

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, 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

Form C-101
May 27, 2004

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

Submit to appropriate District Office

☐ AMENDED REPORT

APPLICATION FOR PERMIT TO DRILL, RE-ENTER, DEEPEN, PLUGBACK, OR ADD A ZONE

¹ Operator Name and Address Devon Energy Production Company, L. P. 20 North Broadway Oklahoma City, OK 73102-8260		² OGRID Number 6137
³ Property Code 3006.35	⁴ Property Name Cotton Draw Unit	⁵ API Number 30-015-36197
⁹ Proposed Pool 1 13370 Cotton Draw; Brushy Canyon		¹⁰ Proposed Pool 2

⁷ Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
C	36	24S	31E		660	North	1980	West	Eddy

⁸ Proposed 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

Additional Well Information

¹¹ Work Type Code N	¹² Well Type Code O	¹³ Cable/Rotary R	¹⁴ Lease Type Code S	¹⁵ Ground Level Elevation 3503' GL
¹⁶ Multiple No	¹⁷ Proposed Depth 9100'	¹⁸ Formation Delaware; Brushy Canyon	¹⁹ Contractor	²⁰ Spud Date 3/15/08
Depth to Groundwater 100'		Distance from nearest fresh water well		Distance from nearest surface water 1000' or more
Pit: Liner: Synthetic <input type="checkbox"/> _____ mils thick Clay <input type="checkbox"/> Pit Volume: _____ bbls Drilling Method: Fresh Water <input checked="" type="checkbox"/> Brine <input checked="" type="checkbox"/> Diesel/Oil-based <input type="checkbox"/> Gas/Air <input type="checkbox"/>				
Closed-Loop System <input checked="" type="checkbox"/>				

²¹ Proposed Casing and Cement Program

Hole Size	Casing Size	Casing weight/foot	Setting Depth	Sacks of Cement	Estimated TOC
17 1/2"	13 3/8"	48# H-40 ST&C	0' - 850' ✓	700 sx Cl C	Surface
11"	8 5/8"	32# I-55 LT&C	0' - 4000'	1800 sx Cl C	Surface
7 7/8"	5 1/2"	15.5#/17# I55	0' - 9100'	1150 sx Cl H	500' Inside

²² Describe the proposed program. If this application is to DEEPEN or PLUG BACK, give the data on the present productive zone and proposed new productive zone. Describe the blowout prevention program, if any. Use additional sheets if necessary..

1. Cement Program:

- a. 20" Conductor Cement w/ ready-mix to surface.
- b. 13 3/8" Surface Cmt to surf w/500 sx Poz (35:65 Poz, Cl C, 6% gel) w/ 2% CaCl₂ + 1/4#/sx CF + 200 sx Cl C w/2% CaCl₂ + 1/4#/sx CF.
- c. 8 5/8" Intermediate Cmt to surf w/1600 sx Poz 35:65 Poz, Cl C, 6% gel, 15% salt w/1/4#/sx CF + 200 sx Cl C w/2% CaCl₂, + 1/4#/sx CF.
- d. 5 1/2" Production Cmt 1st stg w/525 sx Silica Lite H w/3% salt, 0.6% FL 1/4#/sx CF. Cmt 2nd stg w/225 sx Poz 35:65 H 6% gel w/1/4#/sx CF + 400 sx H w/ 4% gel 5% salt 1/4#/sx CF.

²³ I hereby certify that the information given above is true and complete to the best of my knowledge and belief. I further certify that the drilling pit will be constructed according to NMOCD guidelines ☐, a general permit ☐, or an (attached) alternative OCD-approved plan ☐.

