

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

API NUMBER: 019 26276

Approval Date: 06/14/2017
Expiration Date: 12/14/2017

Horizontal Hole Oil & Gas

PERMIT TO DRILL

WELL LOCATION: Sec: 30 Twp: 3S Rge: 2W County: CARTER
SPOT LOCATION: NW NE SE SE FEET FROM QUARTER: FROM SOUTH FROM EAST
SECTION LINES: 1090 565

Lease Name: DOC BROWN Well No: 2-30-19XH Well will be 565 feet from nearest unit or lease boundary.
Operator Name: AVALON OPERATING LLC Telephone: 9185230600 OTC/OCC Number: 23929 0

AVALON OPERATING LLC
15 W 6TH ST STE 2300
TULSA, OK 74119-5401

GARY BROWN & WYNONA BROWN
495 COUNTY ROAD 1570
RUSH SPRINGS OK 73082

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

Name	Depth	Name	Depth
1 WOODFORD	7750	6	
2 HUNTON (LS CHIMNEY HILL)	8150	7	
3		8	
4		9	
5		10	

Spacing Orders: 643868
647308

Location Exception Orders:

Increased Density Orders:

Pending CD Numbers: 201702961
201702967
201702962
201702965
201702966

Special Orders:

Total Depth: 17500 Ground Elevation: 958

Surface Casing: 1500

Depth to base of Treatable Water-Bearing FM: 1020

Under Federal Jurisdiction: No

Fresh Water Supply Well Drilled: No

Surface Water used to Drill: Yes

PIT 1 INFORMATION

Type of Pit System: ON SITE

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 located in a Hydrologically Sensitive Area.

Category of Pit: 2

Liner not required for Category: 2

Pit Location is BED AQUIFER

Pit Location Formation: WELLINGTON

Approved Method for disposal of Drilling Fluids:

A. Evaporation/dewater and backfilling of reserve pit.

D. One time land application -- (REQUIRES PERMIT) PERMIT NO: 17-32689

H. PIT 2 - CLOSED SYSTEM=STEEL PITS PER OPERATOR REQUEST, OBM TO VENDOR, OBM CUTTINGS PER DISTRICT

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 located in a Hydrologically Sensitive Area.

Category of Pit: C

Liner not required for Category: C

Pit Location is BED AQUIFER

Pit Location Formation: WELLINGTON

HORIZONTAL HOLE 1

Sec 19 Twp 3S Rge 2W County CARTER

Spot Location of End Point: NE NE NW NW

Feet From: NORTH 1/4 Section Line: 165

Feet From: WEST 1/4 Section Line: 1139

Depth of Deviation: 7345

Radius of Turn: 900

Direction: 334

Total Length: 8741

Measured Total Depth: 17500

True Vertical Depth: 8200

End Point Location from Lease,
Unit, or Property Line: 165

Notes:

Category

Description

DEEP SURFACE CASING

6/5/2017 - 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

6/5/2017 - G71 - OCC 165:10-3-10 REQUIRES: 1) THE CHEMICAL DISCLOSURE OF HYDRAULIC FRACTURING INGREDIENTS FOR ALL WELLS BE REPORTED TO FRACFOCUS USING THE FOLLOWING LINK [HTTP://FRACFOCUS.ORG/](http://fracfocus.org/) WITH NOTICE GIVEN 48 HOURS IN ADVANCE OF FRACTURING TO THE LOCAL OCC DISTRICT OFFICE; AND, 2) PRIOR TO COMMENCEMENT OF FRACTURING OPERATIONS FOR HORIZONTAL WELLS, NOTICE ALSO GIVEN FIVE BUSINESS DAYS IN ADVANCE TO OFFSET OPERATORS WITH WELLS COMPLETED IN THE SAME COMMON SOURCE OF SUPPLY WITHIN 1/2 MILE

PENDING CD - 201702961

6/9/2017 - G75 - (I.O.) 30 & 19-3S-2W
EST MULTIUNIT HORIZONTAL WELL
X643868 WDFD, HTLCH 30-3S-2W
X647308 WDFD, HTLCH 19-3S-2W
(HTLCH ASSOCIATED COMMON SOURCE OF SUPPLY TO WDFD)
35% 30-3S-2W
65% 19-3S-2W
NO OP. NAMED
REC 5-30-2017 (JOHNSON)

