

OKLAHOMA CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION
P.O. BOX 52000
OKLAHOMA CITY, OK 73152-2000
(Rule 165:10-3-1)

API NUMBER: 011 23770

Approval Date: 03/22/2017
Expiration Date: 09/22/2017

Horizontal Hole Oil & Gas

PERMIT TO DRILL

WELL LOCATION: Sec: 24 Twp: 17N Rge: 10W County: BLAINE
SPOT LOCATION: SE NE NE NE FEET FROM QUARTER: FROM NORTH FROM EAST
SECTION LINES: 571 225

Lease Name: BLACK MAMBA 13-17N-10W Well No: 1H Well will be 225 feet from nearest unit or lease boundary.

Operator Name: DEVON ENERGY PRODUCTION CO LP Telephone: 4052353611; 4052353 OTC/OCC Number: 20751 0

DEVON ENERGY PRODUCTION CO LP
333 W SHERIDAN AVE
OKLAHOMA CITY, OK 73102-5010

SS FAMILY FARMS, LLC C/O SANFORD STARK
24175 E 996 ROAD
WEATHERFORD OK 73096

Formation(s) (Permit Valid for Listed Formations Only):

	Name	Depth	Name	Depth
1	MISSISSIPPIAN	8171	6	
2	WOODFORD	9441	7	
3			8	
4			9	
5			10	

Spacing Orders: 646099

Location Exception Orders:

Increased Density Orders:

Pending CD Numbers: 201701230

Special Orders:

Total Depth: 14450

Ground Elevation: 1267

Surface Casing: 1999

Depth to base of Treatable Water-Bearing FM: 180

Under Federal Jurisdiction: No

Fresh Water Supply Well Drilled: No

Surface Water used to Drill: Yes

PIT 1 INFORMATION

Approved Method for disposal of Drilling Fluids:

Type of Pit System: CLOSED Closed System Means Steel Pits

Type of Mud System: WATER BASED

Chlorides Max: 8000 Average: 5000

Is depth to top of ground water greater than 10ft below base of pit? Y

Within 1 mile of municipal water well? N

Wellhead Protection Area? N

Pit is not located in a Hydrologically Sensitive Area.

Category of Pit: C

Liner not required for Category: C

Pit Location is NON HSA

Pit Location Formation: CHICKASHA

D. One time land application -- (REQUIRES PERMIT) PERMIT NO: 17-32252
H. SEE MEMO

This permit does not address the right of entry or settlement of surface damages.
The duration of this permit is SIX MONTHS, except as otherwise provided by Rule 165: 10-3-1.
Rule 165: 10-3-4 (c) (7) (e) - The Operator shall give 24 Hours notice by telephone to the appropriate District Office of the Conservation Division as to when Surface Casing will be run.

PIT 2 INFORMATION

Type of Pit System: CLOSED Closed System Means Steel Pits

Type of Mud System: OIL BASED

Chlorides Max: 300000 Average: 200000

Is depth to top of ground water greater than 10ft below base of pit? Y

Within 1 mile of municipal water well? N

Wellhead Protection Area? N

Pit is not located in a Hydrologically Sensitive Area.

Category of Pit: C

Liner not required for Category: C

Pit Location is NON HSA

Pit Location Formation: CHICKASHA

HORIZONTAL HOLE 1

Sec 13 Twp 17N Rge 10W County BLAINE

Spot Location of End Point: NW NE NE NE

Feet From: NORTH 1/4 Section Line: 50

Feet From: EAST 1/4 Section Line: 380

Depth of Deviation: 8388

Radius of Turn: 477

Direction: 358

Total Length: 5312

Measured Total Depth: 14450

True Vertical Depth: 9441

End Point Location from Lease,
Unit, or Property Line: 50

Notes:

Category

Description

DEEP SURFACE CASING

3/7/2017 - G71 - APPROVED; NOTIFY OCC FIELD INSPECTOR IMMEDIATELY OF ANY LOSS OF CIRCULATION OR FAILURE TO CIRCULATE CEMENT TO SURFACE ON ANY CONDUCTOR OR SURFACE CASING

HYDRAULIC FRACTURING

3/7/2017 - G71 - OCC 165:10-3-10 REQUIRES: 1) THE CHEMICAL DISCLOSURE OF HYDRAULIC FRACTURING INGREDIENTS FOR ALL WELLS BE REPORTED TO FRACFOCUS USING THE FOLLOWING LINK [HTTP://FRACFOCUS.ORG/](http://fracfocus.org/) WITH NOTICE GIVEN 48 HOURS IN ADVANCE OF FRACTURING TO THE LOCAL OCC DISTRICT OFFICE; AND, 2) PRIOR TO COMMENCEMENT OF FRACTURING OPERATIONS FOR HORIZONTAL WELLS, NOTICE ALSO GIVEN FIVE BUSINESS DAYS IN ADVANCE TO OFFSET OPERATORS WITH WELLS COMPLETED IN THE SAME COMMON SOURCE OF SUPPLY WITHIN 1/2 MILE