Printed name: Judy A. Barnett

Title: Regulatory Analyst

E-mail Address: Judith.Barnett@dmv.com

Date:2/14/08

Phone:405-228-8699

OIL CONSERVATION DIVISION

Approved by:

Title:

Approval Date: 3/17/08

Expiration Date: 3/17/10

Conditions of Approval Attached ☐

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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

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-015-36197	Pool Code 1337D	Pool Name Cotton Draw BRUSHY CANYON
Property Code 300635	Property Name COTTON DRAW UNIT	Well Number 111
OCRID No. 6137	Operator Name DEVON ENERGY PRODUCTION COMPANY LP	Elevation 3503'

Surface Location

UL or lot No. C	Section 36	Township 24 S	Range 31 E	Lot Idn	Feet from the 660	North/South line NORTH	Feet from the 1980	East/West line WEST	County EDDY
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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 40	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

	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 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 _____ Date _____ Judy A. Barnett 2/14/08 Printed Name Regulatory Analyst
	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. FEBRUARY 7 2008 Date Surveyed _____ Signature _____ Professional Surveyor _____
	Certificate No. Gary L. Jones 7977
	BASIN SURVEYS

Proposed Mud Circulation System:

Depth	Mud Wt	Visc	Fluid Loss	Type system
0'-850'	8.8	34-36	NC	Fresh Water
850'-4000	10.0	28	NC	Brine Water
4000'- TD	8.8	32-36	10-20	Fresh Water

The BOP will consist of a 3M system double ram type 3000 psi WP preventor w/ bag type Hydril preventor 3000 psi. All BOP's and associated equipment will be tested to 1200 psi w/ rig pump before drilling out the 8 5/8" casing shoe (70% of 48#, H-40 casing). The estimated BHP is 2900 psi and the estimated BHT is 130.

There is no known presence of H2S in this area. All personnel will be familiar with all aspects of safe operation of equipment being used to drill this well.

This location is not an NSL.

See attached C-102

See attached nearby Gas Analysis.



Laboratory Services, Inc.

2609 West Marland
Hobbs, New Mexico 88240

Telephone: (505) 397-3713

FOR: Devon Energy
P.O. Box 250
Artesia, New Mexico 88211-0250

SAMPLE: Sta. # 39033075
IDENTIFICATION Cotton Draw #90
COMPANY: Devon Energy
LEASE:
PLANT:

SAMPLE DATA: DATE SAMPLED 11/26/07
ANALYSIS DATE: 11/27/07
PRESSURE - PSIA 54
SAMPLE TEMP. °F 61
ATMOS. TEMP. °F
REMARKS: H2S = 0

GAS (XX) LIQUID ()
SAMPLED BY: Lemmons
ANALYSIS BY: Vicki McDaniel

COMPONENT ANALYSIS

COMPONENT	MOL PERCENT	GPM
Hydrogen Sulfide (H2S)	0.000	
Nitrogen (N2)	2.979	
Carbon Dioxide (CO2)	0.089	
Methane (C1)	69.307	
Ethane (C2)	12.841	3.426
Propane (C3)	8.616	2.369
I-Butane (IC4)	1.070	0.349
N-Butane (NC4)	2.606	0.820
I-Pentane (IC5)	0.684	0.250
N-Pentane (NC5)	0.735	0.266
Hexane Plus (C6+)	1.073	0.466
	100.000	7.946

BTU/CU.FT. - DRY 1372
AT 14.650 DRY 1367
AT 14.650 WET 1344
AT 14.73 DRY 1375
AT 14.73 WET 1351

MOLECULAR WT. 23.8041

SPECIFIC GRAVITY -
CALCULATED 0.820
MEASURED

Submit 3 Copies To Appropriate District
Office
District I
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87505

State of New Mexico
Energy, Minerals and Natural Resources

Form C-103
May 27, 2004

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

WELL API NO.
5. Indicate Type of Lease STATE <input checked="" type="checkbox"/> FEE <input type="checkbox"/>
6. State Oil & Gas Lease No.
7. Lease Name or Unit Agreement Name Cotton Draw Unit
8. Well Number 111
9. OGRID Number 6137
10. Pool name or Wildcat Delaware; Brushy Canyon

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.)

