

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

API NUMBER: 011 23978

Approval Date: 03/29/2018

Expiration Date: 09/29/2018

Horizontal Hole Oil & Gas

PERMIT TO DRILL

WELL LOCATION: Sec: 35 Twp: 16N Rge: 12W

County: BLAINE

SPOT LOCATION:

FEET FROM QUARTER: FROM SOUTH FROM WEST

SECTION LINES: 219 237

Lease Name: MOOSE 35_26-16N-12W

Well No: 2HX

Well will be 219 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
PO BOX 2098
OKLAHOMA CITY, OK 73101

DOROTHY & KENNETH BREWER
108 BOSTON DRIVE
WATONGA OK 73772

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

	Name	Depth	Name	Depth
1	MISSISSIPPIAN	10023	6	
2	MISSISSIPPI SOLID	11034	7	
3	WOODFORD	11803	8	
4			9	
5			10	

Spacing Orders: 587631
656974
663595

Location Exception Orders: 663596

Increased Density Orders:

Pending CD Numbers:

Special Orders:

Total Depth: 21300

Ground Elevation: 1506

Surface Casing: 1999

Depth to base of Treatable Water-Bearing FM: 150

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: 8000 Average: 5000

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

D. One time land application -- (REQUIRES PERMIT)

PERMIT NO: 18-34202

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: DOG CREEK

HORIZONTAL HOLE 1

Sec 26 Twp 16N Rge 12W County BLAINE

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: 10718

Radius of Turn: 477

Direction: 1

Total Length: 9832

Measured Total Depth: 21300

True Vertical Depth: 11803

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

Notes:

Category

Description

DEEP SURFACE CASING

3/26/2018 - 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

3/26/2018 - 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

3/26/2018 - 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

LOCATION EXCEPTION - 663596

3/27/2018 - G56 - (I.O.) 26 & 35-16N-12W
X587631 MSSP, WDFD (35-16N-12W)
X656974 MSSSD, WDFD (26-16N-12W)
COMPL. INT. (35-16N-12W) NCT 165' FSL, NCT 0' FNL, NCT 330' FWL
COMPL. INT. (26-16N-12W) NCT 0' FSL, NCT 165' FNL, NCT 330' FWL
DEVON ENERGY PROD. CO. LP.
5-11-17

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

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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.

011 23978 MOOSE 35_26-16N-12W 2HX

Category	Description
MEMO	3/26/2018 - G71 - PITS 1 & 2 - CLOSED SYSTEM=STEEL PITS PER OPERATOR REQUEST, PIT 2 - OBM RETURNED TO VENDOR, CUTTINGS PERMITTED PER DISTRICT
SPACING - 587631	3/27/2018 - G56 - (640) 35-16N-12W VAC. 184284 CSTR, MSSSD EXT. 578911 MSSP, WDFD
SPACING - 656974	3/27/2018 - G56 - (640) (HOR) 26-16N-12W EST. MSSSD, WDFD, OTHER COMPL. INT. (MSSSD) NLT 660' FB COMPL. INT (WDFD) NLT 165' FNL/FSL, NLT 330' FEL/FWL (COEXIST WITH SP. ORDER #421639 MSSSD)
SPACING - 663595	3/27/2018 - G56 - (I.O.) 26 & 35-16N-12W EST. MULTIUNIT HOR. WELL X587631 MSSP, WDFD (35-16N-12W) X656974 MSSSD, WDFD (26-16N-12W) (WDFD IS AN ADJACENT COMMON SOURCE OF SUPPLY TO MSSP AND MSSD) 50% (35-16N-12W) 50% (26-16N-12W) NO OP. NAMED 5-11-17

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



Crafton Tull
SURVEYING CA973(PF/LS) Exp. 6/30/18

OPERATOR:DEVON ENERGY PRODUCTION COMPANY, L.P.

LEASE NAME:MOOSE 35_26-16N-12W
WELL NO. 2HX
GOOD DRILL SITE:YES
BLAINE COUNTY, STATE:OK
GROUND ELEVATION:1506.18' GR. AT STAKE
SURFACE HOLE FOOTAGE:237' FWL - 219' FSL
SECTION: 35 TOWNSHIP:T16N RANGE:R12W
BOTTOM HOLE:26-T16N-R12W,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 US-270 & OK-3, HEAD SOUTH 3MI TO
E840RD, HEAD WEST 1.8MI± TO N2550RD, HEAD NORTH 1MI
TO THE INTER. WITH E830RD SITE IS ON THE NE CORNER.

