

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

API NUMBER: 073 26410

Approval Date: 01/09/2019

Expiration Date: 07/09/2020

Horizontal Hole  
Oil & Gas  
Multi Unit

PERMIT TO DRILL

WELL LOCATION: Sec: 16 Twp: 15N Rge: 9W County: KINGFISHER

SPOT LOCATION: ☐ SE ☐ SW ☐ SW ☐ SE FEET FROM QUARTER: FROM SOUTH FROM EAST

SECTION LINES: 265 2006

Lease Name: HAROLD 16\_9-15N-9W Well No: 2HX Well will be 265 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

GRACIE I. MAJOR & LARRY D. MAJOR 1992 LIVING TRUST  
ROUTE 2 BOX 169  
WATONGA OK 73772

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

Name	Depth	Name	Depth
1 MISSISSIPPIAN	8909	6	
2 WOODFORD	10318	7	
3		8	
4		9	
5		10	

Spacing Orders: 660240  
657991

Location Exception Orders:

Increased Density Orders:

Pending CD Numbers: 201809863  
201809864  
201809862  
201809861

Special Orders:

Total Depth: 20064

Ground Elevation: 1207

Surface Casing: 1999

Depth to base of Treatable Water-Bearing FM: 440

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: 18-35883

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 09 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: 1436

Depth of Deviation: 9390

Radius of Turn: 477

Direction: 350

Total Length: 9924

Measured Total Depth: 20064

True Vertical Depth: 10318

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

### Notes:

#### Category

#### Description

#### DEEP SURFACE CASING

11/29/2018 - 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

11/29/2018 - 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](http://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](http://FRACFOCUS.ORG)

#### INTERMEDIATE CASING

11/29/2018 - 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

11/29/2018 - G71 - 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.

073 26410 HAROLD 16\_9-15N-9W 2HX

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.

Category	Description
PENDING CD - 201809861	1/4/2019 - G58 - 9-15N-9W X657991 MSSP 4 WELLS NO OP. NAMED HEARING 1/15/2019
PENDING CD - 201809862	1/4/2019 - G58 - 16-15N-9W X660240 MSSP 4 WELLS NO OP. NAMED HEARING 1/15/2019
PENDING CD - 201809863	1/4/2019 - G58 - (E.O.) 16 & 9-15N-9W EST MULTIUNIT HORIZONTAL WELL X657991 MSSP, WDFD X660240 MSSP, WDFD (WDFD ADJACENT COMMON SOURCE OF SUPPLY TO MSSP) 50% 9-15N-9W 50% 16-15N-9W NO OP. NAMED REC. 11/30/2018 (MILLER)
PENDING CD - 201809864	1/4/2019 - G58 - (E.O.) 9 & 16-15N-9W X657991 MSSP, WDFD X660240 MSSP, WDFD X165:10-3-28(C)(2)(B) MAY BE CLOSER THAN 600' TO EXISTING WELL COMPL. INT. 16-15N-9W NCT 165' FSL, NCT 0' FNL, NCT 330' FWL COMPL. INT. 9-15N-9W NCT 0' FSL, NCT 165' FNL, NCT 330' FWL NO OP. NAMED REC. 11/30/2018 (MILLER)
SPACING - 657991	1/4/2019 - G58 - (640)(HOR) 9-15N-9W EXT 652808 MSSP, WDFD POE TO BHL (MSSP) NCT 660' FB POE TO BHL (WDFD) NCT 165' FNL & FSL, NCT 330' FEL & FWL (COEXIST SP. ORDER 52689 MCSTR; SP. ORDER 277176 MRMC, OSGE)
SPACING - 660240	1/4/2019 - G58 - (640)(HOR) 16-15N-9W EXT 642679 MSSP, WDFD POE TO BHL (MSSP) NCT 660' FB POE TO BHL (WDFD) NCT 165' FNL & FSL, NCT 330' FEL & FWL (COEXIST SP. ORDER 184137 MSSSD; SP ORDER 137756 MNNG; SP. ORDER 61960 CSTRU)

This permit does not address the right of entry or settlement of surface damages.

