

DATE IN 7-29-11	SUSPENSE	ENGINEER DB	LOGGED IN 8.1.11	TYPE NSL	APP NO 112/350/66
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ABOVE THIS LINE FOR DIVISION USE ONLY

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



Devon
Block Mamba 15
st Com #21

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

Application Acronyms:

[NSL-Non-Standard Location] [NSP-Non-Standard Proration Unit] [SD-Simultaneous Dedication]
[DHC-Downhole Commingling] [CTB-Lease Commingling] [PLC-Pool/Lease Commingling]
[PC-Pool Commingling] [OLS - Off-Lease Storage] [OLM-Off-Lease Measurement]
[WFX-Waterflood Expansion] [PMX-Pressure Maintenance Expansion]
[SWD-Salt Water Disposal] [IPI-Injection Pressure Increase]
[EOR-Qualified Enhanced Oil Recovery Certification] [PPR-Positive Production Response]

[1] **TYPE OF APPLICATION - Check Those Which Apply for [A]**

- [A] Location - Spacing Unit - Simultaneous Dedication
☒ NSL ☐ NSP ☐ SD

Check One Only for [B] or [C]

- [B] Commingling - Storage - Measurement
☐ DHC ☐ CTB ☐ PLC ☐ PC ☐ OLS ☐ OLM

- [C] Injection - Disposal - Pressure Increase - Enhanced Oil Recovery
☐ WFX ☐ PMX ☐ SWD ☐ IPI ☐ EOR ☐ PPR

- [D] Other: Specify _____

[2] **NOTIFICATION REQUIRED TO: - Check Those Which Apply, or ☐ Does Not Apply**

- [A] ☒ Working, Royalty or Overriding Royalty Interest Owners
- [B] ☐ Offset Operators, Leaseholders or Surface Owner
- [C] ☐ Application is One Which Requires Published Legal Notice
- [D] ☐ Notification and/or Concurrent Approval by BLM or SLO
U.S. Bureau of Land Management - Commissioner of Public Lands, State Land Office
- [E] ☐ For all of the above, Proof of Notification or Publication is Attached, and/or,
- [F] ☐ Waivers are Attached

[3] **SUBMIT ACCURATE AND COMPLETE INFORMATION REQUIRED TO PROCESS THE TYPE OF APPLICATION INDICATED ABOVE.**

[4] **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.

Katie A. McDonnell
 Print or Type Name

Katie A. McDonnell
 Signature

Landman
 Title

7/29/2011
 Date

Katie McDonnell@dvn.com
 e-mail Address

2011 JUL 29 P 2:25
 RECEIVED OCS

6451



RECEIVED OCD

2011 JUL 29 P 2: 25

Devon Energy Corporation
20 North Broadway
Oklahoma City, Oklahoma 73102-8260
Fax: 405-552-8113

FAX

To: David Brooks
NMOCD

From: Katie McDonnell
Office: 405-552-8040

Fax: 505-476-3462

Date: July 29, 2011

Phone: 505-476-3450

Pages: 13 (including cover page)

Re: NSL Application

☐ Urgent

☐ For Review

☐ Please Comment

☐ Please Reply

☐ Please Recycle

• Comments:



Devon Energy Corporation
20 North Broadway
Oklahoma City, OK 73102-8260

405 235 3611 Phone
www.devonenergy.com

July 29, 2011

New Mexico Oil Conservation Division
1220 South St. Francis Drive
Santa Fe, NM 87505
Attn: David Brooks

RE: Black Mamba 15 St Com 2H
Section 15-T23S-R33E
Lea County, New Mexico

Gentlemen:

Devon Energy Production Company, L.P. ("Devon"), as Operator, intends to drill the referenced horizontal Delaware well to a total vertical depth of 9,030' with a total measured depth of 13,733'. As reflected on the attached C-102, the well has been permitted at a surface location of 150' FNL and 660' FWL with a permitted bottom hole location of 150' FSL and 1,170' FWL of Section 15. We will penetrate to top of the Delaware formation at an unorthodox location of 150' FNL and 660' FWL (surface hole location), although the highest and deepest perforations in the well will not be closer than 330' to the outer boundary of the project area.