1. Type of Well: Oil Well <input checked="" type="checkbox"/> Gas Well <input type="checkbox"/> Other <input type="checkbox"/>
2. Name of Operator Devon Energy Production Company, LP
3. Address of Operator 20 North Broadway Oklahoma City, Oklahoma 73102-8260 (405)228-8699
4. Well Location C Unit Letter: 660 feet from the North line and 1980 feet from the West line Section 36 Township 24S Range 31E NMPM Eddy County
11. Elevation (Show whether DR, RKB, RT, GR, etc.) 3503' GL
Pit or Below-grade Tank Application <input type="checkbox"/> or Closure <input type="checkbox"/>
Pit type _____ Depth to Groundwater _____ Distance from nearest fresh water well _____ Distance from nearest surface water _____
Pit Liner Thickness: _____ mil Below-Grade Tank: Volume _____ bbls; Construction Material _____

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 ☐

OTHER: I

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 1103. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion.

Devon Energy Production L.P. requests to change the proposed cementing program to the APD.

13 3/8" Surface

Lead w/ 450 sacks (35:65) Poz (Fly Ash):Premium Plus C Cement + 0.125 lbs/sack Cello Flake + 6% bwoc Bentonite + 2% bwoc Calcium Chloride + 93.6% Fresh Water
Tail w/ 250 sacks Premium Plus C Cement + 2% bwoc Calcium Chloride + 0.125 lbs/sack Cello Flake + 56.3% Fresh Water

8 5/8" Intermediate

Lead w/1025 sacks (35:65) Poz (Fly Ash):Premium Plus C Cement + 5% bwow Sodium Chloride + 0.125 lbs/sack Cello Flake + 6% bwoc Bentonite + 107.8% Fresh Water
Tail w/300 sacks (60:40) Poz (Fly Ash):Premium Plus C Cement + 5% bwow Sodium Chloride + 0.125 lbs/sack Cello Flake + 0.4% bwoc Sodium Metasilicate + 4% bwoc MPA-1 + 64.7% Fresh Water

5 1/2" Production

Lead w/ 320 sacks (35:65) Poz (Fly Ash):Premium Plus C Cement + 3% bwow Sodium Chloride + 0.25% bwoc R-3 + 0.125 lbs/sack Cello Flake + 3 lbs/sack LCM-1 + 0.3% bwoc FL-52A + 6% bwoc Bentonite + 102.5% Fresh Water
Tail w/785 sacks (60:40) Poz (Fly Ash):Premium Plus C Cement + 1% bwow Sodium Chloride + 0.5% bwoc BA-10A + 0.1% bwoc R-3 + 0.125 lbs/sack Cello Flake + 2 lbs/sack Kol Seal + 4% bwoc MPA-1 + 61.4% Fresh Water

I hereby certify that the information above is true and complete to the best of my knowledge and belief. I further certify that any pit or below-grade tank has been/will be constructed or closed according to NMOCD guidelines ☐, a general permit ☐ or an (attached) alternative OCD-approved plan ☐.

SIGNATURE  TITLE Regulatory Analyst DATE 02/18/2008

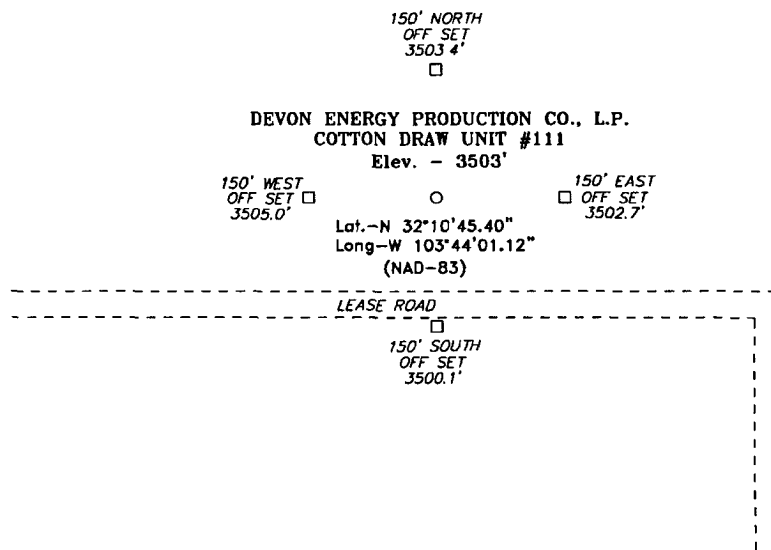
Type or print name: Judy A. Barnett E-mail address: Judith.Barnett@dmr.com Telephone No. (405) 228-8966