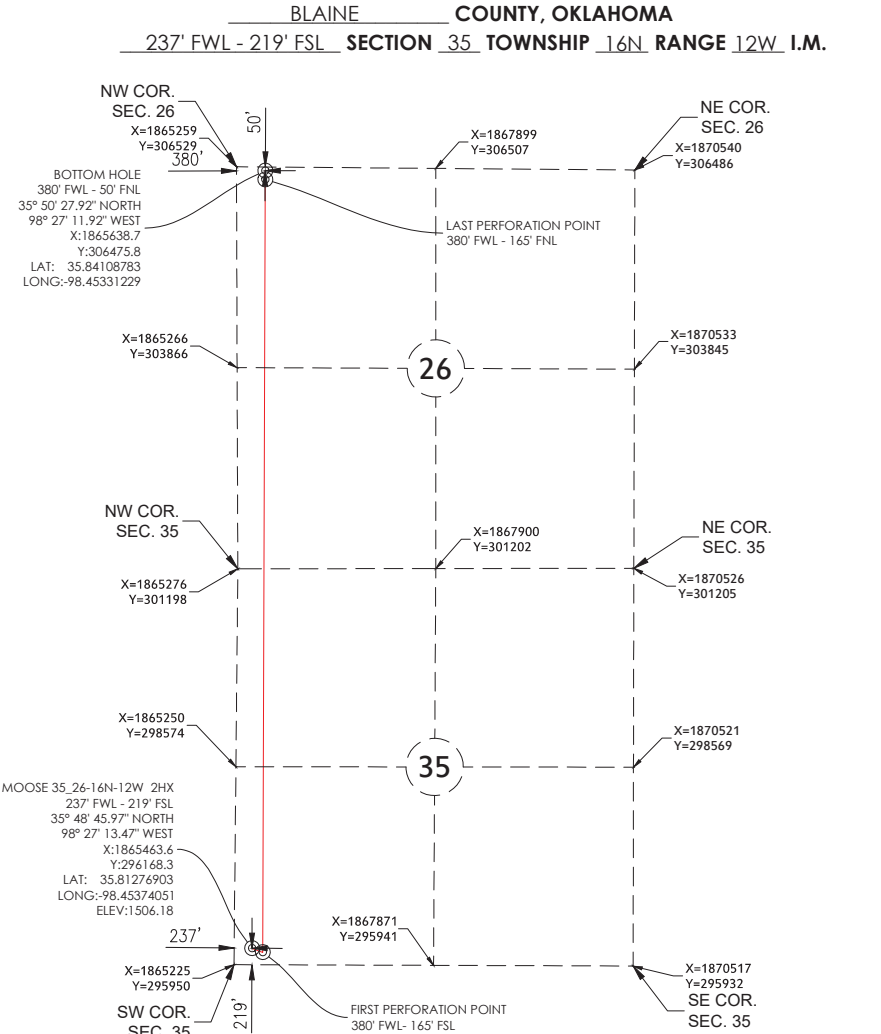
PLEASE NOTE THAT THIS LOCATION WAS STAKED ON THE GROUND UNDER THE SUPERVISION OF A
LICENSED PROFESSIONAL LAND SURVEYOR. BUT ACCURACY OF THIS EXHIBIT IS NOT GUARANTEED.
PLEASE CONTACT CRAFTON TULL PROMPTLY IF ANY INCONSISTENCY IS DETERMINED. GPS DATA IS
OBSERVED FROM RTK-GPS.
NOTE: X AND Y DATA SHOWN 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,
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SURFACE HOLE DATA
STATE PLANE COORDINATES:
ZONE: OK-NORTH NAD27
X: 1865463.6
Y: 296168.3
GPS DATUM: NAD27
LAT: 35.81276903
LONG: -98.45374051
STATE PLANE COORDINATES:
ZONE: OK-NORTH NAD83
X: 183386.2
Y: 296192.8
GPS DATUM: NAD83
LAT: 35.81281345
LONG: -98.45409166

BOTTOM HOLE DATA
STATE PLANE COORDINATES:
ZONE: OK-NORTH NAD27
X: 1865638.7
Y: 306475.8
GPS DATUM: NAD27
LAT: 35.84108783
LONG: -98.45331229
STATE PLANE COORDINATES:
ZONE: OK-NORTH NAD83
X: 1834037.7
Y: 306500.3
GPS DATUM: NAD83
LAT: 35.84113149
LONG: -98.45366399

BOTTOM HOLE
INFORMATION PROVIDED
BY OPERATOR LISTED.