The surface hole location and bottom hole location will be non-standard in order to maximize the length of the horizontal portion of the wellbore within the target Delaware interval. By spotting the surface hole location 150' from the section line, this allows room to build the curve and land horizontally at a standard location within the target Delaware interval. By spotting the bottom hole location 150' from the section line, this allows room to drill sufficient Rathole for casing shoe joints. Perforations in the horizontal wellbore in the target Delaware interval will be at least 330' from the section lines. With the proposed well plan, the productive interval of the horizontal wellbore within the target Delaware interval is maximized.

Inasmuch as the referenced well will penetrate the top of the Delaware formation at an unorthodox location from that permitted by the Statewide Pool Rules, Devon respectfully requests that the Commission administratively approve this application for an unorthodox location in accordance with Division Rule 104(F)(3). This unorthodox location affects the leasehold owners in Unit letter M of section 10-T23S-R33E (SHL), Unit letter N of said section 15 (BHL) and Unit Letters C and D of section 22-T23S-R33E (BHL). At the SHL, we will only be non-standard to ourselves, as Devon is the owner of 100% operating rights under the lease covering section 10-T23S-R33E. At the BHL, we will be non-standard to ourselves, as well as Trainer Partners, Ltd. Devon is the owner of 100% operating rights under the lease covering said section 15. Devon is also the operator of that portion of the Thistle Unit comprised of section 22, where Trainer Partners, Ltd. is a working interest owner. In accordance with NMOCD Rules, the affected offset working interest owner has been given notice of this application. Additionally, Devon requests Commission approval to designate a 160 acre project area consisting of four standard oil spacing units comprised of the W/2 W/2 (Unit letters D, E, L, & M) of said Section 15.

NMOCD- David Brooks

Page 2

July 29, 2011

Attached for your review you will find a land plat, a copy of the letter of notification to the affected party, a structure map covering the Top Delaware formation, a State of New Mexico form C-102, and a Well Profile Planning Report prepared by Cudd Drilling & Measurement Services.

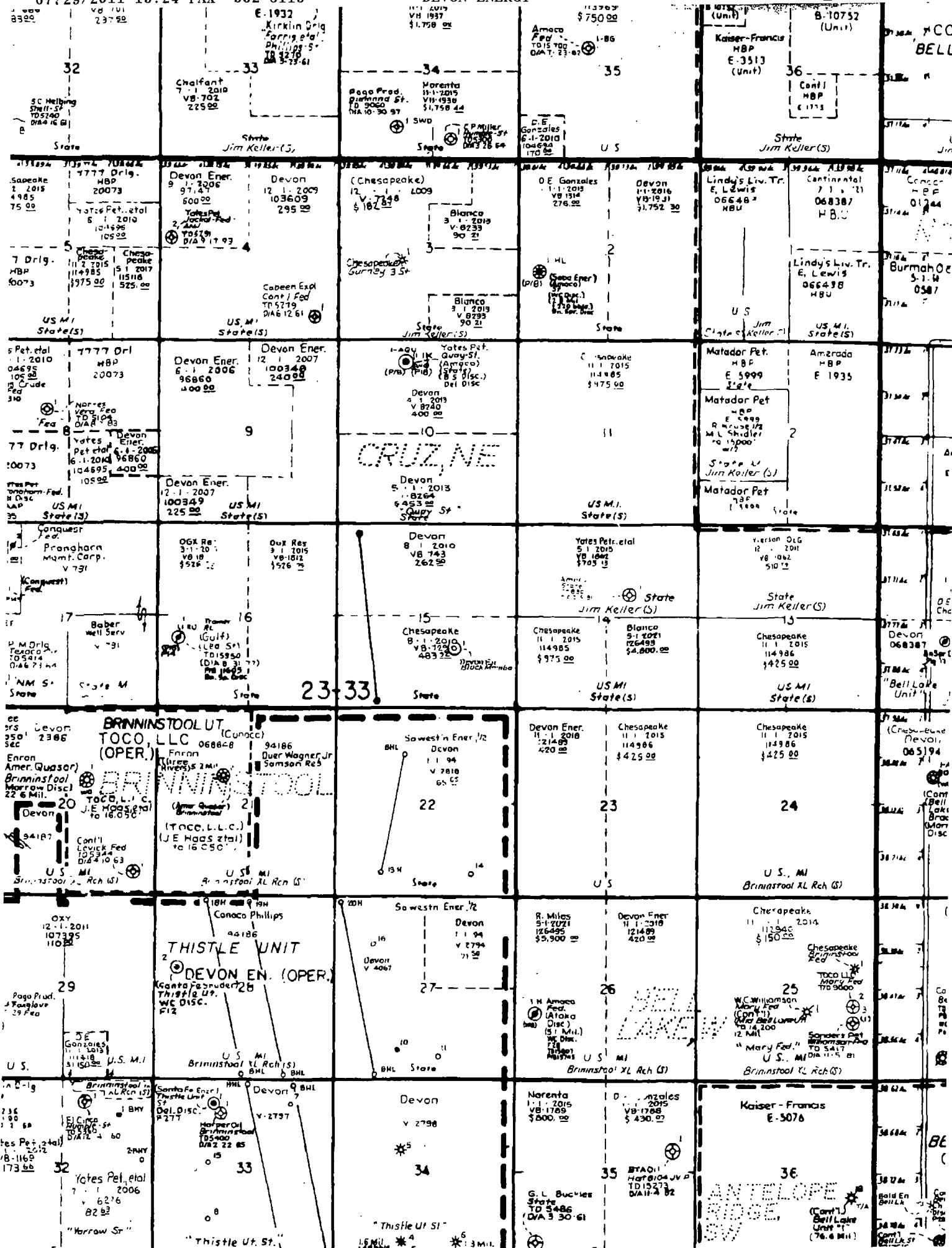
Feel free to contact the undersigned at (405)552-8040 if there are any concerns or questions regarding this application.