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**Crafton Tull**  
SURVEYING CA973(PF/LS) Exp. 6/30/20

OPERATOR: DEVON ENERGY PRODUCTION COMPANY, L.P.

LEASE NAME: HAROLD 16\_9-15N-9W  
WELL NO. 2HX  
GOOD DRILL SITE: YES  
KINGFISHER COUNTY, STATE: OK  
GROUND ELEVATION: 1207.66' GR. AT STAKE  
SURFACE HOLE FOOTAGE: 2006' FEL - 265' FSL  
SECTION: 16 TOWNSHIP: T15N RANGE: R9W  
BOTTOM HOLE: 9-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 OKARCHIE, GO WEST ON E0890 RD 10 MILES TO  
N2720 RD, THEN NORTH 3 MILES TO E0860 RD, THEN WEST  
0.8 MILES. PAD IS ON THE NORTH SIDE OF THE 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 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.

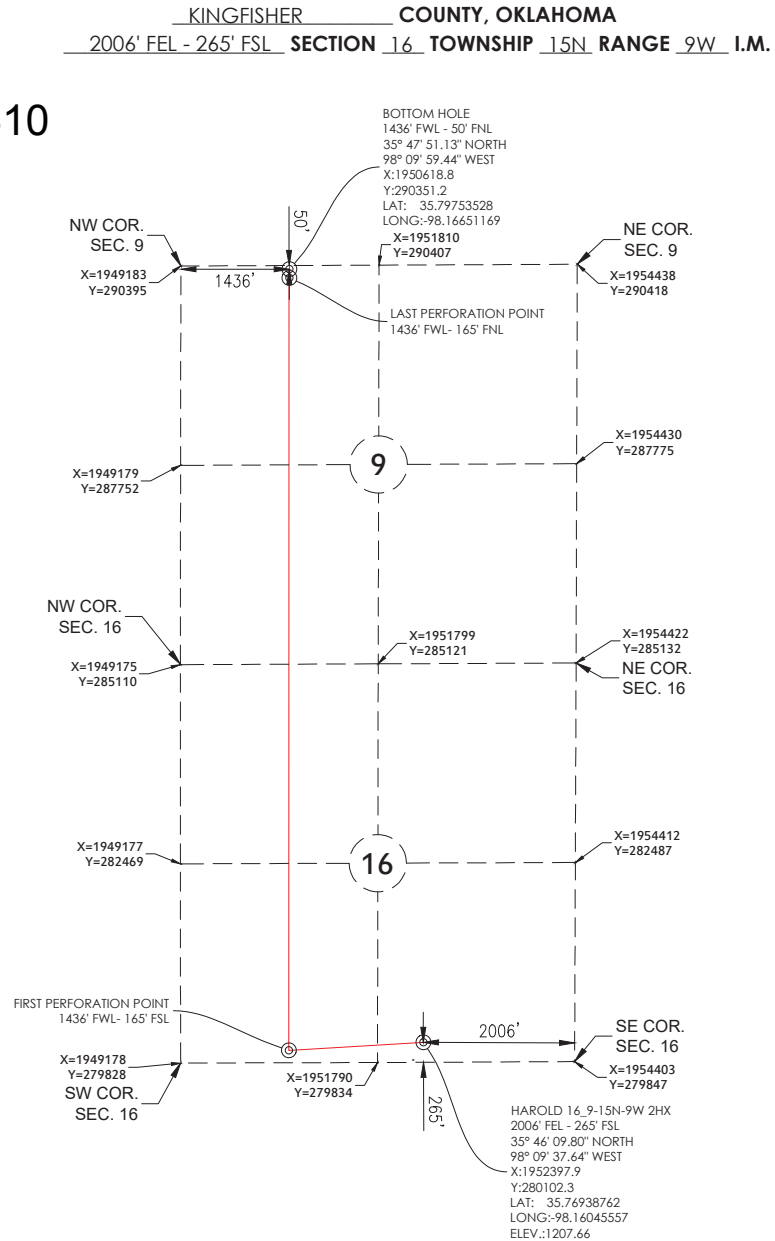


073-26410

**SURFACE HOLE DATA**  
STATE PLANE COORDINATES:  
ZONE: OK-NORTH NAD27  
X: 1952397.9  
Y: 280102.3  
GPS DATUM: NAD27  
LAT: 35.76938762  
LONG: -98.16045557  
STATE PLANE COORDINATES:  
ZONE: OK-NORTH NAD83  
X: 1920798.8  
Y: 280126.0  
GPS DATUM: NAD83  
LAT: 35.76943189  
LONG: -98.16079346


