

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

API NUMBER: 043 23699

Approval Date: 04/18/2019

Expiration Date: 10/18/2020

Horizontal Hole Oil & Gas

PERMIT TO DRILL

WELL LOCATION: Sec: 34 Twp: 16N Rge: 15W County: DEWEY
SPOT LOCATION: ☐ SE ☐ SW ☐ NW ☐ NE FEET FROM QUARTER: FROM NORTH FROM EAST
SECTION LINES: 1145 2300

Lease Name: PUTNAM OSWEGO UNIT Well No: 1-34H Well will be 1145 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

BRICE AND JUDITH SCHOU
100 WEST SOUTH ROAD
THOMAS OK 73669

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

Name	Depth	Name	Depth
1 OSWEGO	9395	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: 14713

Ground Elevation: 1701

Surface Casing: 310

Depth to base of Treatable Water-Bearing FM: 260

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 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: 19-36504

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 35 Twp 16N Rge 15W County DEWEY

Spot Location of End Point: SW SW SE SW

Feet From: SOUTH 1/4 Section Line: 175

Feet From: WEST 1/4 Section Line: 1570

Depth of Deviation: 9025

Radius of Turn: 412

Direction: 134

Total Length: 5040

Measured Total Depth: 14713

True Vertical Depth: 9435

End Point Location from Lease,
Unit, or Property Line: 175

Notes:

Category

Description

HYDRAULIC FRACTURING

4/13/2019 - 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

4/13/2019 - 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

4/18/2019 - GB1 - (UNIT) S2, S2 NE4 34 & SW4 35-16N-15W
EST PUTNAM OSWEGO UNIT FOR THE OSWG

TOPOGRAPHIC LAND SURVEYORS OF OKLAHOMA

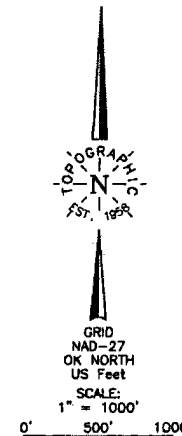
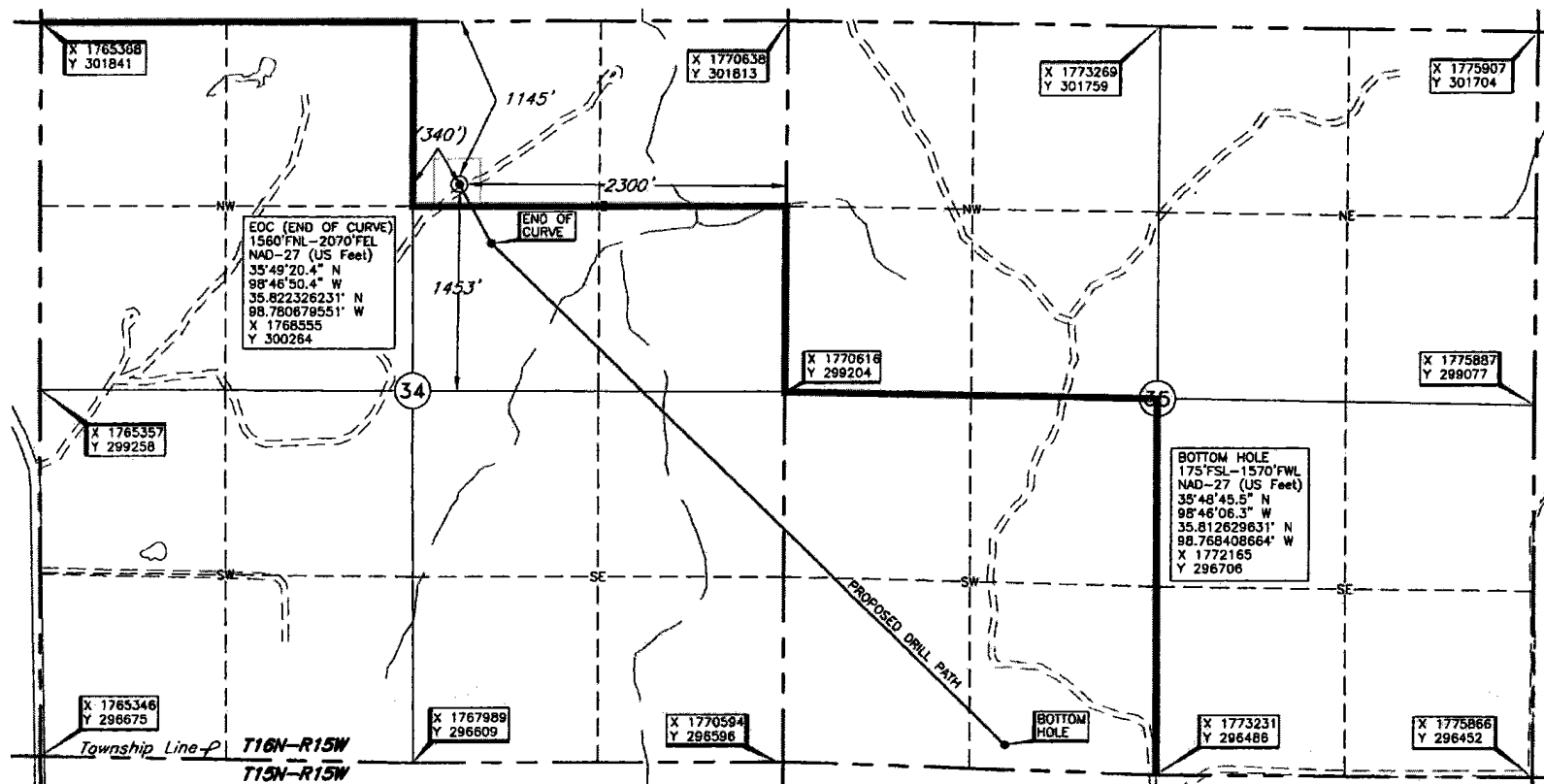
13800 Wireless Way, Okla. City, OK. 73134 • LOCAL (405) 843-4847 • OUT OF STATE (800) 654-3219

Certificate of Authorization No. 1293 LS

DEWEY

County, Oklahoma

1145' FNL-2300' FEL Section 34 Township 16N Range 15W I.M.

END OF CURVE, BOTTOM HOLE, AND DRILL PATH INFORMATION
PROVIDED BY OPERATOR LISTED, NOT SURVEYED.Distances shown in (parenthesis) are calculated based
upon the Quarter Section being 2640 feet, those shown
in [brackets] are based on GLO (General Land Office)
distances and have not been measured.(This information was
gathered with a GPS receiver
with ±1 foot Horiz./Vert. accuracy)

DATUM: NAD-27
LAT: 35°49'24.5"N
LONG: 98°46'53.2"W
LAT: 35.823464729° N
LONG: 98.781453980° W
STATE PLANE
COORDINATES: (US Feet)
ZONE: OK NORTH
X: 1768328
Y: 300680

THE INFORMATION SHOWN HEREIN IS
FOR CONSTRUCTION PURPOSES ONLY.Operator: BLAKE PRODUCTION CO.Lease Name: POUWell No.: 1-34H

ELEVATION:

1701' Gr. at Stake

Revision ☒ ADate Drawn: Apr. 11, 2019Project # 125283Date Staked: Apr. 05, 2019

LC

Topography & Vegetation Location fell in rolling pastureGood Drill Site? Yes Reference Stakes or Alternate Location
Stakes Set NoneBest Accessibility to Location From West off county roadDistance & Direction
from Hwy Jct or Town From Thomas, Okla., go ±0.6 mile North on St. Hwy. 47, then ±2.0
miles West on St. Hwy. 47, then ±4 miles North to the SW Cor. of Sec. 34-T16N-R15W

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

