

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

API NUMBER: 039 22579

Approval Date: 07/09/2019

Expiration Date: 01/09/2021

Horizontal Hole Oil & Gas

PERMIT TO DRILL

WELL LOCATION: Sec: 03 Twp: 15N Rge: 15W County: CUSTER

SPOT LOCATION: FEET FROM QUARTER: FROM NORTH FROM WEST

SECTION LINES: 186 218

Lease Name: PUTNAM OSWEGO UNIT

Well No: 1-3H

Well will be 186 feet from nearest unit or lease boundary.

Operator Name: BLAKE PRODUCTION COMPANY INC

Telephone: 4052869800

OTC/OCC Number: 18119 0

BLAKE PRODUCTION COMPANY INC
1601 NW EXPRESSWAY STE 777
OKLAHOMA CITY, OK 73118-1446

LARRY AND ELDORA HORTON
23991 EAST 930 ROAD
THOMAS OK 73669

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

Name	Depth	Name	Depth
1 OSWEGO	9545	6	
2		7	
3		8	
4		9	
5		10	

Spacing Orders: 70029

Location Exception Orders:

Increased Density Orders:

Pending CD Numbers:

Special Orders:

Total Depth: 15255

Ground Elevation: 1770

Surface Casing: 525

Depth to base of Treatable Water-Bearing FM: 310

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: 20000 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 located in a Hydrologically Sensitive Area.

Category of Pit: C

Liner not required for Category: C

Pit Location is BED AQUIFER

Pit Location Formation: RUSH SPRINGS

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

PERMIT NO: 19-36806

H. CLOSED SYSTEM=STEEL PITS PER OPERATOR REQUEST

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.

HORIZONTAL HOLE 1

Sec 33 Twp 16N Rge 15W County DEWEY

Spot Location of End Point: NW NE NW NE

Feet From: NORTH 1/4 Section Line: 1

Feet From: EAST 1/4 Section Line: 1745

Depth of Deviation: 9065

Radius of Turn: 696

Direction: 340

Total Length: 5097

Measured Total Depth: 15255

True Vertical Depth: 9545

End Point Location from Lease,

Unit, or Property Line: 1

Notes:

Category

Description

HYDRAULIC FRACTURING

7/5/2019 - 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

7/5/2019 - 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

SPACING - 70029

7/9/2019 - G56 - (UNIT) 33-16N-15W
EST PUTNAM OSWEGO UNIT FOR THE OSWG

SURFACE CASING

7/5/2019 - G71 - MIN. 500' PER ORDER 42589

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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.

039 22579 PUTNAM OSWEGO UNIT 1-3H

TOPOGRAPHIC LAND SURVEYORS OF OKLAHOMA

13800 Wireless Way, Okla. City, OK. 73134 * LOCAL (405) 843-4847 * OUT OF STATE (800) 654-3219
Certificate of Authorization No. 1293 LS