**BOTTOM HOLE DATA**  
STATE PLANE COORDINATES:  
ZONE: OK-NORTH NAD27  
X: 1950618.8  
Y: 290351.2  
GPS DATUM: NAD27  
LAT: 35.79753528  
LONG: -98.16651169  
STATE PLANE COORDINATES:  
ZONE: OK-NORTH NAD83  
X: 1919019.3  
Y: 290374.9  
GPS DATUM: NAD83  
LAT: 35.79757883  
LONG: -98.16685117  
BOTTOM HOLE  
INFORMATION PROVIDED  
BY OPERATOR LISTED.

Date: 2018.10.26 11:10:37-05'00'



GRAPHIC SCALE IN FEET



REVISION		"HAROLD 16_9-15N-9W 2HX"		
		PART OF THE SE/4 OF SECTION 16, T-15-N, R-9-W PROPOSED DRILL SITE KINGFISHER COUNTY, OKLAHOMA		
		SCALE: 1" = 2000'		
		PLOT DATE: 10-25-2018	DRAWN BY: JJ	SHEET NO.: 1 OF 6

OPERATOR: DEVON ENERGY PRODUCTION COMPANY, L.P.

LEASE NAME: HAROLD 16\_9-15N-9W

WELL NO. 2HX

GOOD DRILL SITE: YES

KINGFISHER COUNTY, STATE: OK

GROUND ELEVATION: 1207.66' GR. AT STAKE

SURFACE HOLE FOOTAGE: 2006' FEL - 265' FSL

SECTION: 16 TOWNSHIP: T15N RANGE: R9W

BOTTOM HOLE: 9-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 OKARCHE, GO WEST ON E0890 RD 10 MILES TO  
N2720 RD, THEN NORTH 3 MILES TO E0860 RD, THEN WEST  
0.8 MILES. PAD IS ON THE NORTH SIDE OF THE ROAD.

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X: 1952397.9

Y: 280102.3

GPS DATUM: NAD27

LAT: 35.76938762

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GPS DATUM: NAD83

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**BOTTOM HOLE DATA**

STATE PLANE COORDINATES:

ZONE: OK-NORTH NAD27

X: 1950618.8

Y: 290351.2

GPS DATUM: NAD27

LAT: 35.79753528

LONG: -98.16651169

STATE PLANE COORDINATES:

ZONE: OK-NORTH NAD83

X: 1919019.3

Y: 290374.9

GPS DATUM: NAD83

LAT: 35.79757883

LONG: -98.16685117

BOTTOM HOLE  
INFORMATION PROVIDED  
BY OPERATOR LISTED.

Date: 2018.10.28 11:10:33-0500'




KINGFISHER COUNTY, OKLAHOMA  
2006' FEL - 265' FSL SECTION 16 TOWNSHIP 15N RANGE 9W I.M.



GRAPHIC SCALE IN FEET



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**LONG:** -98.16685117

**BOTTOM HOLE**  
**INFORMATION PROVIDED**  
**BY OPERATOR LISTED.**

Date: 2018.10.26 11:10:29-05'00'