REVISION		"MOOSE 35_26-16N-12W 2HX"	
		PART OF THE SW/4 OF SECTION 35, T-16-N, R-12-W PROPOSED DRILL SITE BLAINE COUNTY, OKLAHOMA	
		SCALE: 1" = 2000'	
		PLOT DATE: 03-29-2017	DRAWN BY: SQ SHEET NO.: 1 OF 6



SHEET NO.: 1 OF 6



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Crafton Tull
SURVEYING CA973(PE/LS) Exp. 6/30/18

OPERATOR:DEVON ENERGY PRODUCTION COMPANY, L.P.

LEASE NAME:MOOSE 35_26-16N-12W

WELL NO. 2HX

GOOD DRILL SITE:YES

BLAINE COUNTY, STATE:OK

GROUND ELEVATION:1506.18' GR. AT STAKE

SURFACE HOLE FOOTAGE:237' FWL - 219' FSL

SECTION: 35 TOWNSHIP:T16N RANGE:R12W

BOTTOM HOLE:26-T16N-R12W,I.M.

ACCESSIBILITY TO LOCATION:FROM SOUTH LINE

TOPOGRAPHY & VEGETATION:

LOCATION FELL IN A FIELD

DISTANCE & DIRECTION FROM HWY JCT OR TOWN:

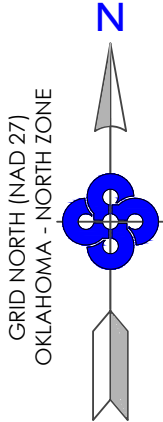
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GRID NORTH (NAD 27)
OKLAHOMA - NORTH ZONE

SURFACE HOLE DATA

STATE PLANE COORDINATES:

ZONE: OK-NORTH NAD27

X: 1865463.6

Y: 296168.3

GPS DATUM: NAD27

LAT: 35.81276903

LONG: -98.45374051

STATE PLANE COORDINATES:

ZONE: OK-NORTH NAD83

X: 183386.2

Y: 296192.8

GPS DATUM: NAD83

LAT: 35.81281345

LONG: -98.45409166

BOTTOM HOLE DATA

STATE PLANE COORDINATES:

ZONE: OK-NORTH NAD27

X: 1865638.7

Y: 306475.8

GPS DATUM: NAD27

LAT: 35.84108783

LONG: -98.45331229

STATE PLANE COORDINATES:

ZONE: OK-NORTH NAD83

X: 1834037.7

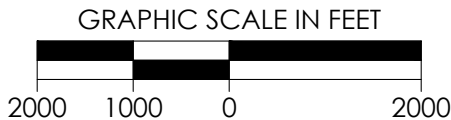
Y: 306500.3


GPS DATUM: NAD83

LAT: 35.84113149

LONG: -98.45366399

BOTTOM HOLE
INFORMATION PROVIDED
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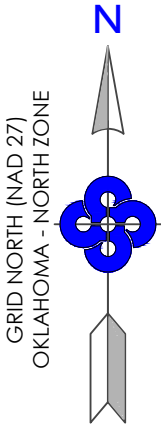


REVISION		"MOOSE 35_26-16N-12W 2HX"			
		PART OF THE SW/4 OF SECTION 35, T-16-N, R-12-W PROPOSED DRILL SITE BLAINE COUNTY, OKLAHOMA			
		SCALE: 1" = 2000'	DRAWN BY: SQ		SHEET NO.: 2 OF 6
		PLOT DATE: 03-29-2017			



