

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 August 1, 2011

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

WELL API NO. 30-025-40173
5. Indicate Type of Lease STATE ☒ FEE ☐
6. State Oil & Gas Lease No.
7. Lease Name or Unit Agreement Name Black Mamba 15 state Com
8. Well Number 2H
9. OGRID Number 6137
10. Pool name or Wildcat 96724 Cruz; Delaware Northeast
11. Elevation (Show whether DR, RKB, RT, GR, etc.) 3699' GL

SUNDRIES 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 ☒ Gas Well ☐ Other ☐

2. Name of Operator
Devon Energy Production Co., LP

3. Address of Operator
333 W. Sheridan Avenue, Oklahoma City, OK 73102

4. Well Location
Unit Letter 6V : 150 feet from the North line and 660 feet from the West line
Section 15 Township 23S Range 33E NMPM Lea County

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 ☐

SUBSEQUENT REPORT OF:

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

OTHER: ☐

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

Devon Energy Production Co, L.P. respectfully requests to modify the pilot hole depth (9,249' TVD to 12,659' TVD) and plug-back cement volumes (below). In addition the target reservoir, originally planned for the Delaware (8,970' TVD) and is also requested to be changed to the 2nd Bone Spring (11,000' TVD). Please see the attachments for additional information.

Pilot Hole

Original TD: 9249'

Proposed TD: 12,659'

Spud Date:

Rig Release Date:

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

SIGNATURE Melanie Crawford TITLE Regulatory Analyst DATE 9/28/12

Type or print name: Melanie Crawford E-mail address: melanie.crawford@dmr.com PHONE:

For State Use Only

APPROVED BY: [Signature] TITLE Petroleum Engineer DATE OCT 02 2012

Conditions of Approval (if any).

Pilot Hole Whipstock Plug back:

Original: A Whipstock with ~1,100' of 2 7/8" tubing tailpipe will be cemented in place at ~8200'. The plug back cement will be 530 sacks.

Proposed: The proposed whipstock setting depth is ~10,427' with 800' of 2-7/8 tubing. The proposed plug back procedure is as follows:

8-3/4" Pilot Hole	10,427 - 12659 ft (MD)
Inner Diameter	8.750 in
Job Excess	30 %

Cement Plug 12159-12659 ft (MD)

Plug 1

Fluid 1: Mix and pump 270 sks

PlugCem – WSH

0.3 % HR-601 (Retarder)

Fluid Weight	17 lbm/gal
Slurry Yield:	1.01 ft ³ /sk
Total Mixing Fluid:	3.94 Gal/sk
Top of Fluid:	12159 ft
Calculated Fill:	500 ft
Volume:	48.34 bbl
Calculated Sacks:	268 sks
Proposed Sacks:	270 sks

Cement Plug 11659-12159 ft (MD)

Plug 2

Fluid 1: Mix and pump 270 sks

PlugCem – WSH

0.3 % HR-601 (Retarder)

Fluid Weight	17 lbm/gal
Slurry Yield:	1.01 ft ³ /sk
Total Mixing Fluid:	3.94 Gal/sk
Top of Fluid:	11659 ft
Calculated Fill:	500 ft
Volume:	48.34 bbl
Calculated Sacks:	268 sks
Proposed Sacks:	270 sks

Cement Plug 10247-11659 ft (MD)

Plug 3

Fluid 1: Mix and pump 410 sks

PlugCem – H

0.4 % CFR-3 (Dispersant)

0.1 % HR-601 (Retarder)

Fluid Weight	15.60 lbm/gal
Slurry Yield:	1.19 ft ³ /sk
Total Mixing Fluid:	5.37 Gal/sk
Top of Fluid:	10247 ft
Calculated Fill:	1412 ft
Volume:	105.02 bbl

Casing:**Original:**

Type	Hole Size	Casing Type	Casing Weight/ft	Setting Depth	Sacks of Cement	Estimated TOC
Surf	17.5	13.375	54.5	1380	1090	
Int1	12.25	9.625	40	5270	1570	
Prod	8.75	5.5	17	13733	1855	4700

Proposed:

Type	Hole Size	Casing Type	Casing Weight/ft	Setting Depth	Sacks of Cement	Estimated TOC
Surf	17.5	13.375	54.5	1380	1090	
Int1	12.25	9.625	40	5270	1570	
Prod	8.75	5.5	17	15570	2104	4700

Cement recipe remains the same only the volume for the production string changes; 1855 sks to 2104 sks.

