

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

API NUMBER: 073 25470

Approval Date: 12/19/2016
Expiration Date: 06/19/2017

Horizontal Hole Oil & Gas

PERMIT TO DRILL

WELL LOCATION: Sec: 21 Twp: 16N Rge: 9W

County: KINGFISHER

SPOT LOCATION: NE NE NE NE

FEET FROM QUARTER: FROM NORTH FROM EAST

SECTION LINES: 190 250

Lease Name: OPPEL BIA

Well No: 1-21-28MXH

Well will be 190 feet from nearest unit or lease boundary.

Operator Name: MARATHON OIL COMPANY

Telephone: 7132962003

OTC/OCC Number: 1363 0

MARATHON OIL COMPANY
5555 SAN FELIPE ST
HOUSTON, TX 77056-2701

ROBERT A OPPEL LIVING TRUST
PO BOX 555
KINGFISHER OK 73750

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

Name	Depth	Name	Depth
1 MISS'AN (EX CHESTER)	8350	6	
2		7	
3		8	
4		9	
5		10	

Spacing Orders: No Spacing

Location Exception Orders:

Increased Density Orders:

Pending CD Numbers: 201604556
201604559
201604561
201604562
201604558

Special Orders:

Total Depth: 19005

Ground Elevation: 1136

Surface Casing: 1500

Depth to base of Treatable Water-Bearing FM: 570

Under Federal Jurisdiction: Yes

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: 5000 Average: 3000

E. Haul to Commercial pit facility: Sec. 31 Twn. 12N Rng. 8W Cnty. 17 Order No: 587498

Is depth to top of ground water greater than 10ft below base of pit? Y

H. SEE MEMO

Within 1 mile of municipal water well? N

Wellhead Protection Area? N

Pit is not located in a Hydrologically Sensitive Area.

Category of Pit: C

Liner not required for Category: C

Pit Location is NON HSA

Pit Location Formation: CHICKASHA

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: CLOSED Closed System Means Steel Pits

Type of Mud System: OIL BASED

Chlorides Max: 300000 Average: 200000

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: C

Liner not required for Category: C

Pit Location is NON HSA

Pit Location Formation: CHICKASHA

HORIZONTAL HOLE 1

Sec 28 Twp 16N Rge 9W County KINGFISHER

Spot Location of End Point: S2 SE SE SE

Feet From: SOUTH 1/4 Section Line: 50

Feet From: EAST 1/4 Section Line: 330

Depth of Deviation: 8150

Radius of Turn: 462

Direction: 181

Total Length: 10129

Measured Total Depth: 19005

True Vertical Depth: 9143

End Point Location from Lease,
Unit, or Property Line: 50

Notes:

Category

Description

COMPLETION INTERVAL

12/8/2016 - G64 - WILL BE GREATER THAN 165' FNL 21-16N-9W & 165' FSL 28-16N-9W PER OPERATOR

DEEP SURFACE CASING

11/16/2016 - G71 - APPROVED; NOTIFY OCC FIELD INSPECTOR IMMEDIATELY OF ANY LOSS OF CIRCULATION OR FAILURE TO CIRCULATE CEMENT TO SURFACE ON ANY CONDUCTOR OR SURFACE CASING

HYDRAULIC FRACTURING

11/16/2016 - 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.

INTERMEDIATE CASING

11/16/2016 - 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

MEMO

11/16/2016 - G71 - PITS 1 & 2 - CLOSED SYSTEM=STEEL PITS PER OPERATOR REQUEST, PIT 2 - OBM RETURNED TO VENDOR, CUTTINGS PERMITTED PER DISTRICT

PENDING CD - 201604556

11/16/2016 - G64 - (640)(HOR) 21-16N-9W
EXT 655017 MSNLC, OTHER
POE TO BHL NCT 660' FB
(COEXIST SP. ORDER 165403 MSSSD & SP. ORDER 77626 MNNG)
REC. 11-8-2016 (NORRIS)

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
PENDING CD - 201604558	11/16/2016 - G64 - (I.O.) 21-16N-9W X165:10-3-28(C)(2)(B) MSNLC WELL MAY BE CLOSER THAN 600' TO CLUCK 1-21 WELL REC. 12-6-2016 (P. PORTER)
PENDING CD - 201604559	11/16/2016 - G64 - (640)(HOR) 28-16N-9W EXT 655017 MSNLC, OTHER POE TO BHL NCT 660' FB (COEXIST SP. ORDER 551190 MSSSD) REC. 11-8-2016 (NORRIS)
PENDING CD - 201604561	11/16/2016 - G64 - (I.O.) 21 & 28-16N-9W EST MULTIUNIT HORIZONTAL WELL X201604556 MSNLC, OTHER 21-16N-9W X201604559 MSNLC, OTHER 28-16N-9W 50% 21-16N-9W 50% 28-16N-9W NO OP. NAMED REC. 12-6-2016 (P. PORTER)
PENDING CD - 201604562	11/16/2016 - G64 - (I.O.) 21 & 28-16N-9W X201604556 MSNLC, OTHER 21-16N-9W X201604559 MSNLC, OTHER 28-16N-9W COMPL. INT. (21-16N-9W) NCT 165' FNL, NCT 0' FSL, NCT 330' FEL COMPL. INT. (28-16N-9W) NCT 0' FNL, NCT 165' FSL, NCT 330' FEL NO OP. NAMED REC. 12-6-2016 (P. PORTER)

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.

