

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

API NUMBER: 011 23625

Approval Date: 07/13/2016
Expiration Date: 01/13/2017

Horizontal Hole Oil & Gas

PERMIT TO DRILL

WELL LOCATION: Sec: 05 Twp: 19N Rge: 12W County: BLAINE
SPOT LOCATION: SE SE SW SE FEET FROM QUARTER: FROM SOUTH FROM EAST
SECTION LINES: 280 1505

Lease Name: HOSKINS 5-19-12 Well No: 1H Well will be 280 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

JESSIE H. HOSKINS
RT. 1, BOX 171X
LONGDALE OK 73755

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

Name	Depth	Name	Depth
1 MISSISSIPPI LIME	8600	6	
2		7	
3		8	
4		9	
5		10	

Spacing Orders: 106317

Location Exception Orders:

Increased Density Orders:

Pending CD Numbers: 201602373
201602374

Special Orders:

Total Depth: 13750

Ground Elevation: 1490

Surface Casing: 1500

Depth to base of Treatable Water-Bearing FM: 40

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 not located in a Hydrologically Sensitive Area.

Category of Pit: 2

Liner not required for Category: 2

Pit Location is NON HSA

Pit Location Formation: BLAINE

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: 16-31384

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 not located in a Hydrologically Sensitive Area.

Category of Pit: 3
Liner required for Category: 3
Pit Location is NON HSA
Pit Location Formation: BLAINE

HORIZONTAL HOLE 1

Sec 05 Twp 19N Rge 12W County BLAINE
Spot Location of End Point: NW NE NE NE
Feet From: NORTH 1/4 Section Line: 50
Feet From: EAST 1/4 Section Line: 430
Depth of Deviation: 8246
Radius of Turn: 693
Direction: 11
Total Length: 4415
Measured Total Depth: 13750
True Vertical Depth: 8607
End Point Location from Lease,
Unit, or Property Line: 50

Notes:

Table with 2 columns: Category and Description. Rows include DEEP SURFACE CASING, HYDRAULIC FRACTURING, INTERMEDIATE CASING, MEMO, PENDING CD - 201602373, and PENDING CD - 201602374.

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.

Category

Description

SPACING - 106317

7/1/2016 - G75 - (640) 5-19N-12W
EXT OTHERS
EXT 101816 MSSLM, OTHERS

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.

TOPOGRAPHIC LAND SURVEYORS OF OKLAHOMA

6709 NORTH CLASSEN BLVD., OKLA. CITY, OKLA. 73116 * LOCAL (405) 843-4847 * OUT OF STATE (800) 654-3219
 Certificate of Authorization No. 1293 LS

API 011-23625

BLAINE

County, Oklahoma

Section 5 Township 19N Range 12W I.M.

NAD-27
 X= 1848750.9
 Y= 422209.7
 NAD-83
 X= 1817148.9
 Y= 422235.0

NAD-27
 X= 1853986.5
 Y= 422159.2
 NAD-83
 X= 1822384.6
 Y= 422184.4

NAD-27
 X= 1851362.9
 Y= 422185.3
 NAD-83
 X= 1819761.0
 Y= 422210.5

BOTTOM HOLE
 50'FNL-430'FEL
 NAD-27 (US Feet)
 36°09'31.0" N
 98°29'45.8" W
 36.158598" N
 98.496068" W
 X=1853556.7
 Y=422113.5
 NAD-83
 36°09'31.1" N
 98°29'47.1" W
 36.158636" N
 98.496425" W
 X=1821954.9
 Y=422138.6

NAD-27
 X= 1854004.3
 Y= 419403.1
 NAD-83
 X= 1822402.4
 Y= 419428.2

LANDING POINT
 150'FSL-430'FEL
 NAD-27 (US Feet)
 36°08'39.5" N
 98°29'45.1" W
 36.144297" N
 98.495873" W
 X=1853587.7
 Y=416907.3
 NAD-83
 36°08'39.6" N
 98°29'46.4" W
 36.144335" N
 98.496230" W
 X=1821985.8
 Y=416932.4