Geology:

<u>FORMATION</u>	MD	TVD
RUSTLER	1,291	1291
TOP SALT	1,774	1774
BASE SALT	5,094	5094
DELAWARE	5,189	5189
CHERRY CANYON	6,067	6067
BRUSHY CANYON	7,647	7647
TOP BRUSHY PAY SAND	8,954	8954
BONE SPRING LIME	9,071	9071
1st Bone Spring Sand	10,065	10065
2nd bone Spring Sd	10,645	10645
3rd Bone Spring Lm	11,655	11655
WOLFCAMP	12,459	12459
TD PILOT HOLE	12,659	12659
2nd Bone Spring Land (Heel) TVD		11100
TD HORIZONTAL HOLE (toe)		11100



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Drilling Services

Proposal



devon

BLACK MAMBA 15 STATE COM #2H

LEA COUNTY, NM

WELL FILE: PLAN 3

SEPTEMBER 28, 2012

Weatherford International, Ltd.

P.O. Box 61028

Midland, TX 79711 USA

+1.432.561.8892 Main

+1.432.561.8895 Fax

www.weatherford.com



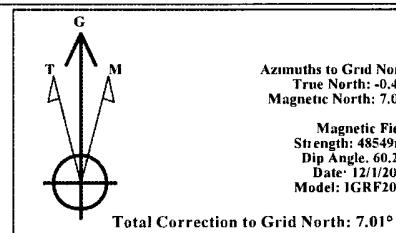
Black Mamba 15 State Com #2H
Lea County, New Mexico

SECTION DETAILS										
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	0.00	0.00	183.68	0.00	0.00	0.00	0.00	0.00	0.00	
2	10427.04	0.00	183.68	10427.04	0.00	0.00	0.00	0.00	0.00	
3	11327.04	90.00	183.68	11000.00	-571.78	-36.76	10.00	183.68	572.96	
4	15570.65	90.00	183.68	11000.00	-4806.64	-309.04	0.00	0.00	4816.56	PBHL