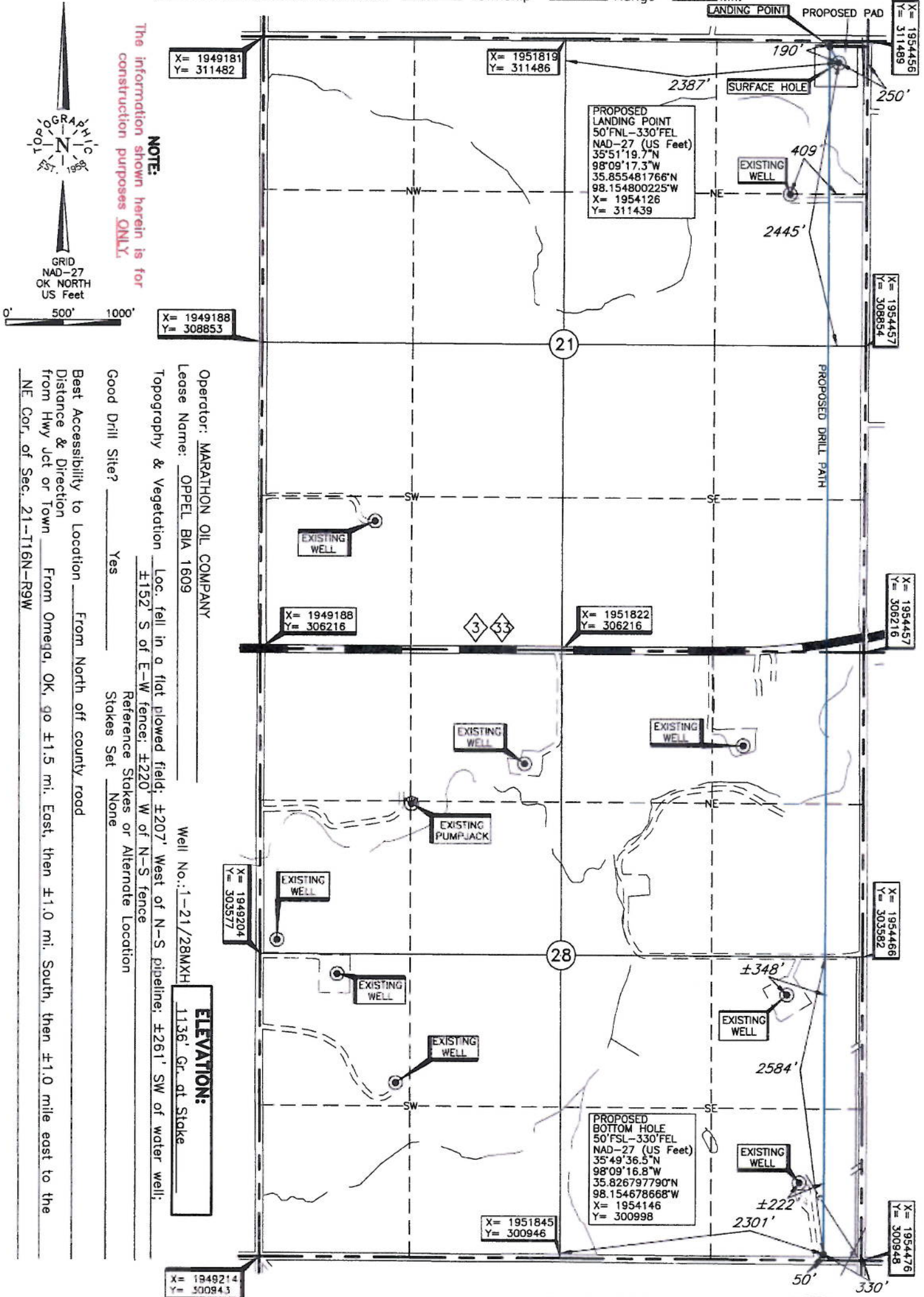
TOPOGRAPHIC LAND SURVEYORS OF OKLAHOMA

6709 NORTH 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

190'FNL - 250'FEL Section 21 Township 16N Range 9W I.M.



Operator: MARATHON OIL COMPANY
 Lease Name: OPPEL BIA 1609
 Topography & Vegetation: Loc. fell in a flat plowed field; ±207' West of N-S pipeline; ±261' SW of water well; ±152' S of E-W fence; ±220' W of N-S fence

Well No.: 1-21/28MXH
 ELEVATION: 1136' Gr. at Stake

Good Drill Site? Yes
 Reference Stakes or Alternate Location: Stakes Set None

Best Accessibility to Location: From North off county road
 Distance & Direction: From Omega, OK, go ±1.5 mi. East, then ±1.0 mi. South, then ±1.0 mile east to the NE Cor. of Sec. 21-T16N-R9W

DATUM: NAD-27
 LAT: 35°51'18.4"N
 LONG: 98°09'16.3"W
 STATE PLANE COORDINATES: (US Feet)
 ZONE: OK NORTH
 X: 1954206
 Y: 311299

Date of Drawing: Sep. 21, 2016
 Invoice # 264908 Date Staked: Sep. 20, 2016 AC/TR

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

