-55

4,682.0

6,667.0

1,985.00

Casing Joints

5 1/2

15.50

K-55

6,667.0

6,673.0

6.00

Marker Joint

5 1/2

17.00

K-55

6,673.0

7,677.2

1,004.20

Casing Joints

5 1/2

17.00

K-55

7,677.2

7,680.0

2.80

Float Shoe

Cement Stages

Description

Top (ftKB)

Strm (ftKB)

Top Meas Meth

Comment

Surface Casing Cement

13.0

373.0

Cmt'd csg w/165 sx cmt w/2% CaCl2 & 1/4#/sx Celloflake.

Description

Top (ftKB)

Strm (ftKB)

Top Meas Meth

Comment

4,685.0

7,680.0

Visual

Cmt'd 1st stg w/312 sx 50/50 Poz w/8% gel, 10% gypsum & 1/4#/sx Celloflake. Tailed in w/100 sx Type V cmt. Circ 30 blbs cmt to surf. Cmt'd 2nd stg w/484 sx Type V w/3% SMS +3# gilsonite & 1/4#/sx Celloflake. Circ 53 blbs cmt to surf.

Description

Top (ftKB)

Strm (ftKB)

Top Meas Meth

Comment

Production Casing Cement

13.0

7,680.0

Visual

Cmt'd 1st stg w/312 sx 50/50 Poz w/8% gel, 10% gypsum & 1/4#/sx Celloflake. Tailed in w/100 sx Type V cmt. Circ 30 blbs cmt to surf. Cmt'd 2nd stg w/484 sx Type V w/3% SMS +3# gilsonite & 1/4#/sx Celloflake. Circ 53 blbs cmt to surf.

Perforations

Top (ftKB)

Strm (ftKB)

Shot Date (mm/dd/yyyy)

Date

Zone

Calculated Shot Total

7,448.0

7,650.0

1.0

9/20/2007

Dakota, Original Hole

203

DISTRICT I
1625 N. French Dr., Hobbs, N.M. 88240

DISTRICT II
611 South First, Artesia, N.M. 88210

DISTRICT III
1000 Rio Brazos Rd., Aztec, N.M. 87410

DISTRICT IV
2040 South Pacheco, Santa Fe, NM 87505

State of New Mexico
Energy, Minerals & Natural Resources Department

Form C-102
Revised October 12, 2005

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

OIL CONSERVATION DIVISION

2040 South Pacheco
Santa Fe, NM 87505

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-039-30280	Pool Code 71599	Pool Name BASIN DAKOTA
Property Code 2464	Property Name STATE A	Well Number 3 77
OGRID No. 003824	Operator Name CAULKINS OIL COMPANY	Elevation 6653'

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
G	2	26-N	6-W		1975	NORTH	1950	EAST	RIO ARriba

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
Dedicated Acres 320			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

16

	QTR. CORNER FD 3 1/4" B.C. BLM 1955		S 88-59-18 W 2614.6' (M)	SEC. CORNER FD 3 1/4" B.C. BLM 1955
		1975'		
LAT. 36.51833°N (NAD 83) LONG. 107.43457° W (NAD 83) LAT. 36.51832°N (NAD 27) LONG. 107.43397° W (NAD 27)				
		2		
				QTR. CORNER FD 3 1/4" B.C. BLM 1957

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.

Robert L. Verquer 6-28-07
Signature Date

Robert L. Verquer
Printed Name

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.

JUNE 7, 2007
Date of Survey

Signature and Seal of Professional Surveyor:

Certificate Number

