

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

API NUMBER: 073 25302 A

Approval Date: 05/19/2016

Expiration Date: 11/19/2016

Horizontal Hole Oil & Gas

Amend reason: CHANGE SURFACE HOLE LOCATION

AMEND PERMIT TO DRILL

WELL LOCATION: Sec: 03 Twp: 18N Rge: 6W

County: KINGFISHER

SPOT LOCATION: SW SW SE SE

FEET FROM QUARTER: FROM SOUTH FROM EAST

SECTION LINES: 230 1245

Lease Name: HASTY 3-18-6

Well No: 1H

Well will be 230 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

JOANNA R. & TURNER E. HASTY  
3775 NORTHAVEN RD.  
DALLAS TX 75229

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

	Name	Depth	Name	Depth
1	BIG LIME	6171	6	
2	OSWEGO	6192	7	
3			8	
4			9	
5			10	

Spacing Orders: 645834  
652385

Location Exception Orders: 652646

Increased Density Orders:

Pending CD Numbers:

Special Orders:

Total Depth: 11500

Ground Elevation: 1164

**Surface Casing: 1500**

Depth to base of Treatable Water-Bearing FM: 190

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: 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: 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)

PERMIT NO: 16-31264

H. SEE MEMO

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 03 Twp 18N Rge 6W County KINGFISHER

Spot Location of End Point: C N2 N2 NE

Feet From: NORTH 1/4 Section Line: 330

Feet From: EAST 1/4 Section Line: 1320

Depth of Deviation: 5973

Radius of Turn: 750

Direction: 359

Total Length: 4349

Measured Total Depth: 11500

True Vertical Depth: 6334

End Point Location from Lease,  
Unit, or Property Line: 330

### Notes:

#### Category

#### Description

#### DEEP SURFACE CASING

5/18/2016 - 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

5/18/2016 - 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.

#### LOCATION EXCEPTION - 652646

5/19/2016 - G75 - (I.O.) 3-18N-6W  
X645834/652385 BGLM, OSWG  
COMPL. INT. NCT 330 FSL, NCT 330 FNL, NCT 660 FEL  
CHESAPEAKE OP., L.L.C.  
5-13-2016

#### MEMO

5/18/2016 - G71 - PIT 1 & 2 - CONCRETE-LINED PIT PER OPERATOR REQUEST; PIT 2 - OBM TO VENDOR, OBM CUTTINGS PER DISTRICT

#### SPACING - 645834

5/19/2016 - G75 - (640)(HOR) 3-18N-6W  
EST BGLM, OSWG  
POE TO BHL NCT 660' FB  
(COEXIST SP. ORDER # 50928 OSWG)

#### SPACING - 652385

5/19/2016 - G75 - CONFIRM 645834 DUE TO FAILURE TO NOTICE CERTAIN RESPONDENTS

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.

073 25302 HASTY 3-18-6 1H

# TOPOGRAPHIC LAND SURVEYORS OF OKLAHOMA

API 073-25302 A

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

KINGFISHER

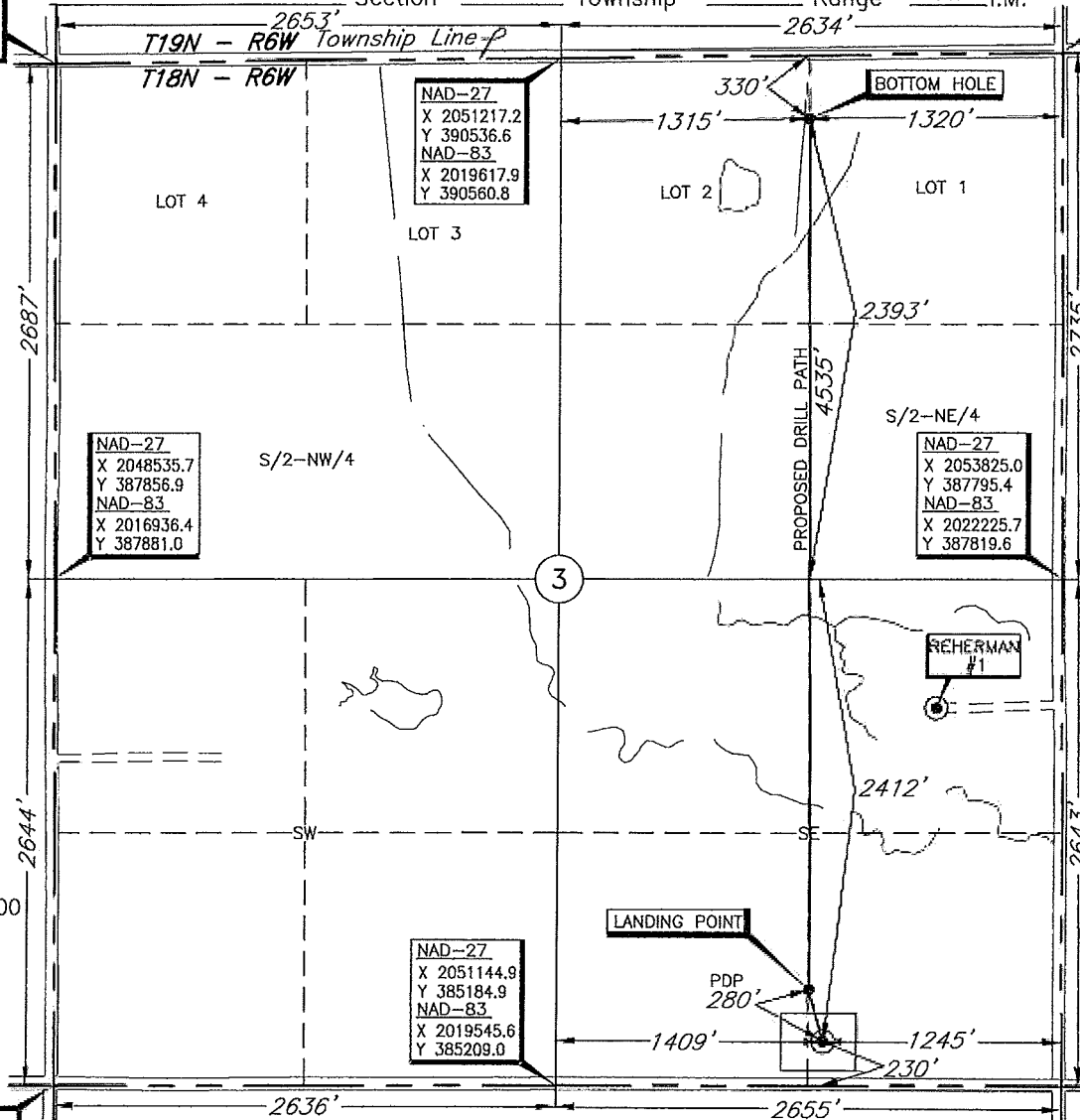
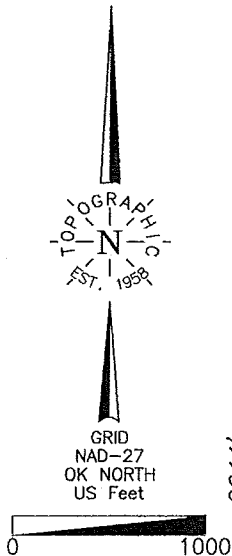
County, Oklahoma