PENDING CD - 201702962

6/9/2017 - G75 - (I.O.) 30 & 19-3S-2W
X643868 WDFD, HTLCH 30-3S-2W
X647308 WDFD, HTLCH 19-3S-2W
COMPL. INT. (30-3S-2W) NCT 2600' FSL, NCT 0' FNL, NCT 301' FEL
COMPL. INT. (19-3S-2W) NCT 0' FSL, NCT 165' FNL, NCT 1139' FWL NO OP. NAMED
REC 5-30-2017 (JOHNSON)

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

019 26276 DOC BROWN 2-30-19XH

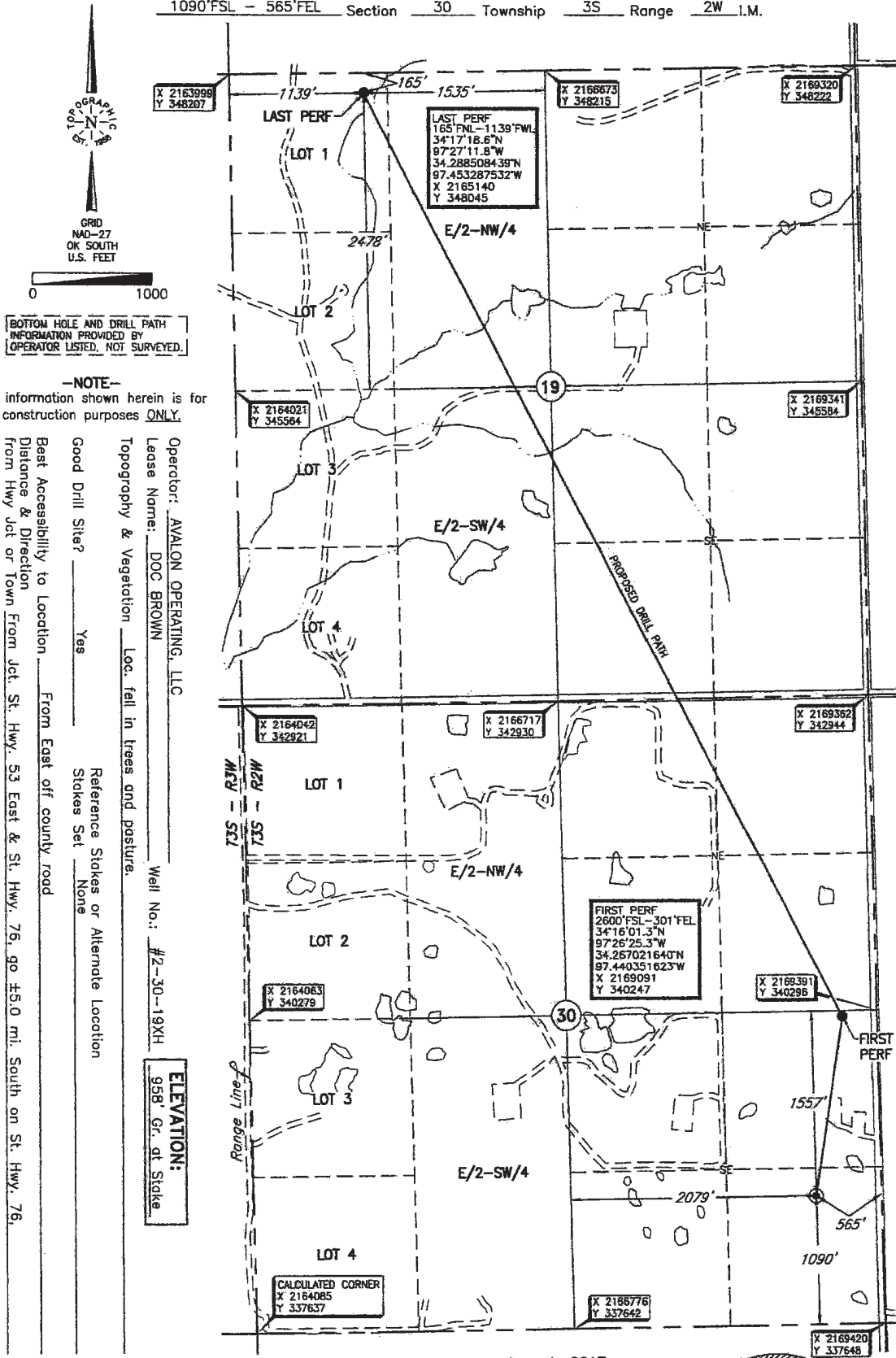
The duration of this permit is SIX MONTHS, except as otherwise provided by Rule 165: 10-3-1.