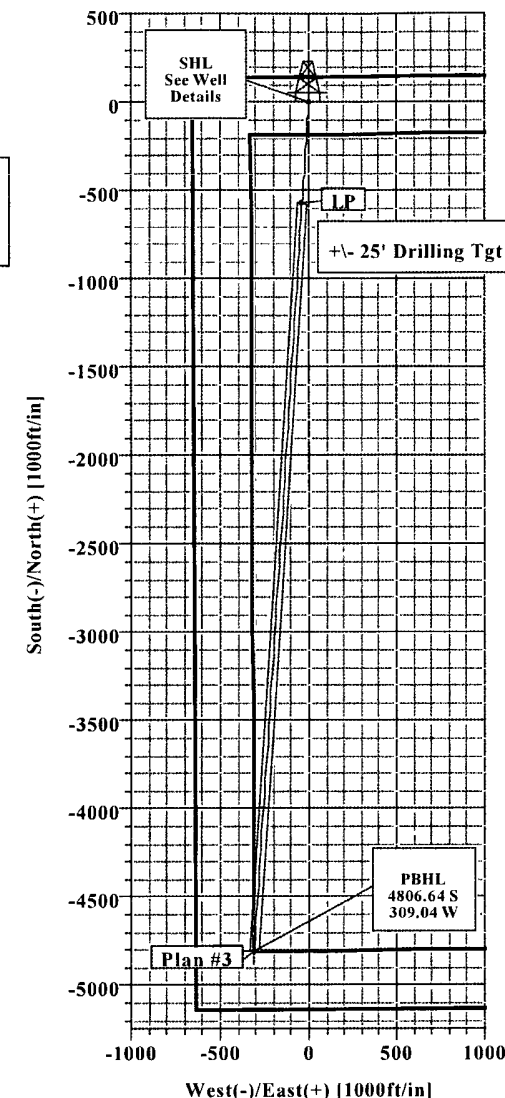
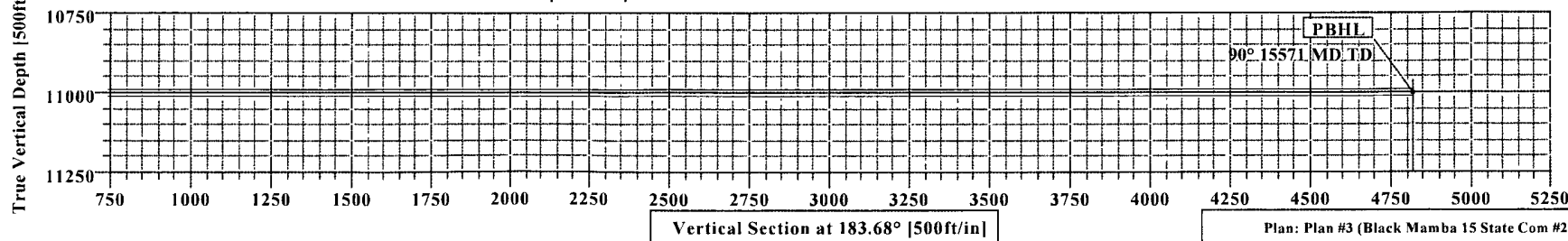
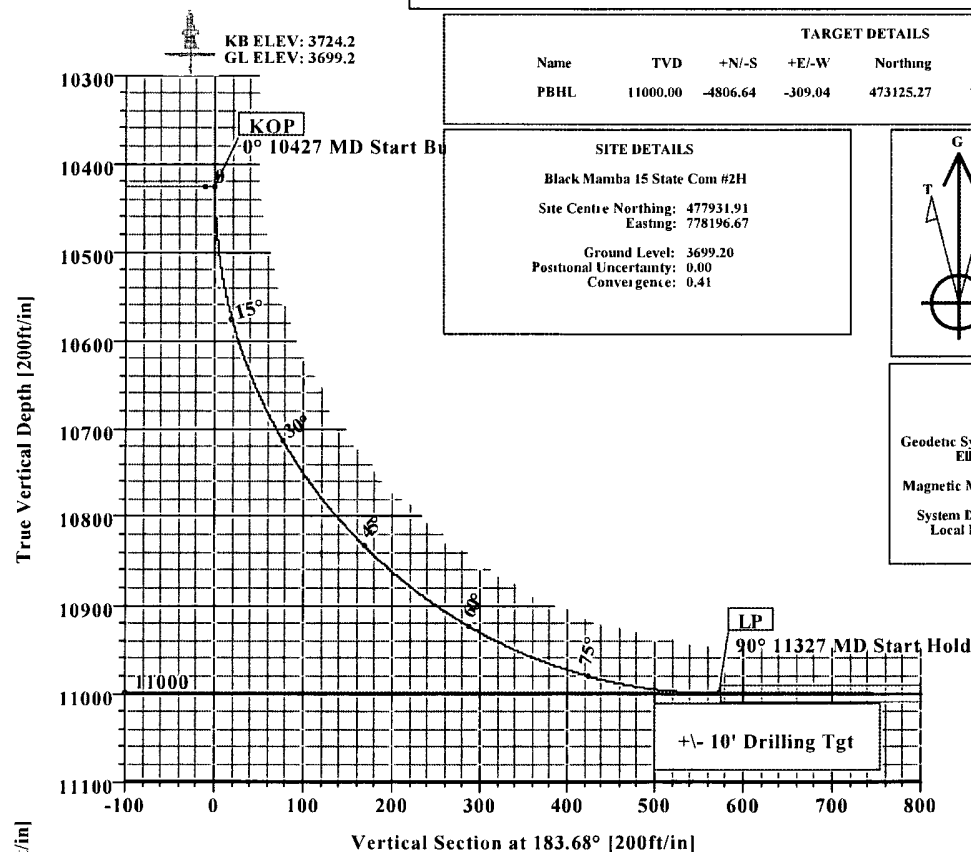
WELL DETAILS							
Name	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
Black Mamba 15 State Com #2H	0.00	0.00	477931.91	778196.67	32°18'41.675N	103°33'59.951W	N/A