For State Use Only

APPROVED BY: _____ TITLE _____ DATE _____

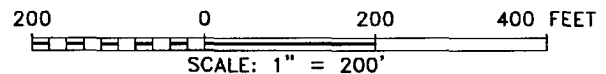
Conditions of Approval (if any): FOR RECORDS ONLY

**SECTION 36, TOWNSHIP 24 SOUTH, RANGE 31 EAST, N.M.P.M.,
EDDY COUNTY, NEW MEXICO.**



Directions to Location:

FROM MILE MARKER 19 OF STATE HWY 128, GO EAST 0.3 MILES TO CO. RD. 786, ON CO. RD. 786 GO SOUTH FOR 4.6 MILES TO CO. RD. 791, ON CO. RD. 791 GO SOUTH BY SOUTHEAST FOR 3.1 MILES TO LEASE ROAD, ON LEASE ROAD GO EAST 1.9 MILES TO COTTON DRAW WELL IN SECTION 11, THENCE NORTH 0.7 MILES, THENCE WEST 0.3 MILES, THENCE NORTH 0.3 MILES, THENCE EAST 0.7 MILES, THENCE 0.8 MILES NORTH TO PROPOSED LOCATION.



DEVON ENERGY PROD. CO., L.P.

REF: COTTON DRAW UNIT #111 / WELL PAD TOPO

THE COTTON DRAW UNIT #111 LOCATED 660' FROM THE
NORTH LINE AND 1980' FROM THE WEST LINE OF
SECTION 36, TOWNSHIP 24 SOUTH, RANGE 31 EAST,

