API NUMBER: 073 25891

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: 01/10/2018 07/10/2018 **Expiration Date**

PERMIT TO DRILL

County: KINGFISHER WELL LOCATION: Sec: 08 Twp: 15N Rge: 9W

FEET FROM QUARTER: FROM SPOT LOCATION: sw SOUTH WEST sw ll se lsw

SECTION LINES: 320 1557

Lease Name: BERNHARDT 8_5-15N-9W Well No: знх Well will be 320 feet from nearest unit or lease boundary.

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

DEVON ENERGY PRODUCTION CO LP 333 W SHERIDAN AVE

OKLAHOMA CITY. OK 73102-5010 DEVON ENERGY PROD CO LP 333 W SHERIDAN AVE

OKLAHOMA CITY OK 73102

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

Name Depth Name Depth MISSISSIPPIAN 1 8955 6 2 MISSISSIPPIAN (EX CHESTER) 9750 7 3 8 4 9 5 10 631851 Spacing Orders: Location Exception Orders: 671792 Increased Density Orders: 645049 671220

Pending CD Numbers: 201706732 Special Orders:

201706733

Total Depth: 19745 Ground Elevation: 1249 Surface Casing: 1999 Depth to base of Treatable Water-Bearing FM: 390

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

Approved Method for disposal of Drilling Fluids: PIT 1 INFORMATION

Type of Pit System: CLOSED Closed System Means Steel Pits

Type of Mud System: WATER BASED

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?

Chlorides Max: 5000 Average: 3000

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: 17-33420

H. SEE MEMO

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: CPit Location is NON HSA

Pit Location Formation: CHICKASHA

HORIZONTAL HOLE 1

Sec 05 Twp 15N Rge 9W County KINGFISHER

Spot Location of End Point: NW NW NE NW
Feet From: NORTH 1/4 Section Line: 50
Feet From: WEST 1/4 Section Line: 1500

Depth of Deviation: 9273
Radius of Turn: 477
Direction: 359
Total Length: 9723

Measured Total Depth: 19745

True Vertical Depth: 9750

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

Notes:

Category Description

DEEP SURFACE CASING 1/5/2018 - 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 1/5/2018 - 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 1/5/2018 - 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

Category Description

LOCATION EXCEPTION - 671792 1/8/2018 - G60 - (E.O.) 8 & 5-15N-9W

X645049 (8-15N-9W) MSNLC, WDFD X631851 (5-15N-9W) MSSP, WDFD

X165:10-3-28(C)(2)(B) MSSP, MSNLC, WDFD

MAY BE CLOSER THAN 600' TO ANOTHER PROPOSED WELL, THE CASTONGUAYT 1 OR THE

BERNHARDT 8_5-15N-9W 1HX WELLS

COMPL. INT. (8-15N-9W) NCT 165' FSL, NCT 0' FNL, NCT 660' FWL COMPL. INT. (5-15N-9W) NCT 0' FNL, NCT 165' FNL, NCT 660' FWL

DEVON ENERGY PROD. CO. LP.

12/3/18

MEMO 1/5/2018 - G71 - PITS 1 & 2 - CLOSED SYSTEM=STEEL PITS PER OPERATOR REQUEST, PIT 2 -

OBM RETURNED TO VENDOR, CUTTINGS PERMITTED PER DISTRICT

PENDING CD - 201706732 1/8/2018 - G60 - (E.O.) 8-15N-9W

X631851 MSSP, WDFD

9 WELLS

DEVON ENERGY PRODUCTION CO, LP

REC. 11/13/17 (M. PORTER)

PENDING CD - 201706733 1/8/2018 - G60 - (E.O.) 5-15N-9W

X631851 MSSP. WDFD

9 WELLS

DEVON ENERGY PRODUCTION CO, LP

REC. 11/13/17 (M. PORTER)

SPACING - 631851 1/8/2018 - G60 - (640)(HOR) 5-15N-9W

EST MSSP, OTHERS

COMPL. INT. (MSSP) NLT 660' FB

COMPL. INT. (WDFD) NLT 330' FEL & FWL, NCT 165' FNL & FSL (COEXIST WITH 56289 MCSTR; SP. ORDER 212941 MSSSD)

SPACING - 645049 1/8/2018 - G60 - (640)(HOR) 8-15N-9W

EST MSNLC, OTHER EXT 642679 WDFD

COMPL. INT. (MSNLC) NCT 660' FB

COMPL. INT. (WDFD) NCT 165' FNL & FSL, NCT 330' FEL & FWL

(COEXIST WITH SP. ORDER 176175 MSSSD)

SPACING ORDER - 671220 1/8/2018 - G60 - (E.O.) 8 & 5-15N-9W

EST MULTIUNIT HORIZONTAL WELL X645049 (8-15N-9W) MSNLC, WDFD X631851 (5-15N-9W) MSSP. WDFD

50% 8-15N-9W 50% 5-15N-9W

DEVON ENERGY PROD. CO. LP.