INTERMEDIATE CASING

3/7/2017 - G71 - DUE TO THE KNOWN POTENTIAL RISK OF ENCOUNTERING AN OVER-PRESSURED ZONE IN THE MORROW SERIES IN THIS AREA, THE TECHNICAL MANAGER RECOMMENDS SETTING AN INTERMEDIATE STRING OF CASING IMMEDIATELY ABOVE THE MORROW SERIES

MEMO

3/7/2017 - G71 - PITS 1 & 2 - CLOSED SYSTEM=STEEL PITS PER OPERATOR REQUEST, PIT 2 - OBM RETURNED TO VENDOR, CUTTINGS PERMITTED PER DISTRICT

PENDING CD - 201701230

3/9/2017 - G60 - (I.O.) 13-17N-10W
X646099 MSSP, WDFD
X165:10-3-28 MSSP, WDFD (BLACK MAMBA 13-17N-10W-1H)
MAY BE CLOSER THAN 600' TO AN EXISTING WELL(S)
COMPL. INT. NCT 165' FSL, NCT 165' FNL, NCT 330' FEL, NCT 330' FWL
NO OP. NAMED
REC. 3/21/17 (M. PORTER)

This permit does not address the right of entry or settlement of surface damages.

The duration of this permit is SIX MONTHS, except as otherwise provided by Rule 165: 10-3-1.

Rule 165: 10-3-4 (c) (7) (e) - The Operator shall give 24 Hours notice by telephone to the appropriate District Office of the Conservation Division as to when Surface Casing will be run.

011 23770 BLACK MAMBA 13-17N-10W 1H

Category

Description

SPACING - 646099

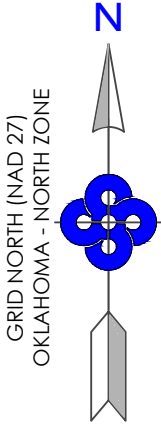
3/9/2017 - G60 - (640)(HOR) 13-17N-10W
VAC 191180 MCSTR, MSSSD NW4
EST MSSP
EXT WDFD, OTHER
COMPL. INT. (MSSP) NCT 660' FB
COMPL. INT. (WDFD) NCT 165' FNL/FSL, NCT 330' FEL/FWL
(COEXIST WITH SP. ORDER 464660 CSTR, MSSSD NE4 S2)

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300 Pointe Parkway Blvd.
Yukon, OK 73099
405.787.6270 t 405.787.6276 f
www.craftontull.com
Crafton Tull
SURVEYING CA973(PE/LS) Exp. 6/30/18

3501123770



SURFACE HOLE DATA
STATE PLANE COORDINATES:
ZONE: OK-NORTH NAD27
X: 1937698.5
Y: 342384.9
GPS DATUM: NAD27
LAT: 35.94041375
LONG: -98.21045857
STATE PLANE COORDINATES:
ZONE: OK-NORTH NAD83
X: 1906098.2
Y: 342408.5
GPS DATUM: NAD83
LAT: 35.94045321
LONG: -98.21080240

BOTTOM HOLE DATA
STATE PLANE COORDINATES:
ZONE: OK-NORTH NAD27
X: 1937543.8
Y: 348172.0
GPS DATUM: NAD27
LAT: 35.95631085
LONG: -98.21102352
STATE PLANE COORDINATES:
ZONE: OK-NORTH NAD83
X: 1905943.5
Y: 348195.5
GPS DATUM: NAD83
LAT: 35.95634987
LONG: -98.21136771

BOTTOM HOLE
INFORMATION PROVIDED
BY OPERATOR LISTED.



OPERATOR: DEVON ENERGY PRODUCTION COMPANY, L.P.

LEASE NAME: BLACK MAMBA 13-17N-10W

WELL NO. 1H

GOOD DRILL SITE: YES

BLAINE COUNTY, STATE: OK

GROUND ELEVATION: 1267.75' GR. AT STAKE

SURFACE HOLE FOOTAGE: 225' FEL - 571' FNL

SECTION: 24 **TOWNSHIP:** T17N **RANGE:** R10W

BOTTOM HOLE: 13-T17N-R10W, I.M.