Yours very truly,

DEVON ENERGY PRODUCTION COMPANY, L.P.

A handwritten signature in black ink that reads "Katie A. McDonnell". The signature is written in a cursive, flowing style.

Katie A. McDonnell
Landman





Devon Energy Corporation
20 North Broadway
Oklahoma City, OK 73102-8260

405 235 3611 Phone
www.devonenergy.com

July 29, 2011

Attn: Randall Trainer
Trainer Partners, Ltd.
P.O. Box 3778
Midland, TX 79702

Re: Black Mamba 15 St Corn 2H
Section 15-T23S-R33E
Lea County, NM

30-025-40173

Gentlemen:

Attached you will find Devon Energy Production Company, L.P.'s administrative application for approval of an unorthodox well location covering the referenced well. Our records indicate that Trainer Partners, Ltd. as a working interest owner in that portion of the Thistle Unit, located in Section 22-T23S-R33E is an affected owner of an offset spacing unit and is entitled to notice of this application in accordance with Division Rule 104(f). In accordance with NMOCD Rules, objections to this application must be filed with the New Mexico Oil Conservation Division within 20 days from the date the OCD receives the application. If you have no objection to this application, please so indicate by signing and returning one copy of this letter to the undersigned via facsimile to 405-552-8113.

If there are any questions or if additional information is required, feel free to call me at (405) 552-8040.

Yours very truly,

DEVON ENERGY PRODUCTION COMPANY, L.P.