**OPERATOR:** DEVON ENERGY PRODUCTION COMPANY, L.P.

**LEASE NAME:** HAROLD 16\_9-15N-9W

**WELL NO.** 2HX

**GOOD DRILL SITE:** YES

**KINGFISHER COUNTY, STATE:** OK

**GROUND ELEVATION:** 1207.66' GR. AT STAKE

**SURFACE HOLE FOOTAGE:** 2006' FEL - 265' FSL

**SECTION:** 16 **TOWNSHIP:** T15N **RANGE:** R9W

**BOTTOM HOLE:** 9-T15N-R9W I.M.

**ACCESSIBILITY TO LOCATION:** FROM SOUTH LINE

**TOPOGRAPHY & VEGETATION:**

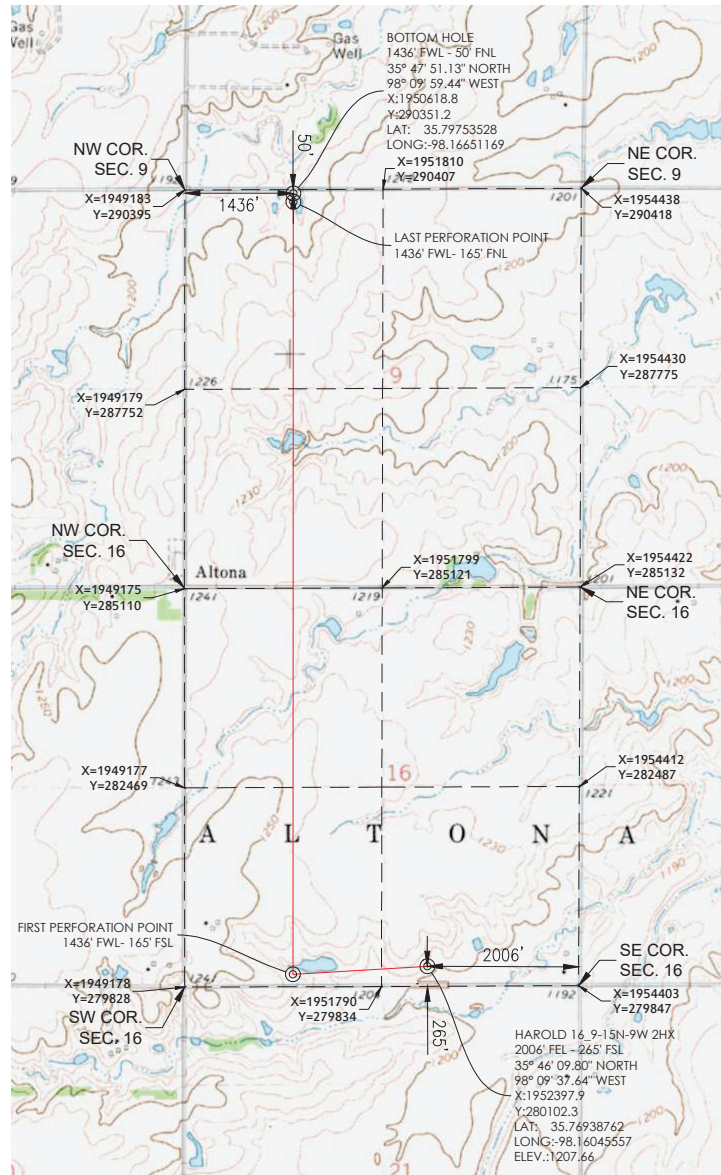
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KINGFISHER COUNTY, OKLAHOMA  
2006' FEL - 265' FSL SECTION 16 TOWNSHIP 15N RANGE 9W I.M.