230' FSL - 1245' FEL Section 3 Township 18N Range 6W I.M.

NAD-27  
X 2048563.9  
Y 390543.5  
NAD-83  
X 2016964.6  
Y 390567.7

NAD-27  
X 2053851.0  
Y 390529.8  
NAD-83  
X 2022251.7  
Y 390554.0

DISTANCE FROM  
REHERMAN #1  
TO:  
SHL-1833'  
DRILL PATH-665'  
LP-1609'  
BHL-3141'



NAD-27  
X 2051217.2  
Y 390536.6  
NAD-83  
X 2019617.9  
Y 390560.8

NAD-27  
X 2048535.7  
Y 387856.9  
NAD-83  
X 2016936.4  
Y 387881.0

NAD-27  
X 2053825.0  
Y 387795.4  
NAD-83  
X 2022225.7  
Y 387819.6

NAD-27  
X 2051144.9  
Y 385184.9  
NAD-83  
X 2019545.6  
Y 385209.0

BOTTOM HOLE  
330' FNL - 1320' FEL  
NAD-27 (US Feet)  
36°04'18.6" N  
97°49'20.1" W  
36.071830" N  
97.822264" W  
X=2052527.8  
Y=390203.2  
NAD-83  
36°04'18.7" N  
97°49'21.3" W  
36.071871" N  
97.822594" W  
X=2020928.5  
Y=390227.4

LANDING POINT  
500' FSL - 1320' FEL  
NAD-27 (US Feet)  
36°03'33.7" N  
97°49'20.8" W  
36.059372" N  
97.822437" W  
X=2052484.8  
Y=385668.4  
NAD-83  
36°03'33.9" N  
97°49'22.0" W  
36.059414" N  
97.822767" W  
X=2020885.5  
Y=385692.6

SURFACE HOLE  
NAD-83  
36°03'31.2" N  
97°49'21.1" W  
36.058669" N  
97.822524" W  
X=2020957.8  
Y=385421.7

NAD-27  
X 2053799.9  
Y 385152.2  
NAD-83  
X 2022200.6  
Y 385176.4

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:

1164' Gr. at Stake NAVD88  
1164' Gr. at Stake NGVD29

Operator: CHESAPEAKE OPERATING, L.L.C.

Lease Name: HASTY 3-18-6

Well No.: 1H

Topography & Vegetation Loc. fell on pad under construction, ±200' North of power line and Right-of-Way 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. US Hwy. 81 N-S and St. Hwy. 51 E-W, North of Hennessey, OK, go ±4.0 mi. South  
on US Hwy. 81, then ±4.5 mi. East on county road to the SE Cor. of Sec. 3-T18N-R6W

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

DATUM: NAD-27  
LAT: 36°03'31.1"N  
LONG: 97°49'19.9"W  
LAT: 36.058628° N  
LONG: 97.822194° W  
STATE PLANE  
COORDINATES: (US Feet)  
ZONE: OK NORTH  
X: 2052557.1  
Y: 385397.5

Date of Drawing: May 23, 2016  
Invoice # 261014 Date Staked: May 20, 2016 JGW

## 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