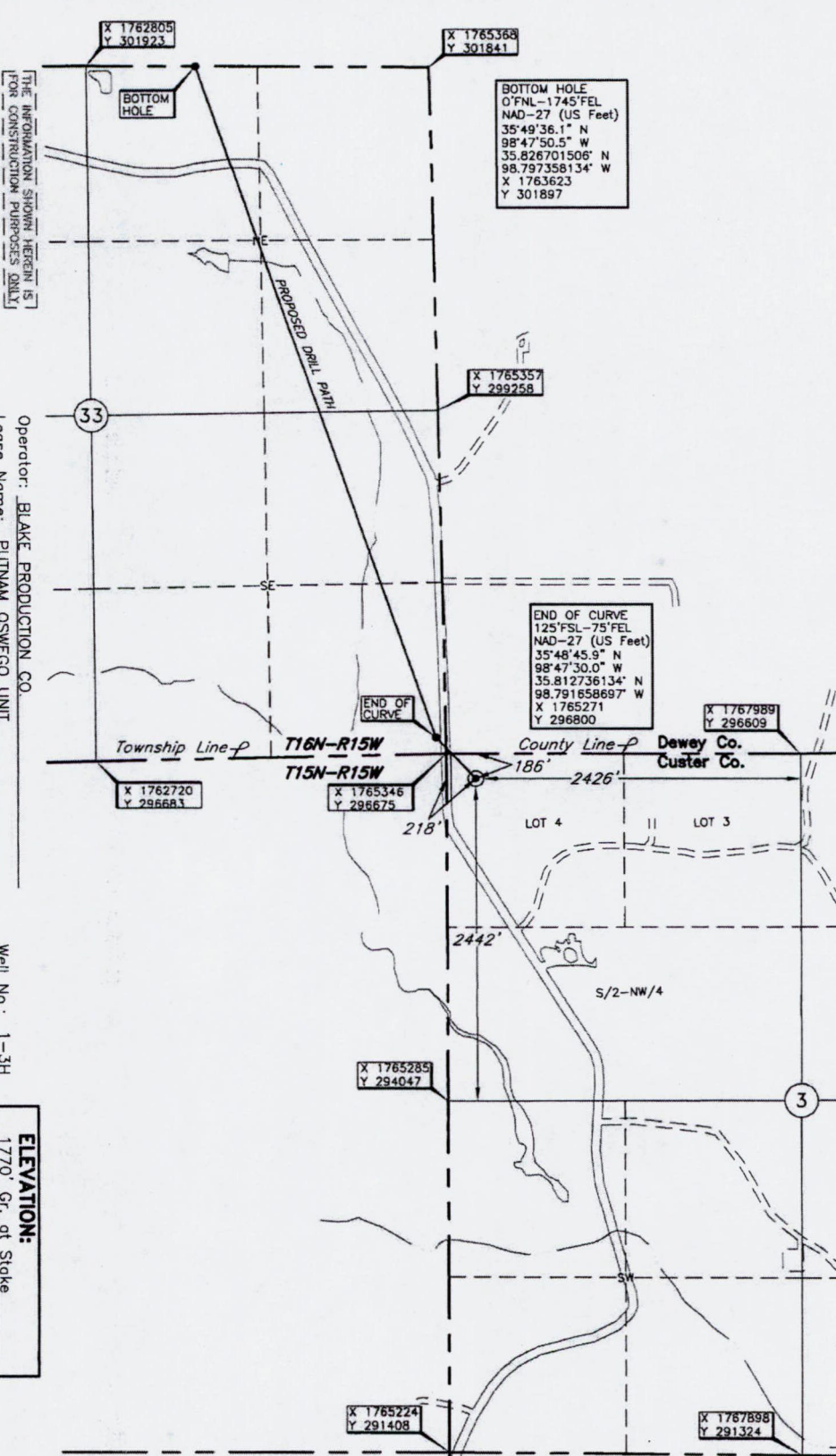
CUSTER

County, Oklahoma

186°FNL-218°FNL Section 3 Township 15N Range 15W I.M.



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



Operator: BLAKE PRODUCTION CO.
Lease Name: PUTNAM OSWEGO UNIT
Topography & Vegetation Location fell in sloped pasture
Well No.: 1-3H
ELEVATION: 1770' Gr. at Stake

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

Best Accessibility to Location From West off county road
Distance & Direction From Thomas, Okla, go ± 2 miles West on St. Hwy. 47, then ± 4 miles North to the NW Cor. of Sec. 3-115N-R15W

DATUM: NAD-27
LAT: 35°48'42.7"N
LONG: 98°47'26.4"W
LAT: 35.811873364° N
LONG: 98.790677131° W
STATE PLANE
COORDINATES: (US Feet)
ZONE: OK NORTH
X: 1765560
Y: 296483

Date of Drawing: July 3, 2019
Project #127915 Date Staked: July 2, 2019 LC

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