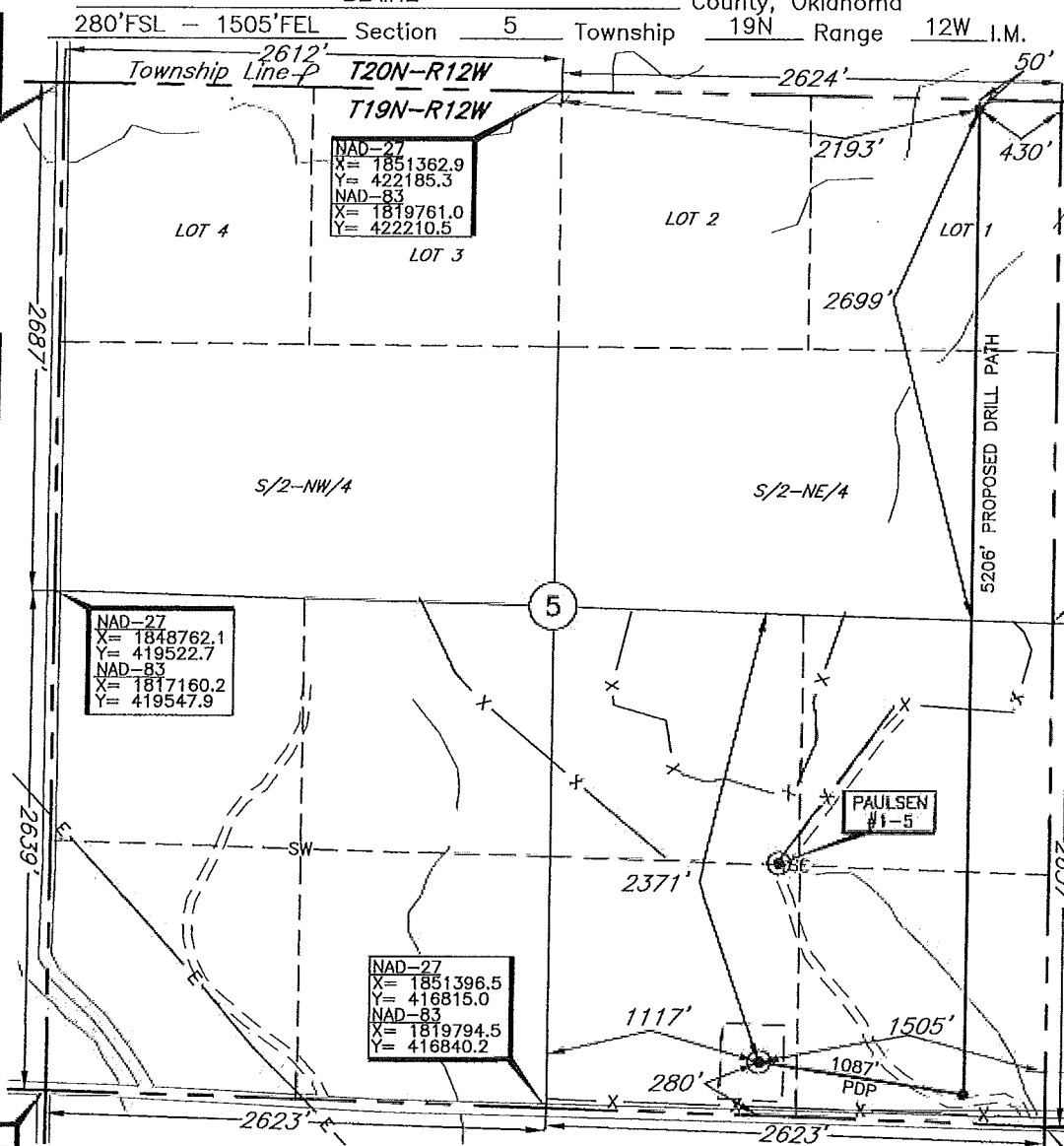
SURFACE HOLE
 NAD-83
 36°08'41.1" N
 98°29'59.6" W
 36.144754" N
 98.499876" W
 X=1820910.2
 Y=417090.7

NAD-27
 X= 1854018.6
 Y= 416745.9
 NAD-83
 X= 1822416.7
 Y= 416771.0

DISTANCE FROM
 PAULSEN 1-5,
 TO:
 SHL-1054'
 DRILL PATH-988'
 LP-1566'
 BHL-4112'



GRID
 NAD-27
 OK NORTH
 US Feet
 Scale:
 1" = 1000'



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

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

ELEVATION:
 1490' Gr. at Stake NGVD29
 1491' Gr. at Stake NAVD88

Operator: CHESAPEAKE OPERATING, L.L.C.
 Lease Name: HOSKINS 5-19-12 Well No.: 1H
 Topography & Vegetation Loc. fell in sloped grass pasture, ±253' North of E-W fence
 Good Drill Site? Yes Reference Stakes or Alternate Location Stakes Set None
 Best Accessibility to Location From South off county road
 Distance & Direction from Hwy Jct or Town From Jct. St. Hwy. 51 and St. Hwy. 51 A at Southard, OK, go ±5.5 mi. North on St. Hwy. 51 A, then 1.0 mi. West to the SE Cor. of Sec. 5-T19N-R12W

This information was gathered with a GPS receiver with ±1 foot Horiz./Vert. accuracy.
 DATUM: NAD-27
 LAT: 36°08'41.0"N
 LONG: 98°29'58.3"W
 LAT: 36.144716" N
 LONG: 98.499518" W
 STATE PLANE COORDINATES: (US Feet)
 ZONE: OK NORTH
 X: 1852512.1
 Y: 417065.5

Date of Drawing: Jun. 15, 2016
 Invoice # 261361 Date Staked: Jun. 10, 2016 AC

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