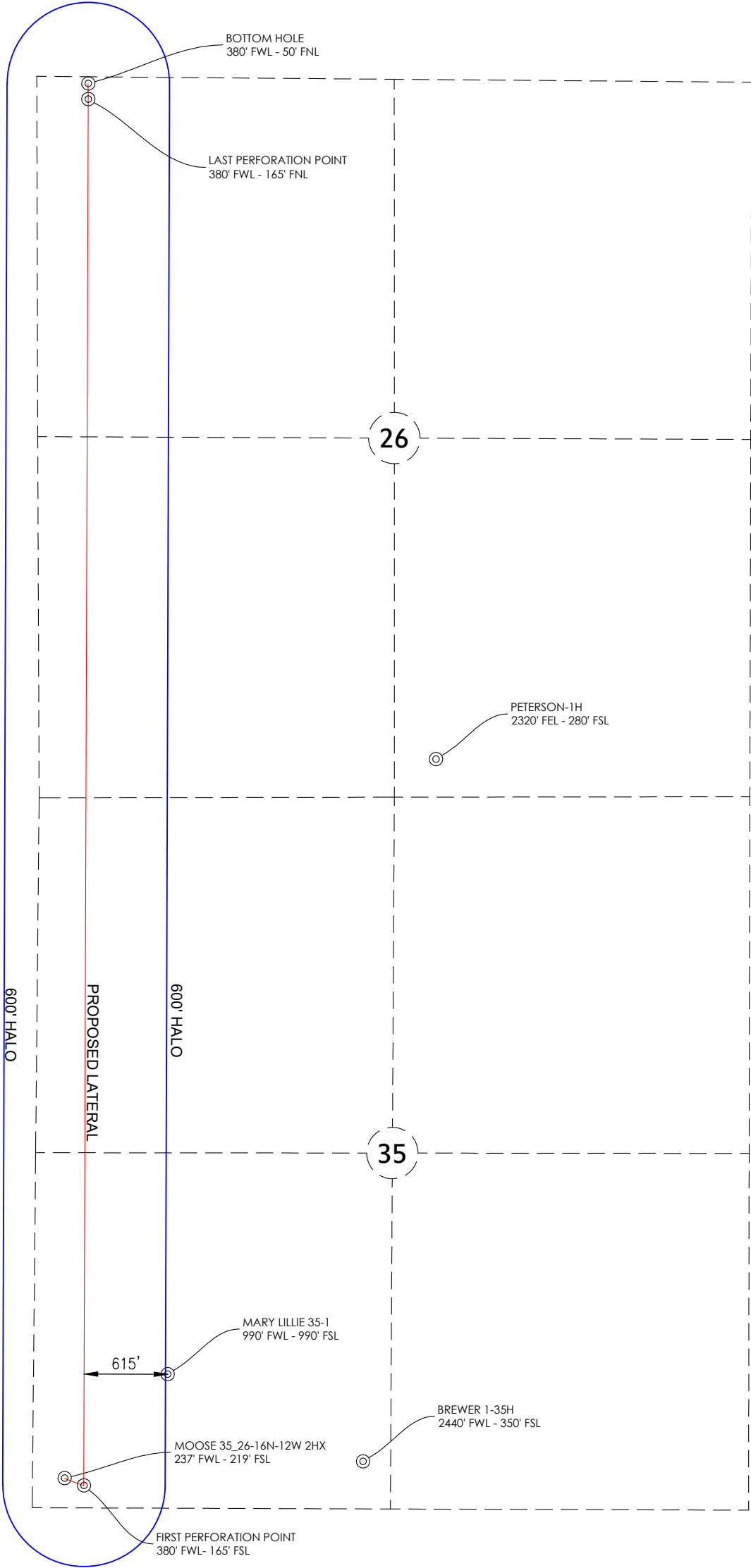
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GRID NORTH (NAD 27)
OKLAHOMA - NORTH ZONE

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		 devon
				
		"MOOSE 35_26-16N-12W 2HX"		
		PART OF THE SW/4 OF SECTION 35, T-16-N, R-12-W		
		BLAINE COUNTY, OKLAHOMA EXISTING WELL PROXIMITY		
		SCALE: 1" = 1000'	DRAWN BY:	SQ SHEET NO.: 4 OF 6
		PLOT DATE: 03-29-2017		