TARGET DETAILS						
Name	TVD	+N/-S	+E/-W	Northing	Easting	Shape
PBHL	11000.00	-4806.64	-309.04	473125.27	777887.63	Rectangle (4242x50)

SITE DETAILS	
Black Mamba 15 State Com #2H	
Site Centre Northing:	477931.91
Easting:	778196.67
Ground Level:	3699.20
Positional Uncertainty:	0.00
Convergence:	0.41



FIELD DETAILS	
Lea County, New Mexico (NAD 83)	
Geodetic System:	US State Plane Coordinate System 1983
Ellipsoid:	GRS 1980
Zone:	New Mexico, Eastern Zone
Magnetic Model:	IGRF2010
System Datum:	Mean Sea Level
Local North:	Grid North





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WFT Plan Report - X & Y's



Company:	Devon Energy	Date:	9/28/2012	Time:	06 10 18	Page:	1
Field:	Lea County, New Mexico (NAD 83)	Co-ordinate(NE) Reference:	Well: Black Mamba 15 State Com #2H				
Site:	Black Mamba 15 State Com #2H	Vertical (TVD) Reference:	SITE 3724 2				
Well:	Black Mamba 15 State Com #2H	Section (VS) Reference:	Well (0 00N,0 00E,183 68Azi)				
Wellpath:	1	Survey Calculation Method:	Minimum Curvature Db: Sybase				

Plan:	Plan #3	Date Composed:	9/28/2012
Principal:	Yes	Version:	1
		Tied-to:	From Surface

Field: Lea County, New Mexico (NAD 83)

Map System: US State Plane Coordinate System 1983
Geo Datum: GRS 1980
Sys Datum: Mean Sea Level

Map Zone: New Mexico, Eastern Zone
Coordinate System: Well Centre
Geomagnetic Model: IGRF2010

Site: Black Mamba 15 State Com #2H

Site Position:	Northing:	477931.91 ft	Latitude:	32 18 41 675 N
From: Map	Easting:	778196.67 ft	Longitude:	103 33 59 951 W
Position Uncertainty:	0 00 ft		North Reference:	Grid
Ground Level:	3699 20 ft		Grid Convergence:	0.41 deg

Well:	Black Mamba 15 State Com #2H	Slot Name:	
Well Position:	+N/-S 0 00 ft Northing: 477931 91 ft	Latitude:	32 18 41 675 N
	+E/-W 0 00 ft Easting: 778196 67 ft	Longitude:	103 33 59 951 W
Position Uncertainty:	0.00 ft		

Wellpath:	1	Drilled From:	Surface
Current Datum:	SITE	Tie-on Depth:	0 00 ft
Magnetic Data:	12/1/2012	Above System Datum:	Mean Sea Level
Field Strength:	48549 nT	Declination:	7.41 deg
Vertical Section:	Depth From (TVD)	Mag Dip Angle:	60 23 deg
	ft	+E/-W	Direction
		ft	deg
	0 00	0 00	0 00 183 68

Plan Section Information

MD ft	Incl deg	Azim deg	TVD ft	+N/-S ft	+E/-W ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft	TFO deg	Target
0 00	0 00	183.68	0 00	0 00	0 00	0 00	0 00	0 00	0 00	
10427 04	0 00	183 68	10427 04	0 00	0 00	0 00	0 00	0 00	0 00	
11327 04	90 00	183.68	11000 00	-571.78	-36 76	10 00	10 00	0 00	183 68	
15570.65	90 00	183.68	11000 00	-4806 64	-309 04	0 00	0 00	0 00	0 00	PBHL

