

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

Approval Date: 05/19/2016
Expiration Date: 11/19/2016

Horizontal Hole Oil & Gas

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: 260 1270

Lease Name: HASTY 3-18-6

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

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)

H. SEE MEMO

PERMIT NO: 16-31264

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:

Table with 2 columns: Category, Description. Rows include DEEP SURFACE CASING, HYDRAULIC FRACTURING, LOCATION EXCEPTION - 652646, MEMO, SPACING - 645834, and SPACING - 652385.

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

API 073-25302

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

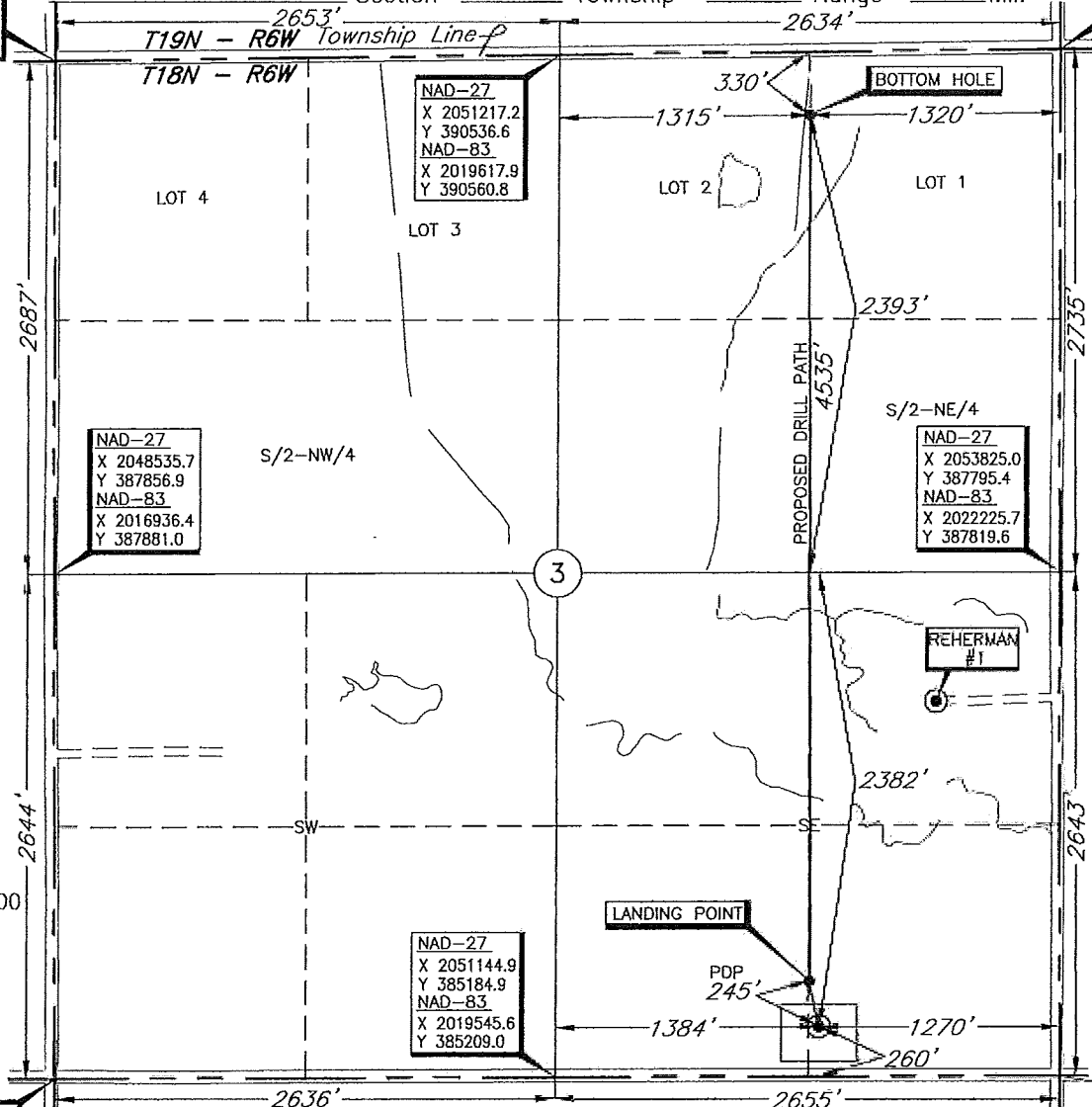
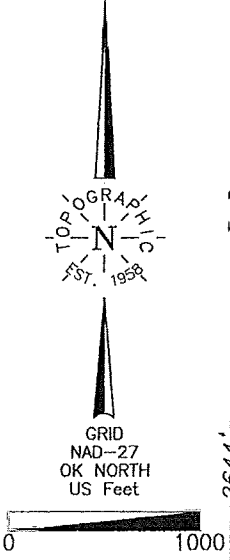
KINGFISHER County, Oklahoma

260'FSL - 1270'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-1813'
 DRILL PATH-665'
 LP-1609'
 BHL-3141'



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

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

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

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°03'31.5" N
 97°49'21.4" W
 36.058753" N
 97.822607" W
 X=2020933.2
 Y=385452.0

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

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 in wheat field, ±230' 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

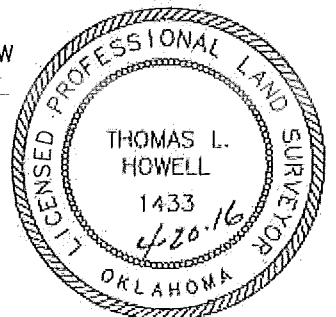
DATUM: NAD-27
 LAT: 36°03'31.4"N
 LONG: 97°49'20.2"W
 STATE PLANE COORDINATES: (US Feet)
 ZONE: OK NORTH
 X: 2052532.5
 Y: 385427.8

Date of Drawing: Apr. 11, 2016
 Invoice # 259091 Date Staked: Apr. 07, 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



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