

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

API NUMBER: 151 24502

Approval Date: 03/17/2017
Expiration Date: 09/17/2017

Horizontal Hole Oil & Gas

PERMIT TO DRILL

WELL LOCATION: Sec: 32 Twp: 24N Rge: 14W County: WOODS
SPOT LOCATION: SE SW SE SE FEET FROM QUARTER: FROM SOUTH FROM EAST
SECTION LINES: 260 700

Lease Name: WONDERLAND 5&8-23-14 Well No: 1H Well will be 260 feet from nearest unit or lease boundary.

Operator Name: CHESAPEAKE OPERATING LLC Telephone: 4059353425; 4059358 OTC/OCC Number: 17441 0

CHESAPEAKE OPERATING LLC
PO BOX 18496
OKLAHOMA CITY, OK 73154-0496

SARAH A. BEELEY
P.O. BOX 211
COLDWATER KS 67029

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

Name	Depth	Name	Depth
1	MISSISSIPPIAN	6650	6
2			7
3			8
4			9
5			10

Spacing Orders: 661547

Location Exception Orders:

Increased Density Orders:

Pending CD Numbers: 201700681

Special Orders:

Total Depth: 17500

Ground Elevation: 1532

Surface Casing: 1500

Depth to base of Treatable Water-Bearing FM: 150

Under Federal Jurisdiction: No

Fresh Water Supply Well Drilled: No

Surface Water used to Drill: No

PIT 1 INFORMATION

Type of Pit System: ON SITE

Type of Mud System: WATER BASED

Chlorides Max: 25000 Average: 8000

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: 1B

Liner required for Category: 1B

Pit Location is AP/TE DEPOSIT

Pit Location Formation: TERRACE

Approved Method for disposal of Drilling Fluids:

A. Evaporation/dewater and backfilling of reserve pit.

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

H. SEE MEMO

PERMIT NO: 17-32159

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: ON SITE
Type of Mud System: OIL BASED
Chlorides Max: 300000 Average: 160000
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: 3
Liner required for Category: 3
Pit Location is AP/TE DEPOSIT
Pit Location Formation: TERRACE

HORIZONTAL HOLE 1

Sec 08 Twp 23N Rge 14W County WOODS
Spot Location of End Point: SE SW SE SE
Feet From: SOUTH 1/4 Section Line: 200
Feet From: EAST 1/4 Section Line: 880
Depth of Deviation: 6321
Radius of Turn: 750
Direction: 182
Total Length: 10001
Measured Total Depth: 17500
True Vertical Depth: 6682
End Point Location from Lease,
Unit, or Property Line: 200

