API NUMBER: 011 23994

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: 04/17/2018
Expiration Date: 10/17/2018

## PERMIT TO DRILL

WELL LOCATION:	Sec:	24	Twp:	15N	Rge:	12V	V	County	: BLAII	NE		
SPOT LOCATION:	SW	SE	SI		SE		FEET FROM QU	JARTER:	FROM	SOUTH	FROM	EAST
							SECTION LINES	S:		200		380

Lease Name: SWEETGUM 24\_13-15N-12W Well No: 1HX Well will be 200 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

LOIS & SHARON LOOKABAUGH, TRUSTEES

P.O. BOX 400

WATONGA OK 73772

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

	Name	Depth	Name	Depth
1	MISSISSIPPIAN	10769	6	
2	MISSISSIPPI LIME	11729	7	
3	WOODFORD	12564	8	
4			9	
5			10	
Spacing Orders:	581169	Location Exception Orders:		Increased Density Orders:
	580850			
Daniella a OD Norm	00400050		_	On a sint Ondone

Pending CD Numbers: 201800956 Special Orders:

201800954 201800955 201800957

Total Depth: 21965 Ground Elevation: 1579 Surface Casing: 1999 Depth to base of Treatable Water-Bearing FM: 40

Under Federal Jurisdiction: Yes Fresh Water Supply Well Drilled: No Surface Water used to Drill: No

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 -Chlorides Max: 8000 Average: 5000 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

 $\mbox{Pit} \quad \mbox{is not} \quad \mbox{located in a Hydrologically Sensitive Area}.$ 

Category of Pit: C

**Liner not required for Category: C**Pit Location is NON HSA

Pit Location Formation: DOG CREEK

D. One time land application -- (REQUIRES PERMIT) PERMIT NO: 17-33638

## 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: DOG CREEK

## HORIZONTAL HOLE 1

Sec. 13 Twp 15N Rge 12W County **BLAINE** Spot Location of End Point: NW NF ΝE NF Feet From: NORTH 1/4 Section Line: 50 EAST Feet From: 1/4 Section Line: 380

Depth of Deviation: 11000 Radius of Turn: 420 Direction: 360

Total Length: 10340

Measured Total Depth: 21965 True Vertical Depth: 12564

End Point Location from Lease.

Unit, or Property Line: 50

Notes:

Category Description

DEEP SURFACE CASING 3/13/2018 - 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 3/13/2018 - 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 3/13/2018 - 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 3/13/2018 - G71 - PITS 1 & 2 - CLOSED SYSTEM=STEEL PITS PER OPERATOR REQUEST, PIT 2 -

OBM RETURNED TO VENDOR, CUTTINGS PERMITTED PER DISTRICT

Category Description

PENDING CD - 201800954 4/16/2018 - G58 - 13-15N-12W

X581169 MSSP\*\*. WDFD

1 WELL

NO OP. NAMED

REC 2/27/2018 (DENTON)

\*\*S/B MSSLM; TO BE CORRECTED ON INTERIM ORDER PER ATTORNEY FOR OP.

PENDING CD - 201800955

4/16/2018 - G58 - 24-15N-12W

X580850 MSSP, WDFD

1 WELL

NO OP. NAMED

REC 2/27/2018 (DENTON)

PENDING CD - 201800956

4/16/2018 - G58 - (I.O.) 13 & 24-15N-12W EST MULTIUNIT HORIZONTAL WELL X581169 MSSP\*\*, WDFD (13-15N-12W) X580850 MSSP, WDFD (24-15N-12W)

(MSSP IS ADJACENT COMMON SOURCE OF SUPPLY TO WDFD)

50% 13-15N-12W 50% 24-15N-12W NO OP. NAMED

REC 2/27/2018 (DENTON)

\*\* S/B MSSLM; WILL BE CHANGED FOR INTERIM ORDER PER ATTORNEY FOR OP.

PENDING CD - 201800957

4/16/2018 - G58 - (I.O.) 13 & 24-15N-12W X581169 MSSP\*\*, WDFD (13-15N-12W) X580850 MSSP, WDFD (24-15N-12W)

COMPL. INT. (13-15N-12W) NCT 150' FNL, NCT 0' FSL, NCT 330' FWL COMPL. INT. (24-15N-12W) NCT 0' FNL, NCT 150' FSL, NCT 330' FWL

NO OP. NAMED

**REC 2/27/2018 (DENTON)** 

\*\*S/B MSSLM: TO BE CORRECTED FOR INTERIM ORDER PER ATTORNEY FOR OP.

