

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

API NUMBER: 073 26331

Approval Date: 11/06/2018

Expiration Date: 05/06/2020

Horizontal Hole Oil & Gas

PERMIT TO DRILL

WELL LOCATION: Sec: 23 Twp: 15N Rge: 9W

County: KINGFISHER

SPOT LOCATION: ☐ NE ☐ NW ☐ NE ☐ NW

FEET FROM QUARTER: FROM NORTH FROM WEST

SECTION LINES: 225 1770

Lease Name: BRACHIOSAURUS 23_26-15N-9W

Well No: 4HX

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 73102-5015

MARILYN E STANGL REVOCABLE
504 N 3RD STREET
OKARCHE OK 73762

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

	Name	Depth	Name	Depth
1	MISSISSIPPIAN (LESS CHESTER)	9147	6	
2	WOODFORD	10110	7	
3			8	
4			9	
5			10	

Spacing Orders: 642657
660020

Location Exception Orders:

Increased Density Orders:

Pending CD Numbers: 201807746
201807739
201807745
201807740

Special Orders:

Total Depth: 19808

Ground Elevation: 1198

Surface Casing: 1999

Depth to base of Treatable Water-Bearing FM: 350

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: 5000 Average: 3000

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: 18-35604

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 26 Twp 15N Rge 9W County KINGFISHER

Spot Location of End Point: SE SW SW SE

Feet From: SOUTH 1/4 Section Line: 50

Feet From: EAST 1/4 Section Line: 2180

Depth of Deviation: 9170

Radius of Turn: 477

Direction: 173

Total Length: 9888

Measured Total Depth: 19808

True Vertical Depth: 10110

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

Notes:

Category

Description

DEEP SURFACE CASING

10/31/2018 - GA8 - 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

10/31/2018 - GA8 - OCC 165:10-3-10 REQUIRES:

1) PRIOR TO COMMENCEMENT OF HYDRAULIC FRACTURING OPERATIONS FOR HORIZONTAL WELLS, NOTICE GIVEN FIVE BUSINESS DAYS IN ADVANCE TO OFFSET OPERATORS WITH WELLS COMPLETED IN THE SAME COMMON SOURCE OF SUPPLY WITHIN 1/2 MILE;

2) WITH NOTICE ALSO GIVEN 48 HOURS IN ADVANCE OF HYDRAULIC FRACTURING ALL WELLS TO BOTH THE OCC CENTRAL OFFICE AND LOCAL DISTRICT OFFICES, USING THE "FRAC NOTICE FORM" FOUND AT THE FOLLOWING LINK: OCCEWEB.COM/OG/OGFORMS.HTML; AND,

3) THE CHEMICAL DISCLOSURE OF HYDRAULIC FRACTURING INGREDIENTS FOR ALL WELLS TO BE REPORTED TO FRACFOCUS WITHIN 60 DAYS AFTER THE CONCLUSION THE HYDRAULIC FRACTURING OPERATIONS, USING THE FOLLOWING LINK: FRACFOCUS.ORG

INTERMEDIATE CASING

10/31/2018 - GA8 - 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

10/31/2018 - GA8 - PITS 1 & 2 - CLOSED SYSTEM=STEEL PITS PER OPERATOR REQUEST, PIT 2 - OBM RETURNED TO VENDOR, CUTTINGS PERMITTED PER DISTRICT

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.