12/14/17

300 Pointe Parkway Blvd. Yukon, OK 73099 40.5 787 6270 t 40.5 787 6276 f www.craftontull.com Crafton Tull

3507325891

OPERATOR: DEVON ENERGY PRODUCTION COMPANY, L.P.

LEASE NAME: BERNHARDT 8_5-15N-9W

WELL NO. 3HX

GOOD DRILL SITE: YES KINGFISHER COUNTY, STATE:OK

GROUND ELEVATION:1249.37' GR. AT STAKE

SURFACE HOLE FOOTAGE: 1557' FWL - 320' FSL

SECTION: 8 TOWNSHIP: T15N RANGE: R9W

BOTTOM HOLE: 5-T15N-R9W,I.M.

ACCESSIBILITY TO LOCATION: FROM SOUTH LINE

TOPOGRAPHY & VEGETATION:

LOCATION FELL IN A FIELD

DISTANCE & DIRECTION FROM HWY JCT OR TOWN: FROM THE TOWN OF KINGFISHER HEAD WEST ON OK-3 14MI± TO N2710RD, HEAD SOUTH 4MI± TO E850RD, HEAD WEST 0.75MI±, PAD SITE IS NORTH OF ROAD.

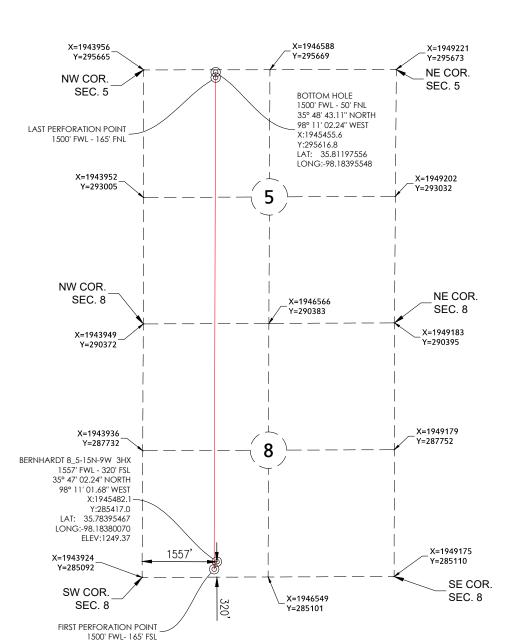
PLEASE NOTE THAT THIS LOCATION WAS STAKED ON THE GROUND UNDER THE SUPERVISION OF A LICENSED PROFESSIONAL LAND SURVEYOR, BUT ACCURACY OF THIS EXHIBIT IS NOT GUARANTEED, PLEASE CONTACT CRAFTON TULL PROMPTLY IF ANY INCONSISTENCY IS DETERMINED, GPS DATA IS OBSERVED FROM RTK-GPS.

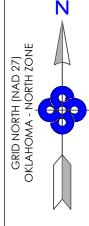
OBSERVED FROM RIK-GPS.

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.

KINGFISHER COUNTY, OKLAHOMA 1557' FWL - 320' FSL SECTION 8 TOWNSHIP 15N RANGE 9W I.M.





SURFACE HOLE DATA STATE PLANE COORDINATES:

ZONE: OK-NORTH NAD27

X: 1945482.1

GPS DATUM: NAD27

LAT: <u>35.78395467</u> LONG: -98.18380070

STATE PLANE COORDINATES:

ZONE: OK-NORTH NAD

GPS DATUM: NAD83

LAT: <u>35.7839985</u> LONG: -98.18413988

BOTTOM HOLE DATA
STATE PLANE COORDINATES:

ZONE: OK-NORTH NAD2: **X**: 1945455.6

Y: 295616.8

GPS DATUM: NAD27 **LAT:** <u>35.81197556</u> LONG: <u>-98.18395548</u>

STATE PLANE COORDINATES: ZONE: OK-NORTH NAD83

X: 1913856.1 **Y**: 295640.5

GPS DATUM: NAD83 LAT: 35.81201866 LONG: -98.18429539 **BOTTOM HOLE**

INFORMATION PROVIDED BY OPERATOR LISTED.



GRAPHIC SCALE IN FEET 2000 1000 0 2000

REVISION		"BERNHARDT 8_5-15N-9W 3HX"			
		PART OF THE SW/4 OF SECTION 8, T-15-N, R-9-W PROPOSED DRILL SITE KINGFISHER COUNTY, OKLAHOMA		devon	
		SCALE: 1" = 2000' PLOT DATE: 09-22-2017	DRAWN BY	SQ SHEET NO:	1 OF 6