API NUMBER: 011 24165

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

Approval Date: 01/29/2019
Expiration Date: 07/29/2020

400 feet from nearest unit or lease boundary.

20751 0

Horizontal Hole Multi Unit

l Hole Oil & Gas

Category of Pit: C

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

Pit Location Formation: FLOWERPOT

## PERMIT TO DRILL

		FERMIT TO E	MILL
WELL LOCATION:         Sec:         12         Twp:         15N         Rge:         10W           SPOT LOCATION:         NE         SW         SE         SW         FEET FROM SECTION LIN	FROM	SOUTH FROM	WEST 1750
Lease Name: MINNIE HAHA 12_1-15N-10W	Well No:	2HX	Well will
Operator DEVON ENERGY PRODUCTION CO LP Name:		Telephone: 4	052353611; 4052353
DEVON ENERGY PRODUCTION CO LP 333 W SHERIDAN AVE OKLAHOMA CITY, OK 73102-8	5015		ROBERT & KIM MC

ROBERT & KIM MCGRUDER, CO-TRUSTEES
P.O. BOX 704
MILTON FL 32572

OTC/OCC Number:

	Name	Depth	Name	Depth
1	MISSISSIPPIAN	9200	6	
2	WOODFORD	10650	7	
3			8	
4			9	
5			10	
Spacing Orders:	594508 587191	Location Exception Orders:		Increased Density Orders: 689878
	586086			689879
Pending CD Num	obers: 201809637 201809636			Special Orders:
Total Depth:	0 151 // 1070			
rotar Depth:	20030 Ground Elevation: 1276	Surface Casing: '	1999	Depth to base of Treatable Water-Bearing FM: 60
Under Federa		Surface Casing: 7		Depth to base of Treatable Water-Bearing FM: 60  Surface Water used to Drill: Yes
Under Federa	I Jurisdiction: No	•		Surface Water used to Drill: Yes
Under Federa	I Jurisdiction: No ATION	Fresh Water Supply Well	Drilled: No	Surface Water used to Drill: Yes
Under Federa PIT 1 INFORM/ Type of Pit Syst	I Jurisdiction: No	Fresh Water Supply Well	Drilled: No Approved Method for dispose	Surface Water used to Drill: Yes
Under Federa PIT 1 INFORM/ Type of Pit Syst Type of Mud Sy	I Jurisdiction: No ATION em: CLOSED Closed System Means Steel F stem: WATER BASED	Fresh Water Supply Well	Drilled: No Approved Method for dispose	Surface Water used to Drill: Yes sal of Drilling Fluids:
Under Federa PIT 1 INFORM/ Type of Pit Syst Type of Mud Sy Chlorides Max:	I Jurisdiction: No ATION em: CLOSED Closed System Means Steel F	Fresh Water Supply Well	Drilled: No  Approved Method for dispose  D. One time land application	Surface Water used to Drill: Yes sal of Drilling Fluids:
Under Federa PIT 1 INFORM/ Type of Pit Syst Type of Mud Sy Chlorides Max: Is depth to top o	I Jurisdiction: No ATION em: CLOSED Closed System Means Steel F stem: WATER BASED 8000 Average: 5000	Fresh Water Supply Well	Drilled: No  Approved Method for dispose  D. One time land application	Surface Water used to Drill: Yes sal of Drilling Fluids:

## 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: FLOWERPOT

## HORIZONTAL HOLE 1

Sec 01 Twp 15N Rge 10W County **BLAINE** NW Spot Location of End Point: NW NF NW Feet From: NORTH 1/4 Section Line: 50 Feet From: WEST 1/4 Section Line: 940

Depth of Deviation: 9000 Radius of Turn: 477 Direction: 355

Total Length: 10281

Measured Total Depth: 20030

True Vertical Depth: 10650

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

Notes:

Category Description

DEEP SURFACE CASING 12/21/2018 - 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 12/21/2018 - 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

INCREASED DENSITY - 689878 1/29/2019 - G75 - 12-15N-10W

X594508 MSSP 3 WELLS NO OP. NAMED 1-16-2019

INCREASED DENSITY - 689879 1/29/2019 - G75 - 1-15N-10W

X587191 MSSP 3 WELLS NO OP. NAMED 1-16-2019 Category Description

INTERMEDIATE CASING 12/21/2018 - 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 12/21/2018 - G71 - PIT 1 & 2 - CLOSED SYSTEM=STEEL PITS PER OPERATOR REQUEST; PIT 2 -

OBM TO VENDOR, OBM CUTTINGS PER DISTRICT

PENDING CD - 201809636 1/29/2019 - G75 - (I.O.) 12 & 1-15N-10W

EST MULTIUNIT HORIZONTAL WELL X594508 MSSP, WDFD 12-15N-10W

X587191 MSSP 1-15N-10W X586086 WDFD 1-15N-10W

(WDFD ADJACENT COMMON SOURCE OF SUPPLY TO MSSP)

50% 12-15N-10W 50% 1-15N-10W

DEVON ENERGY PROD. CO., L.P. REC 12-10-2018 (M. PORTER)