Survey

MD ft	Incl deg	Azim deg	TVD ft	N/S ft	E/W ft	VS ft	DLS deg/100ft	MapN ft	MapE ft	Comment
10400 00	0 00	183 68	10400 00	0 00	0 00	0 00	0 00	477931 91	778196 67	KOP
10427 04	0 00	183 68	10427 04	0 00	0 00	0 00	0 00	477931 91	778196 67	
10450 00	2 30	183 68	10449 99	-0 46	-0 03	0 46	10 00	477931 45	778196 64	
10500 00	7 30	183 68	10499 80	-4 63	-0 30	4 64	10 00	477927 28	778196 37	
10550 00	12 30	183 68	10549 06	-13 12	-0 84	13 14	10 00	477918 79	778195 83	
10600 00	17 30	183 68	10597 39	-25 85	-1 66	25 91	10 00	477906 06	778195 01	
10650 00	22 30	183 68	10644 42	-42 75	-2 75	42 84	10 00	477889 16	778193 92	
10700 00	27 30	183 68	10689 79	-63 67	-4 09	63 80	10 00	477868 24	778192 58	
10750 00	32 30	183 68	10733 17	-88 45	-5 69	88 64	10 00	477843 46	778190 98	
10800 00	37 30	183 68	10774 21	-116 92	-7 52	117 16	10 00	477814 99	778189 15	
10850 00	42 30	183 68	10812 62	-148 85	-9 57	149 15	10 00	477783 06	778187 10	
10900 00	47 30	183 68	10848 09	-183 99	-11 83	184 37	10 00	477747 92	778184 84	
10950 00	52 30	183 68	10880 35	-222 09	-14 28	222 55	10 00	477709 82	778182 39	
11000 00	57 30	183 68	10909 17	-262 85	-16 90	263 39	10 00	477669 06	778179 77	
11050 00	62 30	183 68	10934 31	-305 96	-19 67	306 59	10 00	477625 95	778177 00	
11100 00	67 30	183 68	10955 60	-351 09	-22 57	351 81	10 00	477580 82	778174 10	
11150 00	72 30	183 68	10972 86	-397 90	-25 58	398 72	10 00	477534 01	778171 09	



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WFT Plan Report - X & Y's



Company: Devon Energy
Field: Lea County, New Mexico (NAD 83)
Site: Black Mamba 15 State Com #2H
Well: Black Mamba 15 State Com #2H
Wellpath: 1

Date: 9/28/2012 Time: 06 10 18 Page: 2
Co-ordinate(NE) Reference: Well Black Mamba 15 State Com #2H
Vertical (TVD) Reference: SITE 3724.2
Section (VS) Reference: Well (0.00N,0.00E,183 68Azi)
Survey Calculation Method: Minimum Curvature Db: Sybase