Katie A. McDonnell

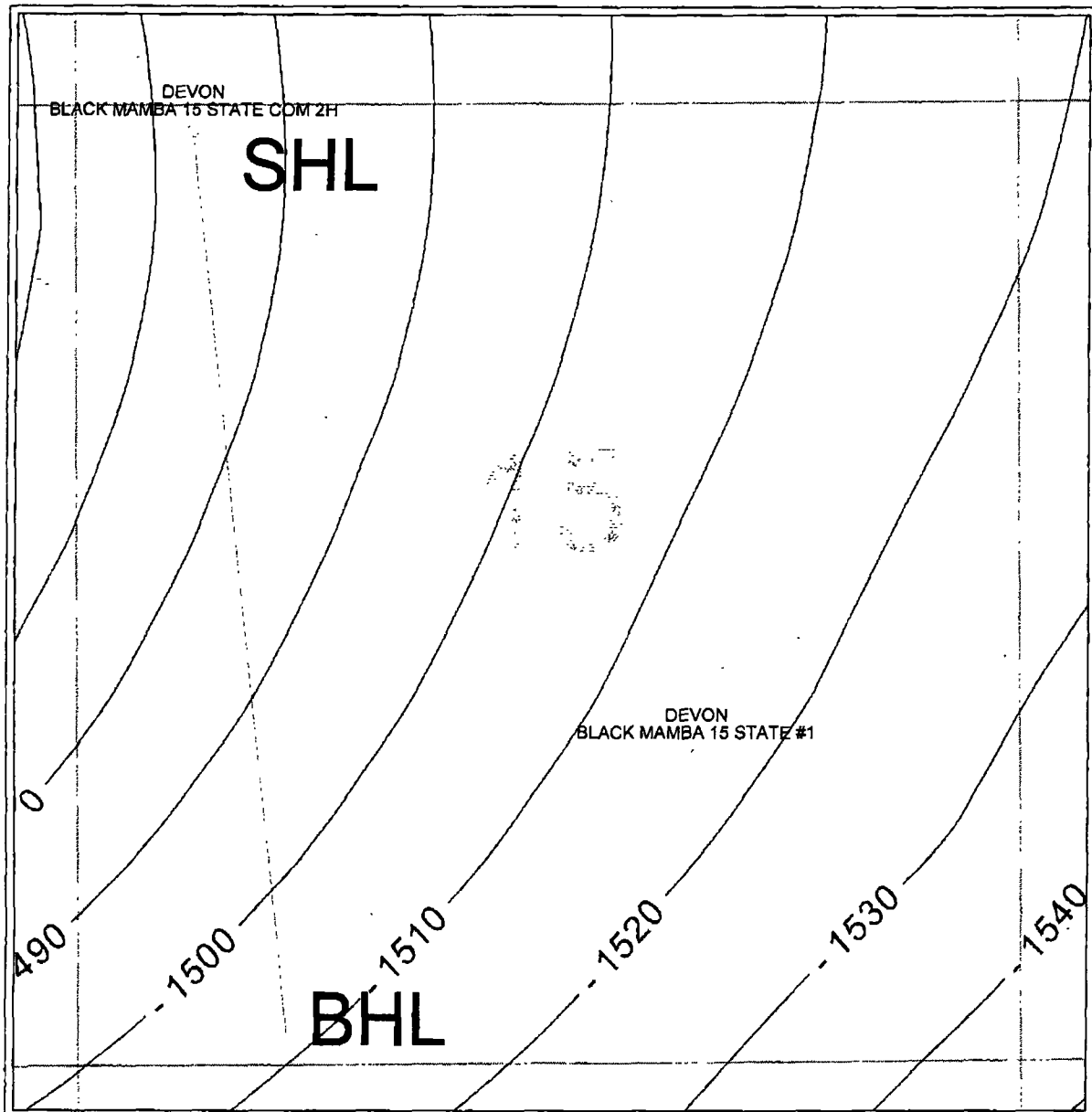
Katie A. McDonnell
Landman

Trainer Partners, Ltd. has no objection to this administrative application for unorthodox location.

By: _____

Title: _____

Date: _____



PETRA 6/27/2011 9:48:58 AM

Devon Energy

Black Mamba 15 State Com 2H

Non-Standard Location

Structure - Top Delaware

0 1,000
FEET

District I

1625 N. French Dr., Hobbs, NM 88240
Phone:(505) 393-6161 Fax:(505) 393-6720

District II

1301 W. Grand Ave., Artesia, NM 88210
Phone:(505) 748-1283 Fax:(505) 748-8720

District III

1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6176

District IV

1220 S. St Francis Dr., Santa Fe, NM 87503
Phone:(505) 476-3470 Fax:(505) 476-3482

State of New Mexico
Energy, Minerals and Natural Resources

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

Form C-102
Permit 121547

WELL LOCATION AND ACREAGE DEDICATION PLAT

1. API Number 50-025-40173	2. Pool Code 96724	3. Pool Name CRUZ DELAWARE, NORTHEAST
4. Property Code 38639	5. Property Name BLACK MAMBA 15 STATE COM	6. Well No. 002
7. OGRID No. 6137	8. Operator Name DEVON ENERGY PRODUCTION COMPANY, LP	9. Elevation 3699