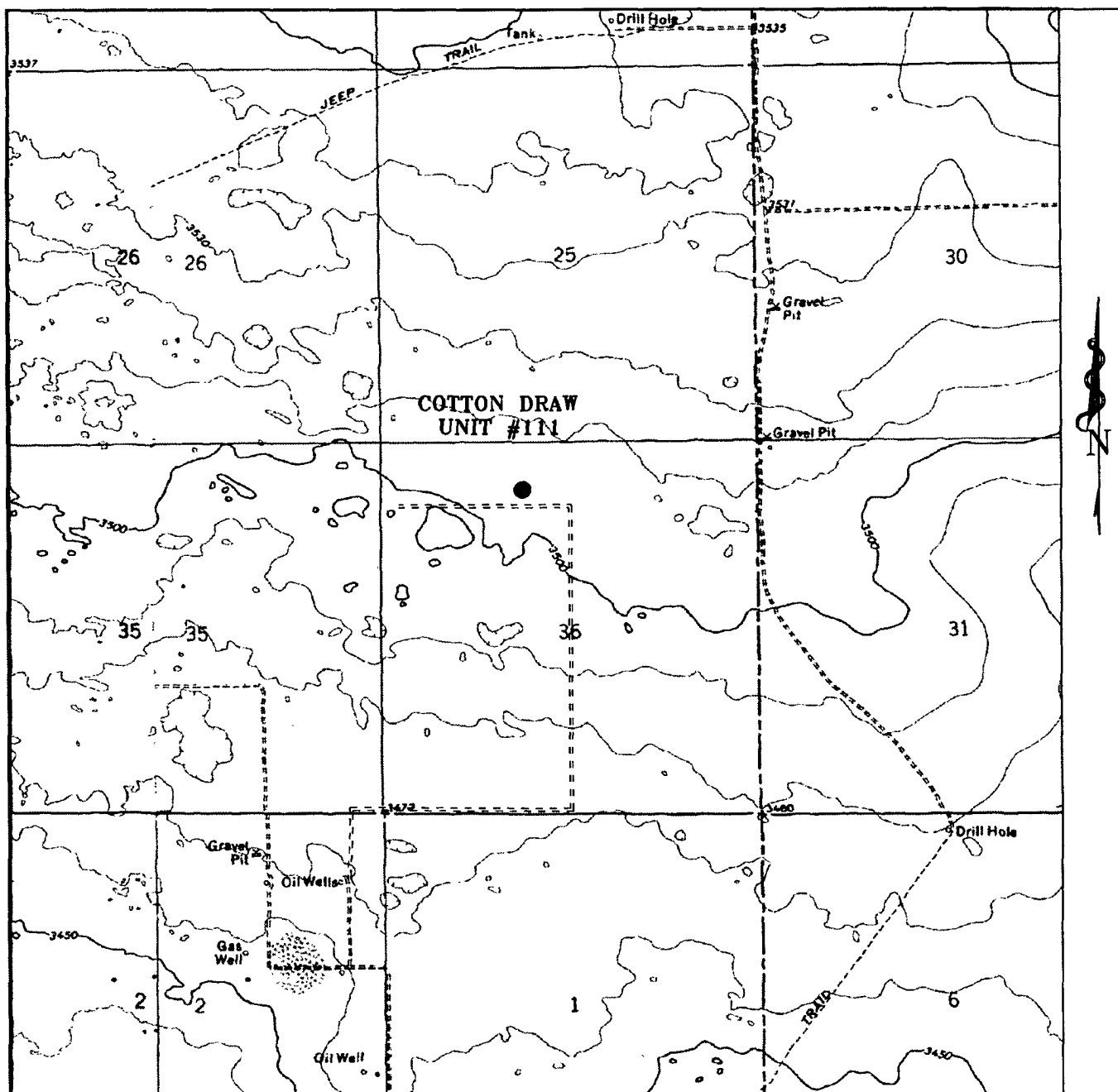
N.M.P.M., EDDY COUNTY, NEW MEXICO.

BASIN SURVEYS P.O. BOX 1786-HOBBS, NEW MEXICO

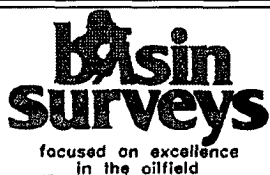
W.O. Number: 19065 Drawn By: **J. M. SMALL**

Date: 02-12-2008 Disk: 19065W JMS

Survey Date: 02-07-2008 Sheet 1 of 1 Sheets



COTTON DRAW UNIT #111
 Located at 660' FNL AND 1980' FWL
 Section 36, Township 24 South, Range 31 East,
 N.M.P.M., Eddy County, New Mexico.



P.O. Box 1786
 1120 N. West County Rd.
 Hobbs, New Mexico 88241
 (505) 393-7316 - Office
 (505) 392-3074 - Fax
 basinsurveys.com