Survey

MD ft	Incl deg	Azim deg	TVD ft	N/S ft	E/W ft	VS ft	DLS deg/100ft	MapN ft	MapE ft	Comment
11200.00	77 30	183 68	10985 97	-446 04	-28 68	446 96	10 00	477485 87	778167.99	
11250 00	82 30	183 68	10994.83	-495 13	-31.83	496 15	10 00	477436 78	778164 84	
11300 00	87 30	183 68	10999 36	-544 80	-35 03	545 93	10 00	477387.11	778161 64	
11327 04	90 00	183 68	11000 00	-571 78	-36 76	572.96	10 00	477360 13	778159 91	LP
11400 00	90 00	183 68	11000 00	-644 59	-41 44	645.92	0.00	477287 32	778155 23	
11500 00	90 00	183 68	11000 00	-744 38	-47 86	745.92	0.00	477187 53	778148 81	
11600.00	90.00	183.68	11000 00	-844.17	-54 28	845.92	0.00	477087 74	778142 39	
11700 00	90 00	183 68	11000 00	-943 97	-60 69	945.92	0.00	476987 94	778135 98	
11800 00	90.00	183 68	11000 00	-1043 76	-67.11	1045.92	0.00	476888 15	778129 56	
11900 00	90.00	183 68	11000 00	-1143 56	-73 52	1145 92	0.00	476788 35	778123.15	
12000.00	90 00	183 68	11000 00	-1243 35	-79 94	1245.92	0.00	476688 56	778116.73	
12100.00	90.00	183 68	11000 00	-1343 14	-86.36	1345.92	0.00	476588 77	778110 31	
12200.00	90 00	183 68	11000 00	-1442 94	-92 77	1445.92	0.00	476488.97	778103.90	
12300.00	90 00	183 68	11000 00	-1542 73	-99 19	1545.92	0.00	476389.18	778097.48	
12400.00	90 00	183 68	11000 00	-1642 53	-105 61	1645.92	0.00	476289 38	778091.06	
12500.00	90 00	183 68	11000 00	-1742 32	-112.02	1745.92	0 00	476189 59	778084.65	
12600 00	90.00	183.68	11000 00	-1842.11	-118.44	1845 92	0.00	476089 80	778078.23	
12700 00	90.00	183.68	11000 00	-1941 91	-124 85	1945.92	0.00	475990 00	778071.82	
12800 00	90.00	183 68	11000 00	-2041 70	-131 27	2045 92	0.00	475890 21	778065.40	
12900 00	90 00	183.68	11000 00	-2141 50	-137.69	2145 92	0.00	475790 41	778058 98	
13000 00	90 00	183 68	11000 00	-2241 29	-144 10	2245.92	0.00	475690 62	778052.57	
13100 00	90 00	183 68	11000 00	-2341.08	-150.52	2345.92	0.00	475590 83	778046.15	
13200 00	90 00	183 68	11000 00	-2440 88	-156.93	2445 92	0.00	475491 03	778039.74	
13300.00	90.00	183 68	11000 00	-2540 67	-163.35	2545.92	0.00	475391 24	778033 32	
13400 00	90.00	183 68	11000 00	-2640 47	-169.77	2645 92	0 00	475291 44	778026.90	
13500 00	90 00	183 68	11000 00	-2740 26	-176 18	2745.92	0.00	475191 65	778020 49	
13600.00	90 00	183 68	11000 00	-2840 05	-182.60	2845 92	0 00	475091 86	778014 07	
13700 00	90.00	183 68	11000 00	-2939 85	-189.02	2945 92	0 00	474992 06	778007 65	
13800 00	90 00	183.68	11000 00	-3039 64	-195 43	3045 92	0 00	474892 27	778001 24	
13900.00	90 00	183.68	11000 00	-3139 44	-201 85	3145 92	0 00	474792 47	777994 82	
14000 00	90 00	183.68	11000 00	-3239 23	-208 26	3245 92	0.00	474692 68	777988 41	
14100 00	90 00	183 68	11000 00	-3339 02	-214 68	3345 92	0 00	474592 89	777981 99	
14200 00	90 00	183.68	11000 00	-3438 82	-221 10	3445 92	0 00	474493.09	777975 57	
14300 00	90 00	183 68	11000 00	-3538.61	-227 51	3545 92	0 00	474393 30	777969 16	
14400 00	90 00	183 68	11000 00	-3638.41	-233 93	3645 92	0 00	474293.50	777962 74	
14500.00	90.00	183.68	11000 00	-3738 20	-240 35	3745 92	0 00	474193 71	777956 32	
14600 00	90 00	183 68	11000 00	-3837.99	-246 76	3845 92	0 00	474093.92	777949 91	
14700 00	90 00	183 68	11000 00	-3937 79	-253.18	3945.92	0 00	473994 12	777943 49	
14800.00	90 00	183 68	11000 00	-4037 58	-259 59	4045 92	0 00	473894 33	777937 08	
14900.00	90.00	183.68	11000 00	-4137 38	-266 01	4145 92	0.00	473794 53	777930 66	
15000 00	90 00	183 68	11000 00	-4237 17	-272 43	4245 92	0 00	473694 74	777924 24	
15100 00	90 00	183 68	11000 00	-4336 96	-278 84	4345 92	0 00	473594 95	777917 83	
15200.00	90.00	183 68	11000 00	-4436 76	-285 26	4445 92	0 00	473495 15	777911 41	
15300 00	90 00	183 68	11000 00	-4536.55	-291 67	4545 92	0 00	473395.36	777905 00	
15400 00	90 00	183 68	11000 00	-4636.34	-298 09	4645 92	0 00	473295.57	777898.58	
15500 00	90 00	183 68	11000 00	-4736 14	-304.51	4745.92	0 00	473195.77	777892.16	
15570 65	90 00	183.68	11000 00	-4806 64	-309.04	4816 56	0 00	473125 27	777887.63	PBHL