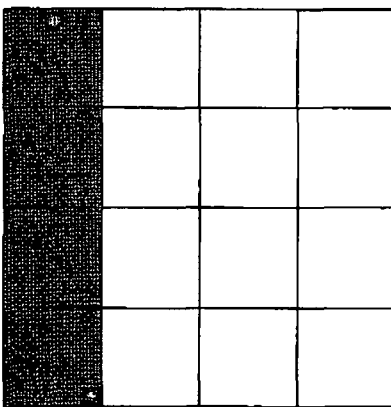
10. Surface Location

UL - Lot	Section	Township	Range	Lot Ida	Feet From	N-S Line	Feet From	E-W Line	County
D	15	23S	33E		150	N	660	W	LEA

11. Bottom Hole Location If Different From Surface

UL - Lot	Section	Township	Range	Lot Ida	Feet From	N-S Line	Feet From	E-W Line	County
M	15	23S	33E	M	150	S	1170	W	LEA
12. Dedicated Acres 160.00		13. Joint or Infill		14. Consolidation Code		15. 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(s) 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.	
	E-Signed By: Randy Bolles Title: Manager, Regulatory Affairs Date: 5/26/2011	
	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.	
	Surveyed By: Filimon Jaramillo Date of Survey: 4/15/2011 Certificate Number: 12797	



Project: Lea Co. New Mexico (Nad 83)
Site: Black Mamba 15 State Com #2H
Well: Black Mamba 15 State Com #2H
Wellbore Lateral #1
Design Design #1



SECTION DETAILS

Sec	MD	Inc	Adj	TVD	+N/S	+E/W	DLeg	TFace	VSec	Target
1	8360.59	0.00	0.00	8360.59	0.00	0.00	0.00	0.00	0.00	
2	8368.79	86.22	173.91	8569.50	-55.19	59.91	10.00	173.91	565.18	
4	13733.17	86.22	173.91	9030.00	-480.50	531.03	0.00	0.00	5009.13	PEHL - TD (BM15SC#2H)

WELLBORE TARGET DETAILS (MAP COORDINATES AND LAT/LONG)

Name	TVD	+N/S	+E/W	Nothing	Eastng	Latitude	Longitude	Shape
PEHL - TD (BM15SC#2H)	9030.00	-480.50	531.03	47285102	178127	32° 17' 52.30" N	103° 33' 54.18" W	Point

ANNOTATIONS

TVD	MD	Annotation
8360.59	8360.59	KCP - Build 10/10/07
8368.79	8368.79	EOC - Hole 1 01/22 @ A 173.91'