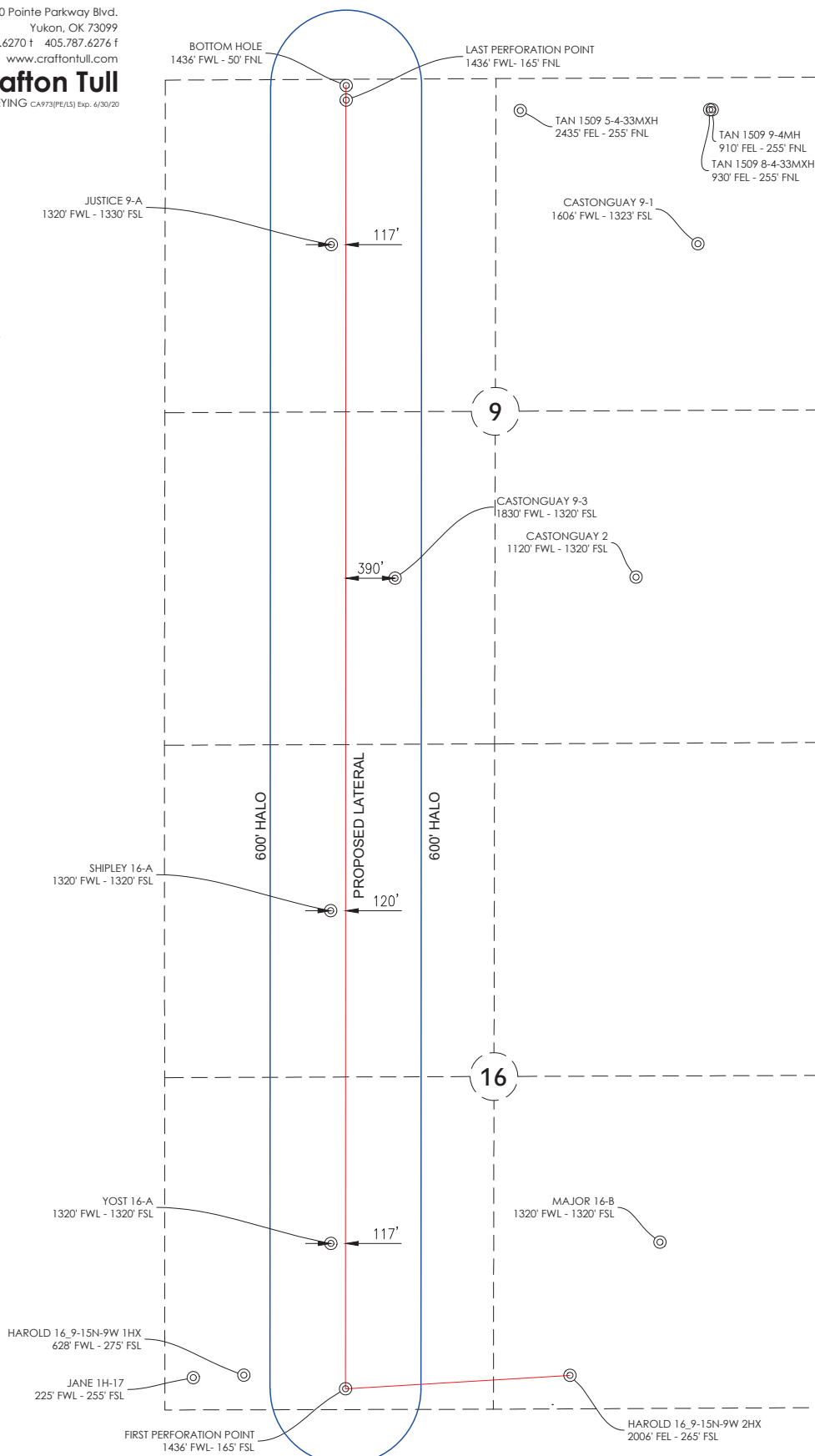
GRAPHIC SCALE IN FEET



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		PART OF THE SE/4 OF SECTION 16, T-15-N, R-9-W PROPOSED DRILL SITE KINGFISHER COUNTY, OKLAHOMA		
		SCALE: 1" = 2000'		
		PLOT DATE: 10-25-2018	DRAWN BY: JJ SHEET NO.: 3 OF 6	



BOTTOM HOLE INFORMATION PROVIDED BY OPERATOR LISTED.  
EXISTING WELL LOCATIONS TAKEN FROM CORPORATION  
COMMISSION RECORDS AND MAY NOT ENCOMPASS ALL WELLS  
CURRENTLY PERMITTING OR OTHERWISE ABSENT FROM THE RECORDS  
AT THE TIME OF THIS EXHIBIT.