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WFT Plan Report - X & Y's



Company: Devon Energy	Date: 9/28/2012	Time: 06 10 18	Page: 3
Field: Lea County, New Mexico (NAD 83)	Co-ordinate(NE) Reference: Well: Black Mamba 15 State Com #2H		
Site: Black Mamba 15 State Com #2H	Vertical (TVD) Reference: SITE 3724 2		
Well: Black Mamba 15 State Com #2H	Section (VS) Reference: Well (0 00N,0 00E,183.68Azi)		
Wellpath: 1	Survey Calculation Method: Minimum Curvature	Db: Sybase	

Targets

Name	Description Dip.	Dir.	TVD ft	+N/-S ft	+E/-W ft	Map Northing ft	Map Easting ft	<--- Latitude ---> Deg Min Sec	<--- Longitude ---> Deg Min Sec
PBHL -Rectangle (4242x50)			11000 00	-4806 64	-309 04	473125.27	777887 63	32 17 54.135 N	103 34 3 951 W

Casing Points

MD	TVD	Diameter	Hole Size	Name

Annotation

MD ft	TVD ft	
10427 04	10427 04	KOP
11327 04	11000 00	LP
15570 65	0 00	PBHL

Formations

MD	TVD	Formations	Lithology	Dip Angle	Dip Direction

**Weatherford®****Weatherford Drilling Services**

GeoDec v5.03

Report Date: September 24, 2012
Job Number: _____
Customer: Devon Energy
Well Name: Black Mamba 15 State Com #2H
API Number: _____
Rig Name: _____
Location: Lea County, NM
Block: _____
Engineer: Patrick Rudolph

US State Plane 1983	Geodetic Latitude / Longitude
System: New Mexico Eastern Zone	System: Latitude / Longitude
Projection: Transverse Mercator/Gauss Kruger	Projection: Geodetic Latitude and Longitude
Datum: North American Datum 1983	Datum: North American Datum 1983
Ellipsoid: GRS 1980	Ellipsoid: GRS 1980
North/South 477931.910 USFT	Latitude 32.3115790 DEG
East/West 778196.670 USFT	Longitude -103.5666479 DEG
Grid Convergence: .41°	
Total Correction: +7.00°	

Geodetic Location WGS84	Elevation =	0.0 Meters
Latitude =	32.31158° N	32° 18 min 41.684 sec
Longitude =	103.56665° W	103° 33 min 59.932 sec

Magnetic Declination =	7.41°	[True North Offset]
Local Gravity =	.9988 g	Checksum = 6487
Local Field Strength =	48545 nT	Magnetic Vector X = 23900 nT
Magnetic Dip =	60.23°	Magnetic Vector Y = 3109 nT
Magnetic Model =	IGRF-2010g11	Magnetic Vector Z = 42139 nT
Spud Date =	Dec 01, 2012	Magnetic Vector H = 24101 nT

Signed: _____

Date: _____