PROJECT DETAILS

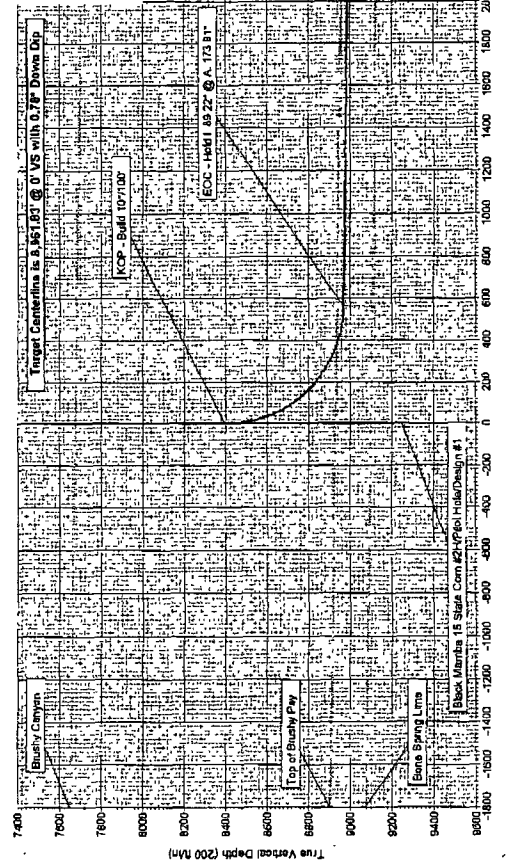
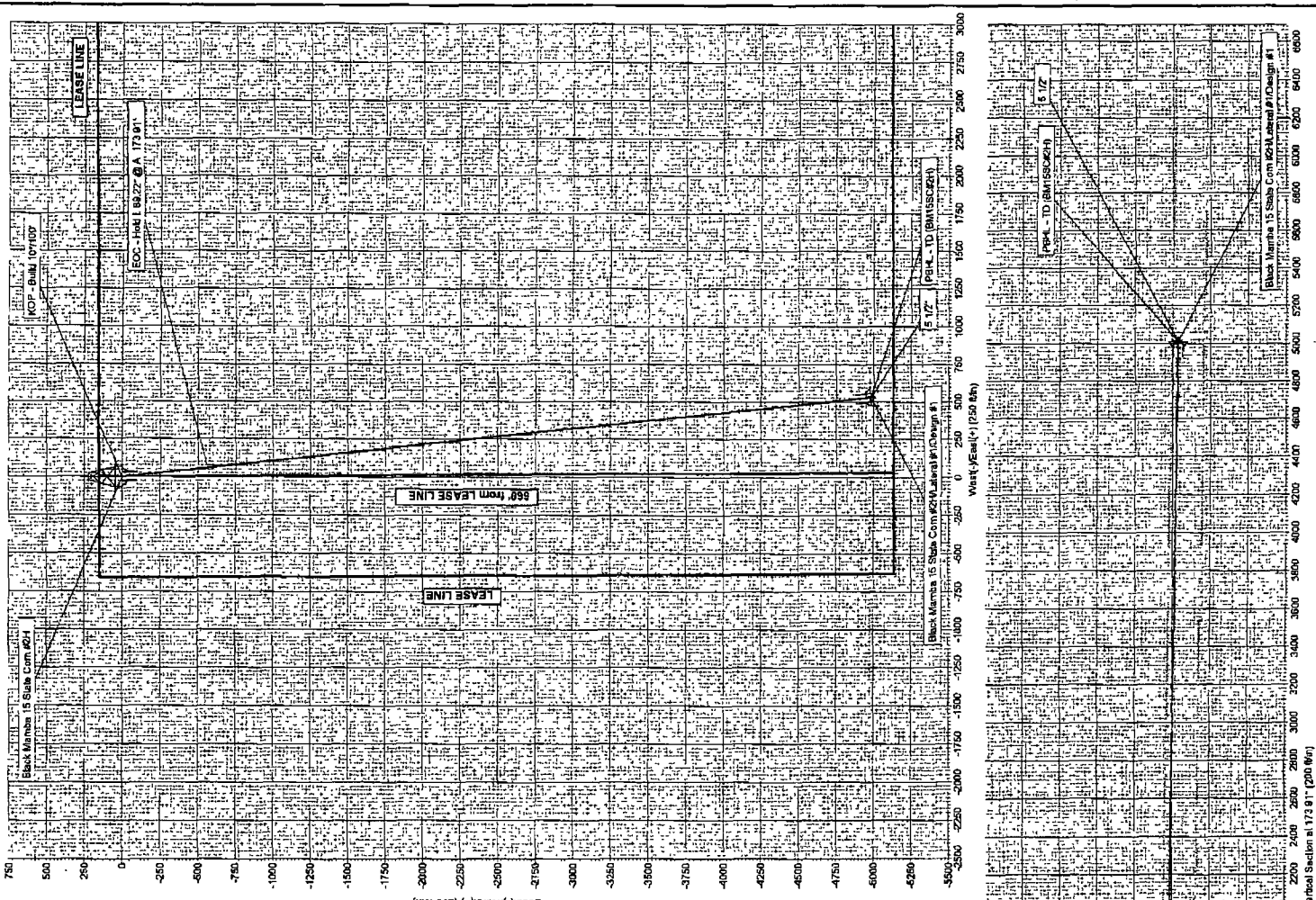
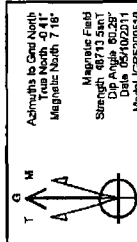
Lea Co. New Mexico (Nad 83)
Coordinate System: US State Plane 1983
Datum: North American Datum 1983
Ellipsoid: GRS 1980
Zone: New Mexico Easting Zone
System Datum: Mean Sea Level