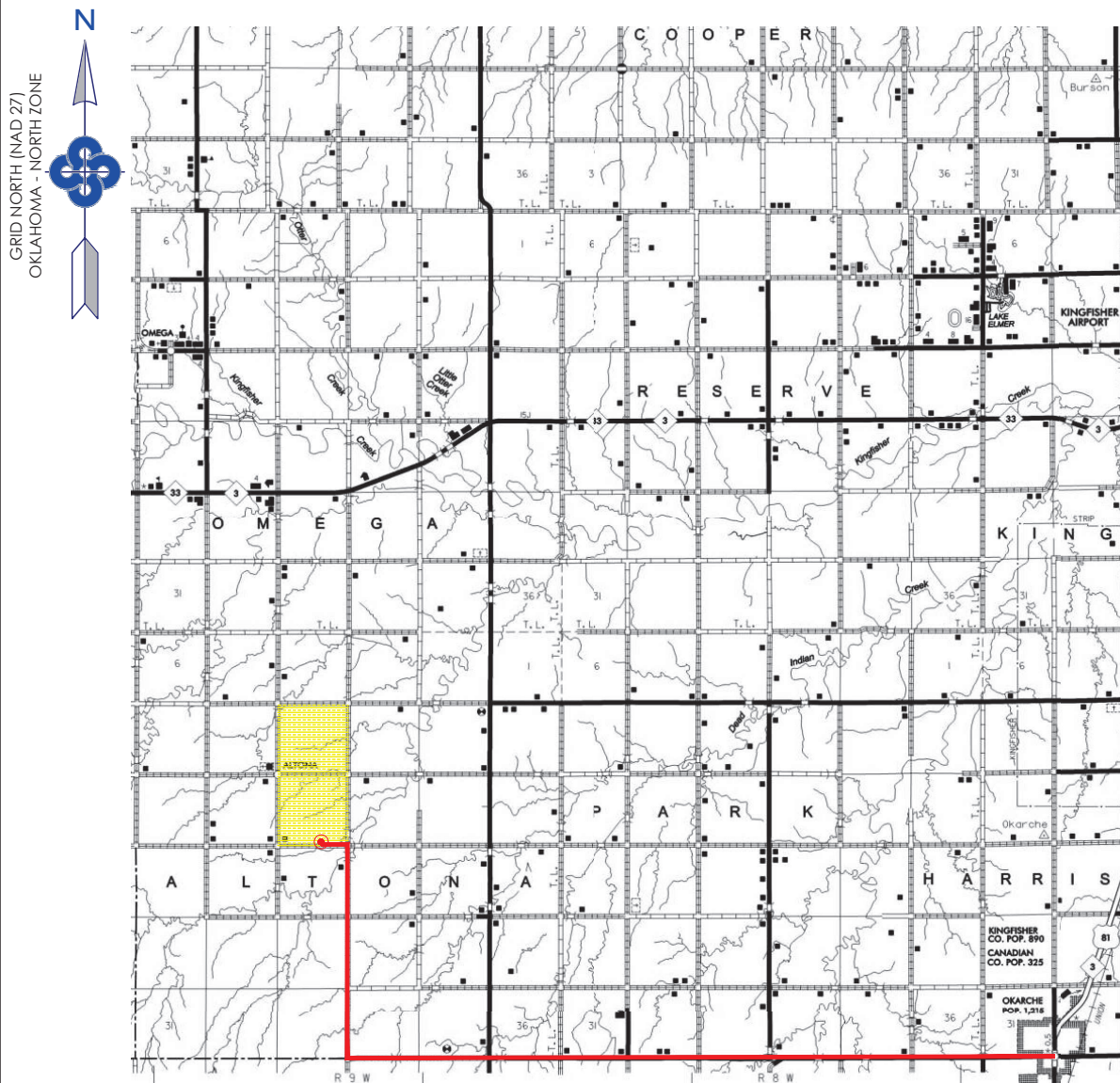


REVISION		GRAPHIC SCALE IN FEET		
		1000 500 0 1000		
		"HAROLD 16, 9-15N-9W 2HX" PART OF THE SE/4 OF SECTION 16, T-15-N, R-9-W KINGFISHER COUNTY, OKLAHOMA EXISTING WELL PROXIMITY		
		SCALE: 1" = 1000'	PLOT DATE: 10-25-2018	
		DRAWN BY:	JJ	
		SHEET NO.: 4 OF 6		



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## VICINITY MAP







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## VICINITY MAP SCALE: 1" = 1000'