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 - 201702965	6/12/2017 - G75 - 19-3S-2W X647308 WDFD 2 WELLS NO OP. NAMED REC 5-30-2017 (JOHNSON)
PENDING CD - 201702966	6/12/2017 - G75 - 30-3S-2W X643868 WDFD 2 WELLS NO OP. NAMED REC 5-30-2017 (JOHNSON)
PENDING CD - 201702967	6/12/2017 - G75 - (I.O.) 30 & 19-3S-2W X165:10-3-28(C)(2)(B) WDFD (DOC BROWN 2-30-19XH) MAY BE CLOSER THAN 600' TO DOC BROWN 1-30-19XH & DOC BROWN 3-20-19XH AVALON RESOURCES, LLC ** REC 5-30-2017 (JOHNSON)
	** S/B AVALON OPERATING LLC; TO BE CORRECTED IN ORDER SUBMITTED TO OCC FOR REVIEW PER ATTORNEY FOR OPERATOR
SPACING - 643868	6/9/2017 - G75 - (640)(HOR) 30-3S-2W EST WDFD, HTLCH COMPL. INT. (HTLCH) NLT 660' FB COMPL. INT. (WDFD) NLT 330' FB (COEXIST SP. ORDER # 572480 WDFD, HNTN SW4)
SPACING - 647308	6/9/2017 - G75 - (640)(HOR) 19-3S-2W EST WDFD, HTLCH COMPL. INT. (HTLCH) NLT 660' FB COMPL. INT. (WDFD) NLT 165' FNL & FSL, NLT 330' FEL & FWL (COEXIST SP. ORDER # 155194 HNTN N2 & SE4, ORDER # 172434 HNTN SW4 & ORDER # 228699 WDFD)

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.

CARTER County, Oklahoma
 1090' FSL - 565' FEL Section 30 Township 3S Range 2W I.M.



BOTTOM HOLE AND DRILL PATH INFORMATION PROVIDED BY OPERATOR LISTED, NOT SURVEYED.

-NOTE-
 The information shown herein is for construction purposes ONLY.

Operator: AVALON OPERATING, LLC
 Lease Name: DOC BROWN
 Topography & Vegetation: Loc. fall in trees and pasture.
 Well No.: #2-30-19XH
 ELEVATION: 958' Gr. at Stake

Good Drill Site? Yes
 Reference Stakes or Alternate Location: Stakes Set None

Best Accessibility to Location: From East off county road
 Distance & Direction: From Hwy Jet or Town From Jet, St. Hwy. 53 East & St. Hwy. 76, go ±5.0 mi. South on St. Hwy. 76, then ±3.0 mi. East on paved road, then ±1.0 mi. South on county road to the SE Cor. of Sec. 30-T3S-R2W

DATUM: NAD-27
 LAT: 34°15'46.3"N
 LONG: 97°26'28.3"W
 LAT: 34.262874669°N
 LONG: 97.441198256°W
 STATE PLANE
 COORDINATES: (US Feet)
 ZONE: OK SOUTH
 X: 2168843
 Y: 338737

Date of Drawing: June 1, 2017 AC
 Invoice # 267855A Date Staked: Nov. 11, 2016 RKM

CERTIFICATE:
 I, Thomas L. Howell an Oklahoma Licensed Land Surveyor and an authorized agent of Topographic Land Surveyors of Oklahoma, do hereby certify to the information shown herein
Thomas L. Howell
 Oklahoma Lic. No. 1433