PENDING CD - 201809637 1/29/2019 - G75 - (I.O.) 12 & 1-15N-10W

X594508 MSSP, WDFD 12-15N-10W

X587191 MSSP 1-15N-10W X586086 WDFD 1-15N-10W

COMPL. INT. (12-15N-10W) NCT 165' FSL, NCT 0' FNL, NCT 330' FWL COMPL. INT. (1-15N-10W) NCT 0' FSL, NCT 165' FNL, NCT 330' FWL

DEVON ENERGY PROD. CO., L.P. REC 12-10-2018 (M. PORTER)

SPACING - 586086 1/29/2019 - G75 - (640) 1-15N-10W

EST WDFD

SPACING - 587191 1/29/2019 - G75 - (640) 1-15N-10W

VAC 176175 MNNG, MSSSD

VAC 400763 CSTR

EST MSSP

SPACING - 594508 1/29/2019 - G75 - (640) 12-15N-10W

VAC 169866 CSTR

VAC 176175 MNNG, MSSSD

EST OTHERS EXT 587191 MSSP EXT 588547 WDFD



N

1 

SURFACE HOLE DATA STATE PLANE COORDINATES:

GPS DATUM: NAD27 LAT: <u>35.78423324</u> IONG: -98.21867567

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

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

STATE PLANE COORDINATES:

**ZONE**: OK-NORTH NAD83

INFORMATION PROVIDED BY OPERATOR LISTED.

**X**: 1935138.0

**v**⋅ 285539.9

X: 1903538.5

**X**: 1934406.5

**Y**: 295607.5

X:1902806.8

Y: 295631.2

LAT: 35.811929 LONG: <u>-98.22156059</u>

**BOTTOM HOLE** 

**GPS DATUM: NAD83** 

LONG: -98.21901625

GPS DATUM: NAD27 **LAT**: 35.81188662 **LONG**: <u>-98.22121917</u>

GPS DATUM: NAD83

LAT: 35.78427699

Y: 285563.6

ZONE: OK-NORTH NAD2

GRID NORTH (NAD 27) (LAHOMA - NORTH ZONE

**OKLAHOMA** -

OPERATOR: DEVON ENERGY PRODUCTION COMPANY, L.P.

LEASE NAME: MINNIE HAHA 12\_1-15N-10W

WELL NO. 2HX

GOOD DRILL SITE: YES

**BLAINE** \_COUNTY, STATE:<u>OK</u> **GROUND ELEVATION:**1275.59' GR. AT STAKE

SURFACE HOLE FOOTAGE: 1750' FWL - 400' FSL

SECTION: 12 TOWNSHIP: T15N RANGE: R10W

BOTTOM HOLE: 1-T15N-R10W, I.M.

ACCESSIBILITY TO LOCATION: FROM SOUTH LINE

TOPOGRAPHY & VEGETATION: LOCATION FELL IN A FIELD

DISTANCE & DIRECTION FROM HWY JCT OR TOWN: AT THE JCT. OF HWY 8 & HWY E, E. 11 MI. TO N 2680 RD.

S. 4 MI. TO E 0850 RD. E. 1600 FEET. PAD IS ON N. SIDE OR

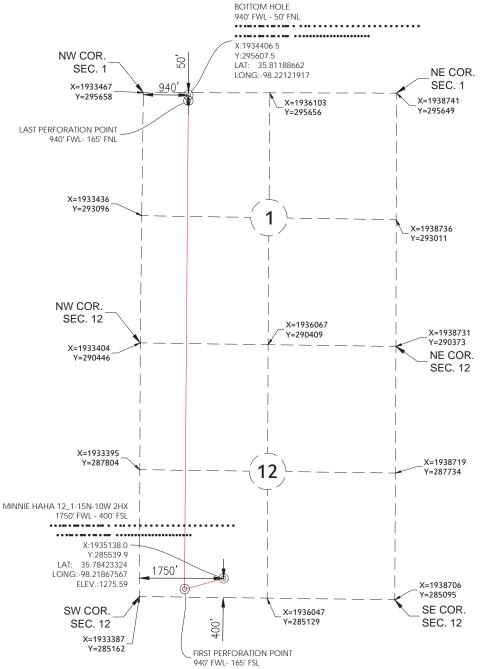
PLEASE NOTE THAT THIS LOCATION WAS STAKED ON THE GROUND UNDER THE SUPERVISION OF A LICENSED PROFESSIONAL LAND SURVEYOR, BUT ACCURACY OF THIS EXHIBIT IS NOT GUARANTEED. PLEASE CONTACT CRAFTON TULL PROMPTLY IF ANY INCONSISTENCY IS DETERMINED, GPS DATA IS OBSERVED FROM RIX-GPS.

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.

API 011-24165

\_ COUNTY, OKLAHOMA <u> 1750' FWL - 400' FSL</u> **SECTION** <u>12</u> **TOWNSHIP** <u>15N</u> **RANGE** <u>10W</u> **I.M**.





**GRAPHIC SCALE IN FEET** 2000 1000 0 2000

REVISION	"MINN			
	PART OF THE SW/4 OF SECTION 12, T-15-N, R-10-W PROPOSED DRILL SITE BLAINE COUNTY, OKLAHOMA			devon
	SCALE: 1" = 2000' PLOT DATE: 11-30-2018	DRAWN BY:	JJ SHEET NO.:	1 OF 6