API NUMBER: 073 26116

Oil & Gas

Horizontal Hole

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

Approval Date: 06/18/2018
Expiration Date: 12/18/2018

## PERMIT TO DRILL

	SFISHER	: KING	County	8W	Rge:	15N	Twp:	18	Sec:	WELL LOCATION:
FROM WEST	NORTH	FROM	FEET FROM QUARTER:		NW	W	N'	NE	SE	SPOT LOCATION:
1028	350		SECTION LINES:							

Lease Name: SAFARI 7\_6-15N-8W Well No: 4HX Well will be 350 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

ELDON BREDEL & SUSAN BREDEL

6081 E. 860 ROAD

OKARCHE OK 73762

Special Orders:

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

	Name	Depth	Name	Depth
1	MISSISSIPPIAN	9175 6		
2		7		
3		8		
4		9		
5		10		
Spacing Orders:	634508	Location Exception Orders:		Increased Density Orders:

201804175

201804111 201804112 201804578

201804113

Total Depth: 19984 Ground Elevation: 1165 Surface Casing: 1999 Depth to base of Treatable Water-Bearing FM: 290

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 D. One time land application -- (REQUIRES PERMIT) PERMIT NO: 18-34479

Chlorides Max: 5000 Average: 3000 H. SEE MEMO

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

Pending CD Numbers:

Liner not required for Category: C

Pit Location is NON HSA

Pit Location Formation: CHICKASHA

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 06 Twp 15N Rge 8W County KINGFISHER

Spot Location of End Point: NE NW NW NW Feet From: NORTH 1/4 Section Line: 50

Feet From: WEST 1/4 Section Line: 380

Depth of Deviation: 8857 Radius of Turn: 477 Direction: 357

Total Length: 10378

Measured Total Depth: 19984

True Vertical Depth: 9334

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

Notes:

Category Description

DEEP SURFACE CASING 6/8/2018 - G71 - APPROVED; NOTIFY OCC FIELD INSPECTOR IMMEDIATELY FOR ANY LOSS OF

CIRCULATION OR FAILURE TO CIRCULATE CEMENT TO SURFACE ON CONDUCTOR OR

SURFACE CASING

HYDRAULIC FRACTURING 6/8/2018 - G71 - 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 6/8/2018 - 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 6/8/2018 - G71 - PIT 1 & 2 - CLOSED SYSTEM=STEEL PITS PER OPERATOR REQUEST; PIT 2 -

OBM TO VENDOR, OBM CUTTINGS PER DISTRICT

Category Description

6/14/2018 - G75 - (E.O.) 6-15N-8W X634508 MSSP \*\* PENDING CD - 201804111

4 WELLS

DEVON ENERGY PROD. CO., L.P. REC 6-8-2018 (M. PORTER)

\*\* S/B X634508/201804578 MSSP: TO BE CORRECTED IN ORDER SUBMITTED TO OCC FOR

REVIEW PER ATTORNEY FOR OPERATOR

PENDING CD - 201804112 6/14/2018 - G75 - (E.O.) 7-15N-8W

X634508 MSSP \*\*

4 WELLS

DEVON ENERGY PROD. CO., L.P. REC 6-8-2018 (M. PORTER)

\*\* S/B  $\times$  X634508/201804578 MSSP; TO BE CORRECTED IN ORDER SUBMITTED TO OCC FOR

REVIEW PER ATTORNEY FOR OPERATOR

PENDING CD - 201804113 6/14/2018 - G75 - (E.O.) 7 & 6-15N-8W

EST MULTIUNIT HORIZONTAL WELL

X634508 MSSP \*\* 50% 7-15N-8W 50% 6-15N-8W

DEVON ENERGY PROD. CO., L.P. REC 6-8-2018 (M. PORTER)

\*\* S/B X634508/201804578 MSSP; TO BE CORRECTED IN ORDER SUBMITTED TO OCC FOR

REVIEW PER ATTORNEY FOR OPERATOR

6/14/2018 - G75 - (E.O.) 7 & 6-15N-8W X634508 MSSP \*\* PENDING CD - 201804175

X165:10-3-28(C)(2)(B) MAY BE CLOSER THAN 600' TO EXISTING/PROPOSED WELLS

COMPL. INT. (7-15N-8W) NCT 165' FSL, NCT 0' FNL, NCT 330' FWL COMPL. INT. (6-15N-8W) NCT 0' FSL, NCT 165' FNL, NCT 330' FWL

DEVON ENERGY PROD. CO., L.P. REC 6-8-2018 (M. PORTER)

\*\* S/B X634508/201804578 MSSP: TO BE CORRECTED IN ORDER SUBMITTED TO OCC FOR

REVIEW PER ATTORNEY FOR OPERATOR

PENDING CD - 201804578 6/14/2018 - G75 - MODIFY 634508 TO VAC SP. ORDER # 91355 MNNG N2. SE4. E2 SW4 6-15N-

8W & COEXIST SP. ORDER # 91355 MNNG W2 SW4 6-15N-8W

HEARING 7-3-2018 (OK'D PER HULLINGER)