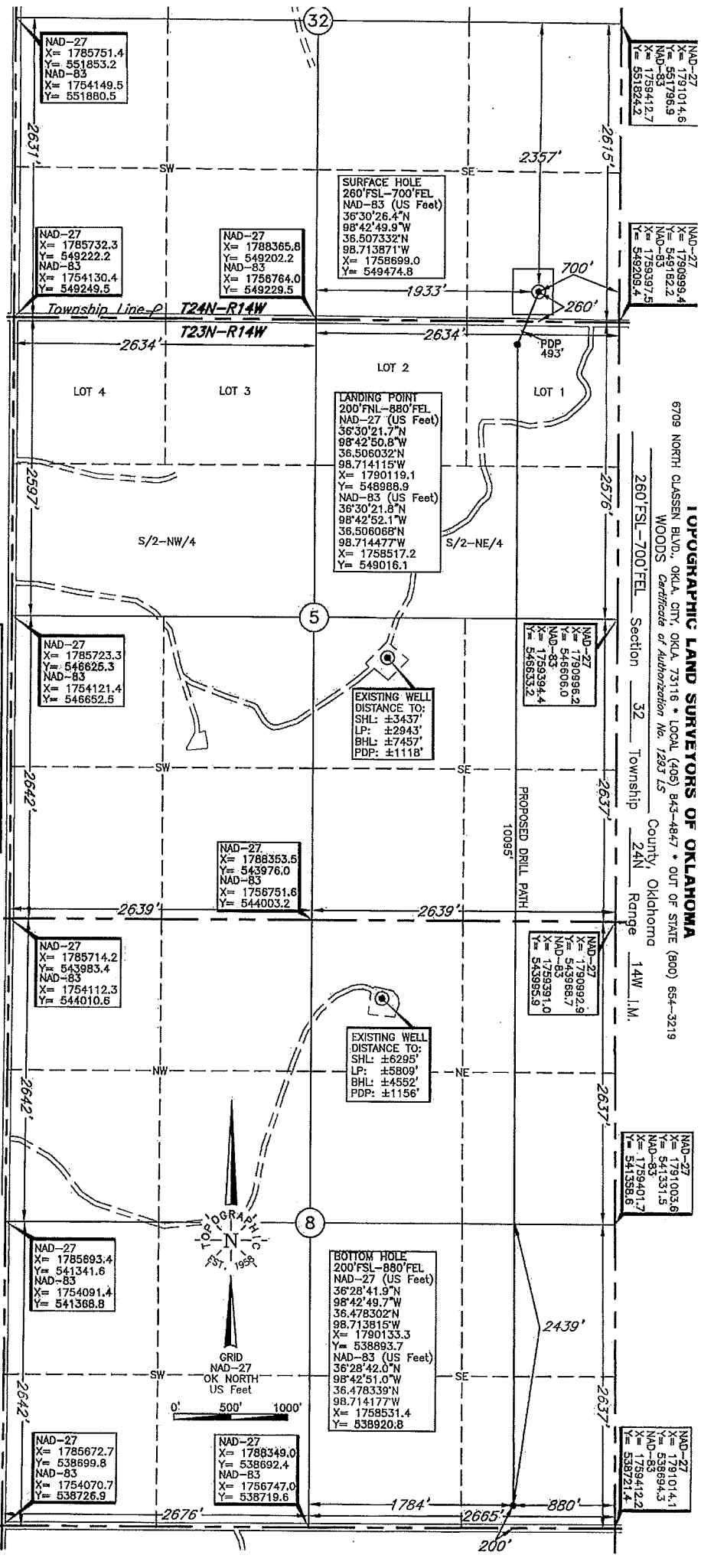
Table with 3 columns: Additional Surface Owner, Address, City, State, Zip. Rows include CHARLES FRIEND and COREY FRIEND.

Notes:

Table with 2 columns: Category, Description. Rows include DEEP SURFACE CASING, HYDRAULIC FRACTURING, MEMO, PENDING CD - 201700681, and SPACING - 661547.

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.

TOPOGRAPHIC LAND SURVEYORS OF OKLAHOMA
 6709 NORTH GLASSEN BLVD., OKLA. CITY, OKLA. 73116 • LOCAL (405) 843-4847 • OUT OF STATE (800) 654-3219
 WOODS Certificate of Authorization No. 1293 LS
 County, Oklahoma
 Township 24N Range 14W 1M.



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

ELEVATION:
 1532' Gr. at Stake NAVD29
 1532' Gr. at Stake NAVD88

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

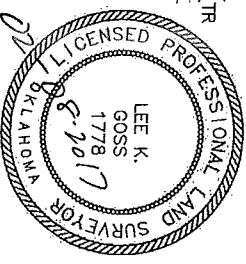
Operator: CHESAPEAKE OPERATING, L.L.C.
 Lease Name: WONDERLAND S&B-23-14
 Well No.: 1H
 Topography & Vegetation Loc. fall in rolling brushy pasture ±236' North of fence line and powerline
 Reference Stakes or Alternate Location
 Good Drill Sites? Yes Stakes Set None
 Best Accessibility to Location From the South off county road
 Distance & Direction From Jet US Hwy. 281 North and St. Hwy. 45 West, go ±3.4 mi. West on
from Hwy Jet or Town
St. Hwy. 45, then ±6.0 mi. South then ±1 mile east to the SE Cor. of Sec. 32-T24N-R14W

DATUM: NAD-27
 LAT: 36°30'26.3"N
 LONG: 98°42'48.6"W
 LAT: 36.507296°N
 LONG: 98.713508°W
 STATE PLANE
 COORDINATES: (US Feet)
 ZONE: OK NORTH
 X: 1790300.8
 Y: 549447.6

This information was gathered with a GPS receiver with ±1 foot Horiz./Vert. accuracy.

Date of Drawing: Feb. 1, 2017
 Invoice # 269470 Date Staked: Jan. 26, 2017

CERTIFICATE:
 I, Lee K. Goss, an Oklahoma Licensed Land Surveyor and an authorized agent of Topographic Land Surveyors of Oklahoma, do hereby certify to the information shown herein.



OKlahoma Lic. No. 1778