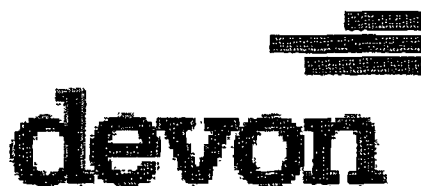
WELL DETAILS

Well	Original Level	Original Level
WELL @ 3718 001 (Original Well Elev)		
+N/S	Nothing	Latitude
0.00	477831.01	32° 19' 41.684" N
+E/W	Nothing	Longitude
0.00	778106.67	103° 33' 59.932" W
		Stat

Plan, Design #1 (Black Mamba 15 State Com #2H Lateral #1)

Created By	Mike Stetley	Date	15.51, May 10 2011
Checked		Date	
Reviewed		Date	
Approved		Date	





Devon Energy Production Co, LP

Lea Co., New Mexico (Nad 83)

Black Mamba 15 State Com #2H

Black Mamba 15 State Com #2H

Lateral #1

Plan: Design #1

Standard Survey Report

10 May, 2011





Cudd Drilling & Measurement Services

Survey Report



Company:	Devon Energy Production Co, LP	Local Co-ordinate Reference:	Site Black Mamba 15 State Com #2H
Project:	Lea Co., New Mexico (Nad 83)	TVD Reference:	WELL @ 3718.00ft (Original Well Elev)
Site:	Black Mamba 15 State Com #2H	MD Reference:	WELL @ 3718.00ft (Original Well Elev)
Well:	Black Mamba 15 State Com #2H	North Reference:	Grid
Wellbore:	Lateral #1	Survey Calculation Method:	Minimum Curvature
Design:	Design #1	Database:	EDM 2003.21 Single User Db

Project:	Lea Co., New Mexico (Nad 83)		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Eastern Zone		

Site:	Black Mamba 15 State Com #2H, Sec 15, T-23S, R-33E				
Site Position:		Northing:	477,931.91 ft	Latitude:	32° 18' 41.684 N
From:	Map	Easting:	778,196.67 ft	Longitude:	103° 33' 59.932 W
Position Uncertainty:	0.00 ft	Slot Radius:	"	Grid Convergence:	0.41 °

Well:	Black Mamba 15 State Com #2H					
Well Position	+N/-S	0.00 ft	Northing:	477,931.91 ft	Latitude:	32° 18' 41.684 N
	+E/-W	0.00 ft	Easting:	778,196.67 ft	Longitude:	103° 33' 59.932 W
Position Uncertainty		0.00 ft	Wellhead Elevation:	3,718.00 ft	Ground Level:	3,698.00 ft

Wellbore		Lateral #1			
Magnetics	Model Name	Sample Date	Declination	Dip Angle	Field Strength
			(°)	(°)	(nT)
	IGRF200510	05/10/11	7.59	60.29	48,714

Design:	Design #1			
Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	0.00
Vertical Section	Depth From (TVD)	+N/-S	+E/-W	Direction
	(ft)	(ft)	(ft)	(°)
	0.00	0.00	0.00	173.91

Survey Tool Program:		Date:	05/10/11		
From	To	Survey (Wellbore)	Tool Name	Description	
(ft)	(ft)				
0.00	8,200.00	Design #1 (Lateral #1)	NS-GYRO-MS	North sensing gyrocompassing m/s	
8,200.00	13,733.17	Design #1 (Lateral #1)	CUDD MWD	MWD - Standard CUDD MWD	