**SPACING - 634508** 6/14/2018 - G75 - (640)(HOR) 7 & 6-15N-8W

VAC 91355 MNNG 6-15N-8W \*\*

VAC 91355 MISS E2 NW4, E2 SW4, W2 NE4, SE4 6-15N-8W

**EST MSSP** 

POE TO BHL NCT 660' FB

(COEXIST SP. ORDER # 141175 CSTCU, MGLCS, MSSSD 7-15N-8W; ORDER # 91355 MISS W2

NW4, W2 SW4, E2 NE4 6-15N-8W) ++

\*\* S/B VAC 91355 MNNG N2, SE4, E2 SW4 6-15N-8W; CORRECTED BY CD # 201804578

++ SHOULD INCLUDE COEXIST ORDER # 91355 MNNG W2 SW4 6-15N-8W; CORRECTED BY CD

# 201804578

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

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**SURFACE HOLE DATA STATE PLANE COORDINATES: ZONE:** OK-NORTH NAD27

GPS DATUM: NAD27

GPS DATUM: NAD83

LONG: <u>-98.09718138</u>

STATE PLANE COORDINATES: **ZONE: OK-NORTH NAC** 

LAT: 35.78233957 LONG: -98.09684585

**X**: 1971273.6

Y: 284791.8

GRID NORTH (NAD 27) OKLAHOMA - NORTH ZONE

OPERATOR: DEVON ENERGY PRODUCTION COMPANY, L.P.

LEASE NAME:SAFARI 7\_6-15N-8W

WELL NO. 4HX GOOD DRILL SITE: YES

KINGFISHER COUNTY, STATE:OK

**GROUND ELEVATION:**1165.32' GR. AT STAKE SURFACE HOLE FOOTAGE: 1028' FWL - 350' FNL

SECTION: 18 TOWNSHIP: T15N RANGE: R8W

BOTTOM HOLE: 6-T15N-R8W, I.M.

ACCESSIBILITY TO LOCATION: FROM NORTH LINE

TOPOGRAPHY & VEGETATION:

LOCATION FELL IN A FIELD

FIRST PERFORATION POINT 380' FWL- 165' FSL

NW COR

SEC. 18

Y=285132

1028

**DISTANCE & DIRECTION FROM HWY JCT OR TOWN:** 

FROM THE TOWN OF OKARCHE HEAD NORTH ON <u>US-81/OK-3 ±5.5MI TO E840RD, HEAD WEST ±8.8MI TO</u> N2750RD, HEAD SOUTH ±1.0MI TO E850RD, HEAD EAST

±0.25MI, PAD SITE IS SOUTH OF ROAD.

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

NOTE: AND Y DATA SHOWN HEREON FOR SECTION CORNERS MAY NOT HAVE BEEN SURVEYED OF THE GROUND, AND FURTHER, <u>DOES NOT</u> 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, <u>DOES NOT</u> REPRESENT A TRUE BOUNDARY SURVEY.

API 073-26116

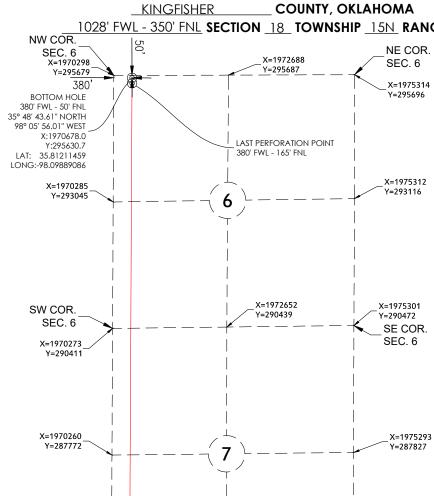
X=1975285 Y=285181

2000

NE COR.

SEC. 18

# 1028' FWL - 350' FNL **SECTION** 18 **TOWNSHIP** 15N **RANGE** 8W **I.M.**



**BOTTOM HOLE DATA** STATE PLANE COORDINATES: ZONE: OK-NORTH NAD27

X: 1970678.0 **Y**: <u>295630.7</u>

**GPS DATUM: NAD27 LAT**: 35.81211459 LONG: <u>-98.09889086</u>

**STATE PLANE COORDINATES: ZONE: OK-NORTH NAD83** 

X: 1939079.0 Y: 295654.4

GPS DATUM: NAD83 LAT: **LONG:** -98.09922715 **BOTTOM HOLE** 

INFORMATION PROVIDED BY OPERATOR LISTED.



SAFARI 7\_6-15N-8W 4HX 1028' FWL - 350' FNL 35° 46' 56.42" NORTH 98° 05' 48.65" WEST X:1971273.6 350 Y:284791.8 LAT: 35.78233957 LONG:-98.09684585 ELEV:1165.32 X=1970240 Y=282500 X=1975286 Y=282540 18 SE COR. X=1970233 SEC. 18 Y=279869 X=1972647 Y=279887 X=1975289 Y=279891 SW COR. SEC. 18 GRAPHIC SCALE IN FEET 2000 1000 0

X=1972645

Y=285155

REVISION	"S	_		
	PART OF THE 1	devon		
	SCALE: 1" = 2000' PLOT DATE: 05-08-2018	DRAWN BY:	SQ SHEET NO.:	1 OF 6