SPACING - 580850

4/16/2018 - G58 - (640) 24-15N-12W EXT 574743 MSSP, WDFD, OTHERS

**SPACING - 581169** 

4/16/2018 - G58 - (640) 13-15N-12W

EXT WDFD, OTHÈRS

EST MSSLM

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

011-23994

OPERATOR: DEVON ENERGY PRODUCTION COMPANY, L.P.

LEASE NAME:SWEETGUM 24\_13-15N-12W

WELL NO. 1HX

GOOD DRILL SITE: YES

BLAINE COUNTY, STATE:OK
GROUND ELEVATION:1579.03' GR. AT STAKE

SURFACE HOLE FOOTAGE: 380' FEL - 200' FSL

SECTION: 24 TOWNSHIP: T15N RANGE: R12W

BOTTOM HOLE:13-T15N-R12W,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 WATONGA HEAD SOUTH ON
OK-8/US-281 ±3.5MI TO N2570RD, HEAD SOUTH ±2.7MI,
PAD SITE IS WEST 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 RIK-GPS.

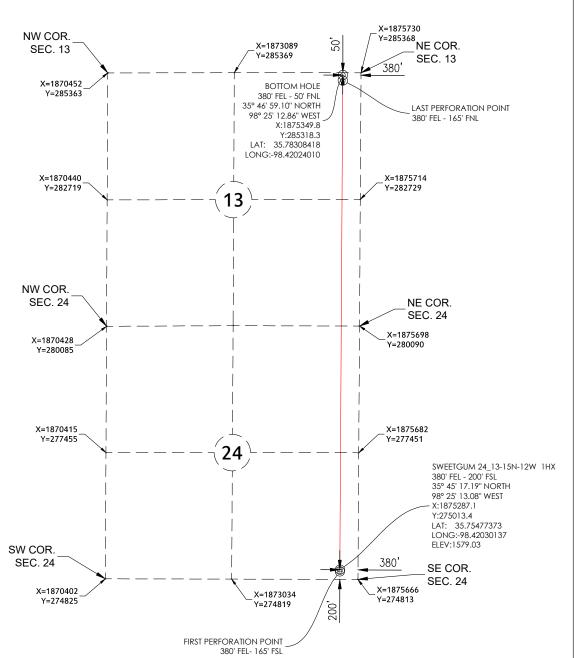
OBSERVED FROM RIK-GPS.

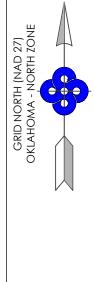
NOTE:X AND Y DATA SHOWN HEREON FOR SECTION CORNERS MAY NOT HAVE BEEN SURVEYED ON THE GROUND, AND FURTHER, <u>DOES NOT</u> REPRESENT A TRUE BOUNDARY SURVEY.

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.

BLAINE COUNTY, OKLAHOMA

380' FEL - 200' FSL SECTION 24 TOWNSHIP 15N RANGE 12W I.M.





Ν

SURFACE HOLE DATA
STATE PLANE COORDINATES:

ZONE: OK-NORTH NAD27

X: 1875287.1

GPS DATUM: NAD27

LAT: <u>35.75477373</u> LONG: <u>-98.42030137</u>

STATE PLANE COORDINATES: ZONE: OK-NORTH NAD83

**Y**• 1843686 7

Y: 275037.8

GPS DATUM: NAD83 LAT: 35.75481944 LONG: -98.42064968

BOTTOM HOLE DATA
STATE PLANE COORDINATES:

ZONE: OK-NORTH NAD2

X: 1875349.8 Y: 285318.3

GPS DATUM: NAD27
LAT: 35.78308418
LONG: -98.42024010
STATE PLANE COORDINATES:

**ZONE**: OK-NORTH NAD83 **X**: 1843749.3

X: 1843/49.3 Y: 285342.2

GPS DATUM: NAD83 LAT: 35.78312783 LONG: -98.42058913 BOTTOM HOLE

INFORMATION PROVIDED BY OPERATOR LISTED.



GRAPHIC SCALE IN FEET

2000 1000 0 2000

REVISION "SWEETGUM 24_13-15N-12W 1HX							
	F	PART OF THE SE/4 OF SECTION 24, T-15-N, R-12-W PROPOSED DRILL SITE BLAINE COUNTY, OKLAHOMA					
	SCALE: 1" = PLOT DATE:		DRAWN BY:	SQ	SHEET NO.:	1 OF 6	