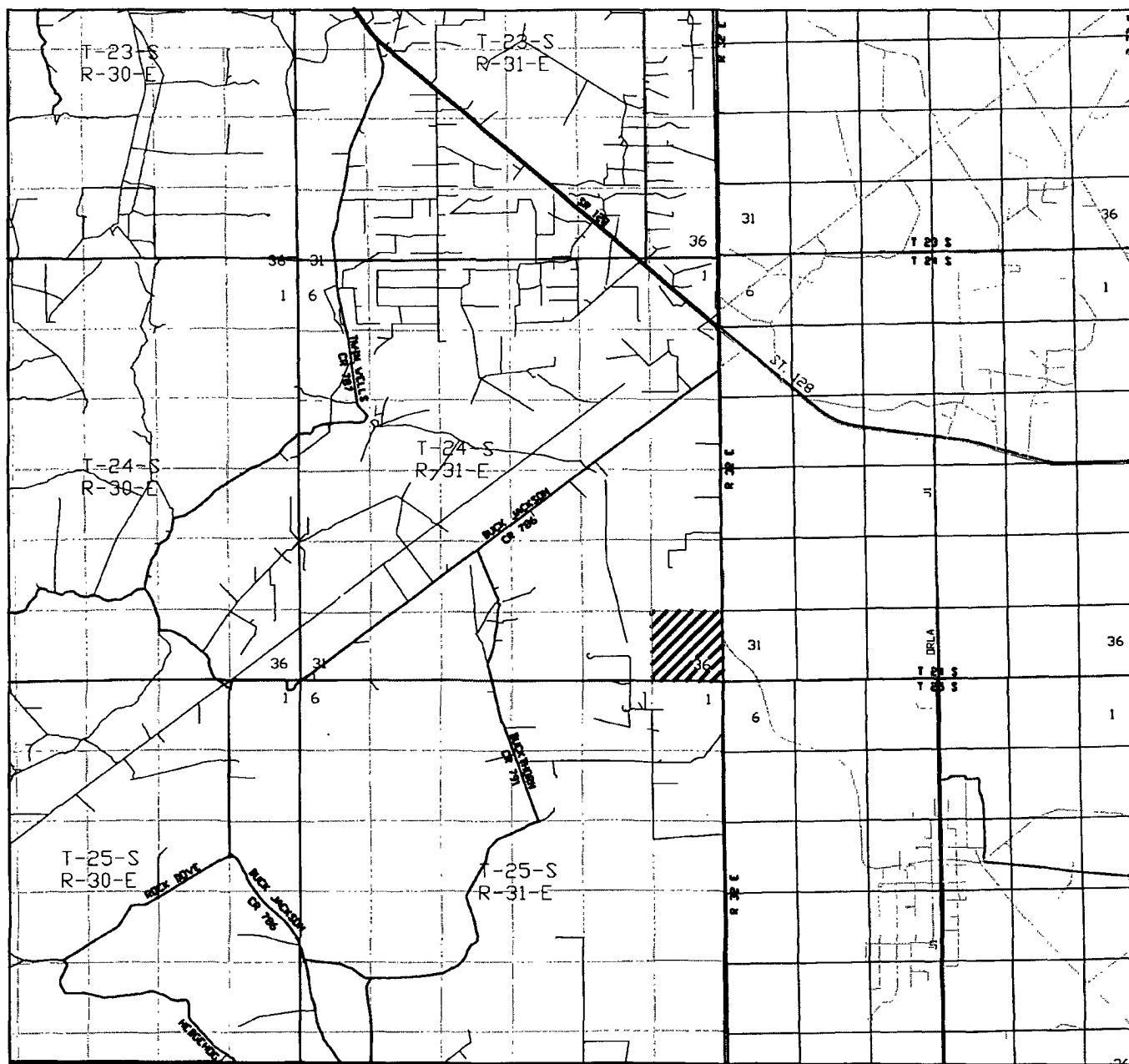
W.O. Number: JMS 19065T

Survey Date: 02-07-2008

Scale: 1" = 2000'

Date: 02-12-2008

**DEVON ENERGY
 PROD. CO., L.P.**



COTTON DRAW UNIT #111

Located at 660' FNL AND 1980' FWL
Section 36, Township 24 South, Range 31 East,
N.M.P.M., Eddy County, New Mexico.



focused on excellence
in the oilfield

P.O. Box 1786
1120 N. West County Rd.
Hobbs, New Mexico 88241
(505) 393-7316 - Office
(505) 392-3074 - Fax
basinsurveys.com

W.O. Number: JMS 19065TR

Survey Date: 02-07-2008

Scale: 1" = 2 MILES

Date: 02-12-2008

DEVON ENERGY
PROD. CO., L.P.