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1,319.00	0.00	0.00	1,319.00	0.00	0.00	0.00	0.00	0.00	0.00
Rustler									
1,808.00	0.00	0.00	1,808.00	0.00	0.00	0.00	0.00	0.00	0.00
Top of Salt									
5,122.00	0.00	0.00	5,122.00	0.00	0.00	0.00	0.00	0.00	0.00
Btm of Salt									
5,217.00	0.00	0.00	5,217.00	0.00	0.00	0.00	0.00	0.00	0.00
Delaware									
5,350.00	0.00	0.00	5,350.00	0.00	0.00	0.00	0.00	0.00	0.00
9 5/8"									



Cudd Drilling & Measurement Services

Survey Report



Company: Devon Energy Production Co, LP
Project: Lea Co., New Mexico (Nad 83)
Site: Black Mamba 15 State Com #2H
Well: Black Mamba 15 State Com #2H
Wellbore: Lateral #1
Design: Design #1

Local Co-ordinate Reference: Site Black Mamba 15 State Com #2H
TVD Reference: WELL @ 3718.00ft (Original Well Elev)
MD Reference: WELL @ 3718.00ft (Original Well Elev)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: EDM 2003.21 Single User Db

Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N-S (ft)	+E-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Bld Rate (°/100ft)	Turn Rate (°/100ft)
6,095.00	0.00	0.00	6,095.00	0.00	0.00	0.00	0.00	0.00	0.00
Cherry Canyon									
7,675.00	0.00	0.00	7,675.00	0.00	0.00	0.00	0.00	0.00	0.00
Brushy Canyon									
8,398.59	0.00	0.00	8,398.59	0.00	0.00	0.00	0.00	0.00	0.00
KOP - Build 10°/100'									
9,097.00	70.04	173.91	8,935.14	-376.25	40.01	377.38	10.00	10.00	0.00
Top of Brushy Pay									
8,288.79	89.22	173.91	8,969.50	-561.97	59.91	565.18	10.00	10.00	0.00
EOC - Hold 1:89.22° @ A: 173.91°									
13,733.17	89.22	173.91	9,030.00	-4,880.90	531.03	5,008.12	0.00	0.00	0.00
5 1/2" - PBHL - TD (BM15SC#2H)									

Design Targets

Target Name	Hit/Miss Target Shape	Dip Angle (°)	Dip Dir (°)	TVD (ft)	+N-S (ft)	+E-W (ft)	Northing (ft)	Easting (ft)	Latitude	Longitude
PBHL - TD (BM15SC#2H)	- plan hits target center - Point	0.00	0.00	9,030.00	-4,980.90	531.03	472,951.02	778,727.70	32° 17' 52.361 N	103° 33' 54.161 W

Casing Points

Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (in)	Hole Diameter (in)
5,350.00	5,350.00	9 5/8"	9-5/8	12-1/4
13,733.17	9,030.00	5 1/2"	5-1/2	8-3/4

Formations

Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
1,319.00	1,319.00	Rustler		0.78	173.91
1,808.00	1,808.00	Top of Salt		0.78	173.91
5,122.00	5,122.00	Btm of Salt		0.78	173.91
5,217.00	5,217.00	Delaware		0.78	173.91
6,095.00	6,095.00	Cherry Canyon		0.78	173.91
7,675.00	7,675.00	Brushy Canyon		0.78	173.91
9,097.00	8,930.00	Top of Brushy Pay		0.78	173.91
	9,099.00	Bone Spring Lime		0.78	173.91



Cudd Drilling & Measurement Services

Survey Report



Company: Devon Energy Production Co, LP
Project: Lea Co., New Mexico (Nad 83)
Site: Black Mamba 15 State Com #2H
Well: Black Mamba 15 State Com #2H
Wellbore: Lateral #1
Design: Design #1

Local Co-ordinate Reference: Site Black Mamba 15 State Com #2H
TVD Reference: WELL @ 3718.00ft (Original Well Elev)
MD Reference: WELL @ 3718.00ft (Original Well Elev)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: EDM 2003.21 Single User Db

Plan Annotations

Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
8,396.59	8,398.59	0.00	0.00	KOP - Build 10"/100'
9,288.79	8,969.50	-561.97	58.91	EOC - Hold I: 89.22° @ A: 173.91°

Checked By: _____

Approved By: _____

Date: _____