073 26331 BRACHIOSAURUS 23_26-15N-9W
4HX

Category	Description
PENDING CD - 201807739	11/6/2018 - G56 - 23-15N-9W X642657 MSNLC 3 WELLS DEVON ENERGY PROD. CO., L.P. REC 10/16/2018 (P PORTER)
PENDING CD - 201807740	11/6/2018 - G56 - 26-15N-9W X660020 MSNLC 3 WELLS DEVON ENERGY PROD. CO., L.P. REC 10/16/2018 (P PORTER)
PENDING CD - 201807745	11/6/2018 - G56 - (I.O.) 23 & 26-15N-9W ESTABLISH MULTIUNIT HORIZONTAL WELL X642657 MSNLC, WDFD 23-15N-9W X660020 MSNLC, WDFD 26-15N-9W (WDFD IS AN ADJACENT COMMON SOURCE OF SUPPLY TO MSNLC) 50% 23-15N-9W 50% 26-15N-9W DEVON ENERGY PROD. CO., L.P. REC 10/16/2018 (P PORTER)
PENDING CD - 201807746	11/6/2018 - G56 - (I.O.) 23 & 26-15N-9W X642657 MSNLC, WDFD 23-15N-9W X660020 MSNLC, WDFD 26-15N-9W X165:10-3-28(C)(2)(B) MAY BE CLOSER THAN 600' TO THE COFFEY 26-1, COFFEY 4-26, BRACHIOSAURUS 26_23-15N-9W 1HX, TEAGUE 1-14H, ROSEMARY 1-14H COMPL INT (23-15N-9W) NCT 165' FNL, NCT 0' FSL, NCT 1320' FEL COMPL INT (26-15N-9W) NCT 0' FNL, NCT 165' FSL, NCT 1320' FEL DEVON ENERGY PROD. CO., L.P. REC 10/16/2018 (P PORTER)
SPACING - 642657	11/6/2018 - G56 - (640)(HOR) 23-15N-9W EXT 633506 WDFD EST MSNLC, OTHER COMPL INT NCT 660' FB MSNLC; NCT 165' FNL/FSL, NCT 330' FEL/FWL WDFD
SPACING - 660020	11/6/2018 - G56 - (640)(HOR) 26-15N-9W VAC 472385 WDFD EXT 642657 MSNLC, WDFD, OTHER COMPL INT NCT 660' FB MSNLC; NCT 165' FNL/FSL, NCT 330' FEL/FWL WDFD (COEXIST WITH SP # 166936)

300 Pointe Parkway Blvd.
Yukon, OK 73099
405.787.6270 f 405.787.6276 f
www.craftontull.com



Crafton Tull
SURVEYING CAP73(PE/LS) Exp. 6/30/18

OPERATOR: DEVON ENERGY PRODUCTION COMPANY, L.P.

LEASE NAME: BRACHIOSAURUS 23_26-15N-9W

WELL NO. 4HX

GOOD DRILL SITE: YES

KINGFISHER COUNTY, STATE: OK

GROUND ELEVATION: 1198.18' GR. AT STAKE

SURFACE HOLE FOOTAGE: 1770' FWL - 225' FNL

SECTION: 23 **TOWNSHIP:** 15N **RANGE:** 9W

BOTTOM HOLE: 26-T15N-R9W I.M.

ACCESSIBILITY TO LOCATION: FROM NORTH LINE

TOPOGRAPHY & VEGETATION:

LOCATION FELL IN A FIELD

DISTANCE & DIRECTION FROM HWY JCT OR TOWN:

FROM THE TOWN OF OKEENE, HEAD WEST ±8 MILES ON
OKLAHOMA AVENUE/E0890 RD TO N2740RD, HEAD NORTH
±3 MILES TO E0860RD, HEAD WEST ±0.75 MILES, PAD SITE IS
TO THE SOUTH.

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.



KINGFISHER COUNTY, OKLAHOMA
1770' FWL - 225' FNL SECTION 23 TOWNSHIP 15N RANGE 9W I.M.

SURFACE HOLE DATA

STATE PLANE COORDINATES:

ZONE: OK-NORTH NAD27

X: 1961446.8

Y: 279641.7

GPS DATUM: NAD27

LAT: 35.76815956

LONG: -98.12995159

STATE PLANE COORDINATES:

ZONE: OK-NORTH NAD83

X: 1929847.9

Y: 279665.5

GPS DATUM: NAD83

LAT: 35.76820403

LONG: -98.13028819

BOTTOM HOLE DATA

STATE PLANE COORDINATES:

ZONE: OK-NORTH NAD27

X: 1962741.4

Y: 269357.3

GPS DATUM: NAD27

LAT: 35.73991061

LONG: -98.12554323

STATE PLANE COORDINATES:

ZONE: OK-NORTH NAD83

X: 1931142.6

Y: 269381.1

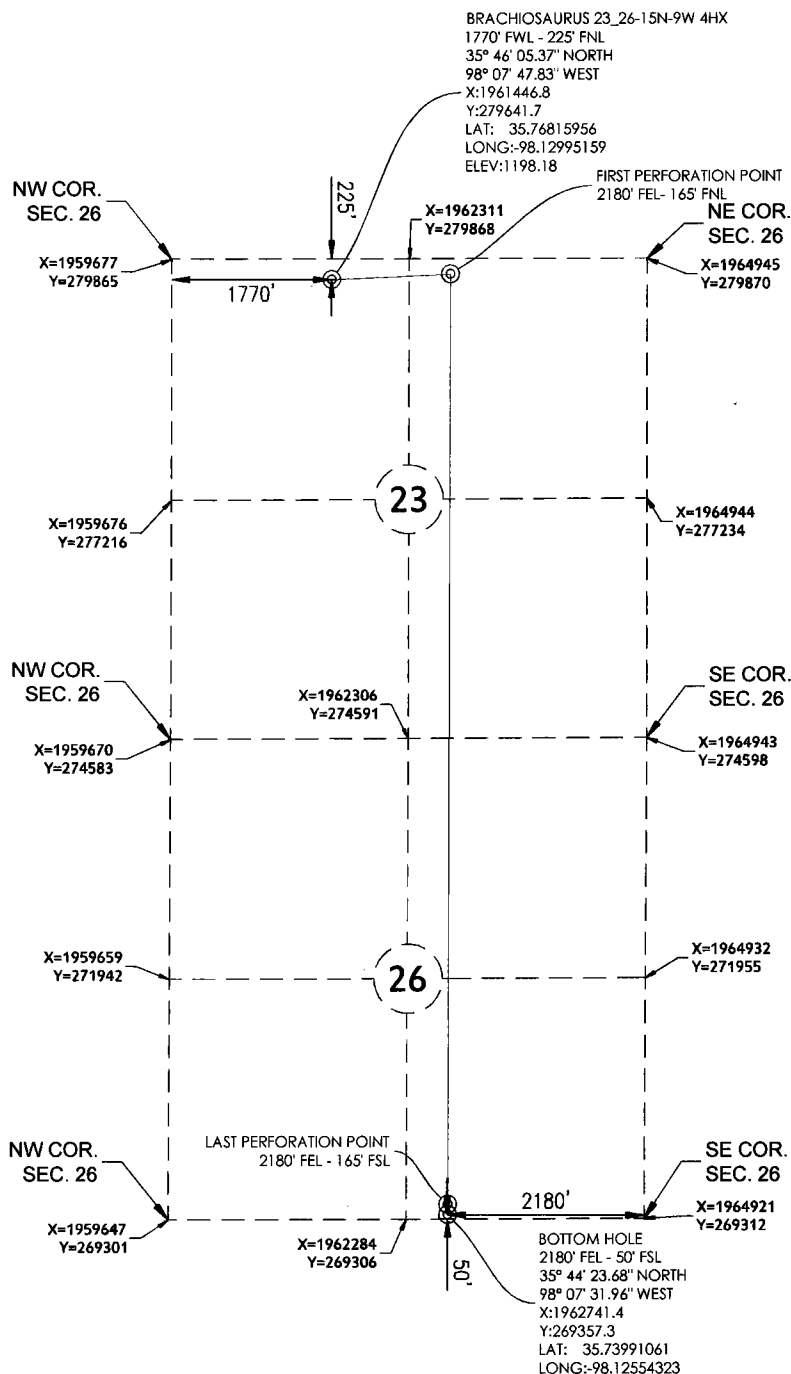
GPS DATUM: NAD83

LAT: 35.73995587

LONG: -98.12587894

BOTTOM HOLE

INFORMATION PROVIDED
BY OPERATOR LISTED.



2018.05.25 08:57:42-05'00'