ACCESSIBILITY TO LOCATION: FROM EAST LINE

TOPOGRAPHY & VEGETATION: _____

LOCATION: FELL IN A FIELD

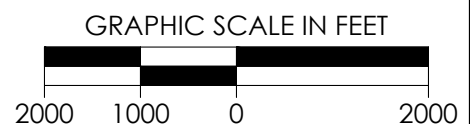
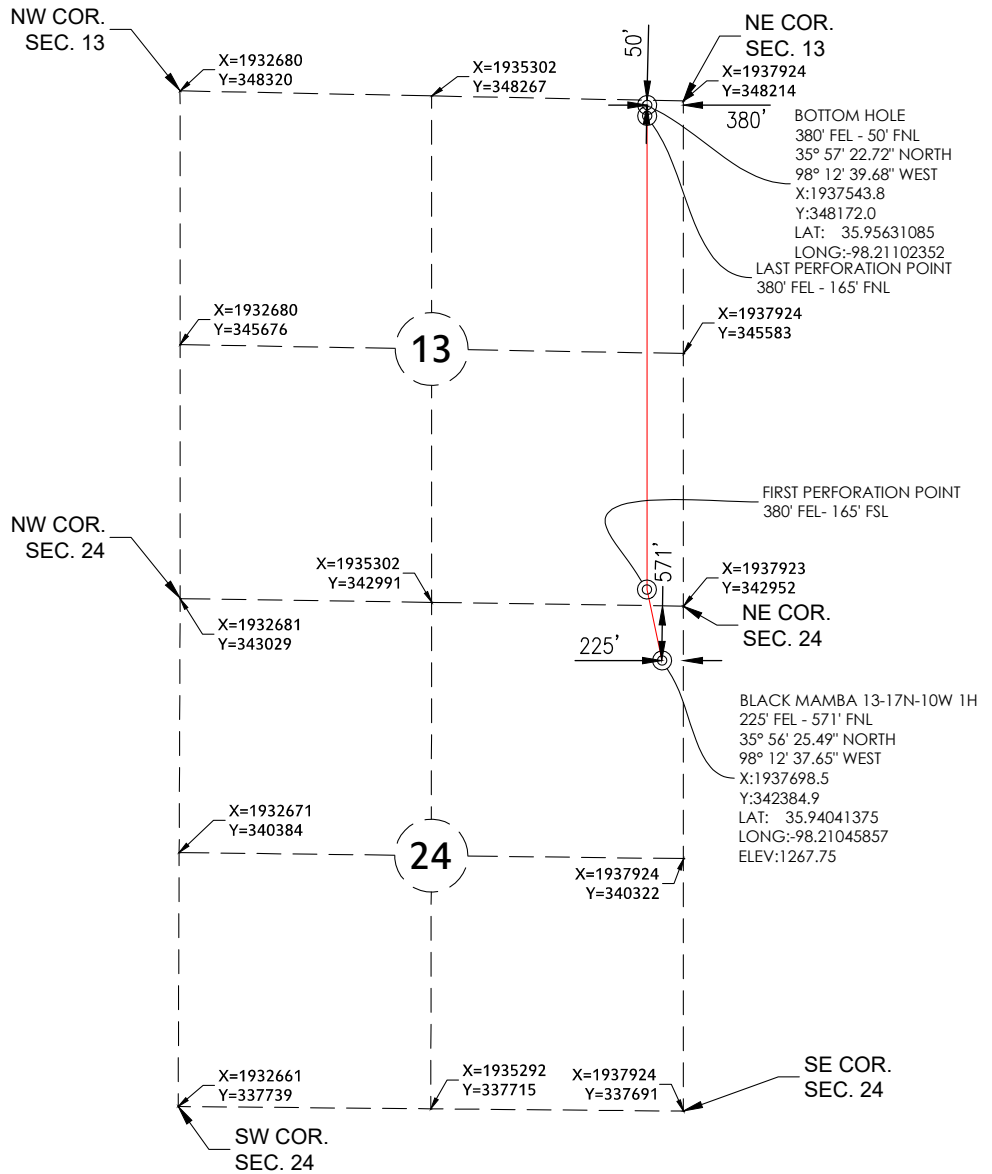
DISTANCE & DIRECTION FROM HWY JCT OR TOWN:
FROM THE TOWN OF HITCHCOCK, EAST ON E720 RD 7MI TO N2680 RD, SOUTH 2MI TO W740 RD, EAST 1MI TO N2690 RD, SOUTH 500FT. WELL IS LOCATED TO THE WEST.

PLEASE NOTE THAT THIS LOCATION WAS STAKED ON THE GROUND UNDER THE SUPERVISION OF A LICENSED PROFESSIONAL LAND SURVEYOR, BUT ACCURACY OF THIS EXHIBIT IS NOT GUARANTEED. PLEASE CONTACT CRAFTON TULL PROMPTLY IF ANY INCONSISTENCY IS DETERMINED, GPS DATA IS OBSERVED FROM RTK-GPS.

NOTE: X AND Y DATA SHOWN HEREON FOR SECTION CORNERS MAY NOT HAVE BEEN SURVEYED ON THE GROUND, AND FURTHER, DOES NOT REPRESENT A TRUE BOUNDARY SURVEY.

QUARTER SECTION DISTANCES MAY BE ASSUMED FROM A GOVERNMENT SURVEY PLAT OR ASSUMED AT A PROPORTIONATE DISTANCE FROM OPPOSING SECTION CORNERS, OR OCCUPATION THEREOF, AND MAY NOT HAVE BEEN MEASURED ON THE GROUND, AND FURTHER, DOES NOT REPRESENT A TRUE BOUNDARY SURVEY.

BLAINE COUNTY, OKLAHOMA
225' FEL - 571' FNL SECTION 24 TOWNSHIP 17N RANGE 10W I.M.



REVISION	"BLACK MAMBA 13-17N-10W 1H"		
	PART OF THE NE/4 OF SECTION 24, T-17-N, R-10-W PROPOSED DRILL SITE BLAINE COUNTY, OKLAHOMA		
	SCALE: 1" = 2000'	PLOT DATE: 02-27-2017	DRAWN BY: DW SHEET NO.: 1 OF 6