16

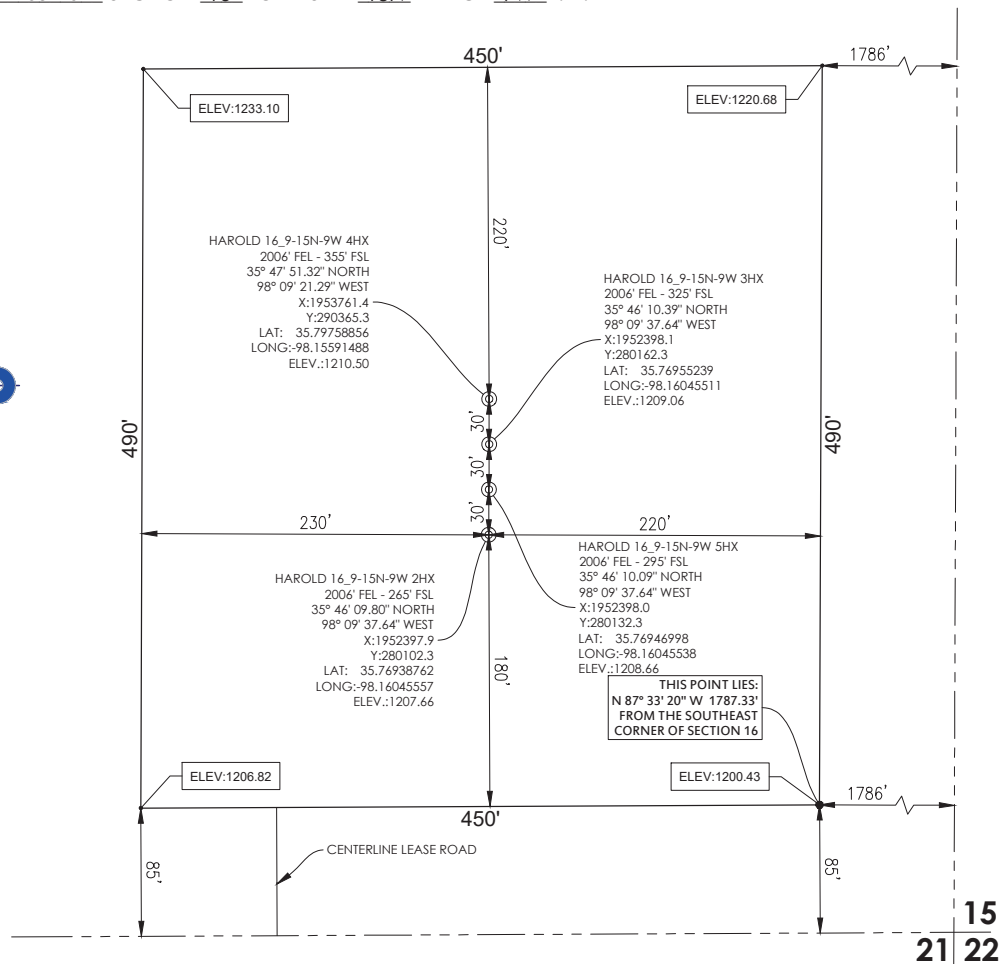
R 9 W

T 15 N

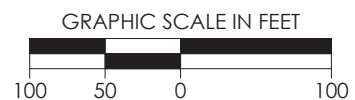
HAROLD 16\_9-15N-9W 2HX  
2006' FEL - 265' FSL  
35° 46' 09.80" NORTH  
98° 09' 37.64" WEST  
X:1952397.9  
Y:280102.3  
LAT: 35.76938762  
LONG:-98.16045557  
ELEV.:1207.66

15  
21 22

KINGFISHER COUNTY, OKLAHOMA  
2006' FEL - 265' FSL SECTION 16 TOWNSHIP 15N RANGE 9W I.M.



## PROPOSED PAD V-Door WEST



REVISION		"HAROLD 16_9-15N-9W 2HX"	
		PART OF THE SE/4 OF SECTION 16, T-15-N, R-9-W PROPOSED PAD SITE KINGFISHER COUNTY, OKLAHOMA	
		SCALE: 1" = 100'	
		PLOT DATE: 10-25-2018	DRAWN BY: JJ
		SHEET NO.: 6 OF 6	

**devon**