

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

API NUMBER: 073 25550

Approval Date: 03/07/2017
Expiration Date: 09/07/2017

Horizontal Hole Oil & Gas

PERMIT TO DRILL

WELL LOCATION: Sec: 09 Twp: 15N Rge: 9W County: KINGFISHER
SPOT LOCATION: NW NW NW NE FEET FROM QUARTER: FROM NORTH FROM EAST
SECTION LINES: 255 2415

Lease Name: TAN 1509 Well No: 6-4-33MXH Well will be 255 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

ROBERTA CASTONGUAY
1021 STARLITE DR
KINGFISHER OK 73750

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

Name	Depth	Name	Depth
1	MISSISSIPPIAN	9470	6
2			7
3			8
4			9
5			10

Spacing Orders: 624271 Location Exception Orders: 661395 Increased Density Orders: 661209
652808 661449
660980

Pending CD Numbers: 201605660

Special Orders:

Total Depth: 19812 Ground Elevation: 1211 **Surface Casing: 1500** Depth to base of Treatable Water-Bearing FM: 560

Under Federal Jurisdiction: No Fresh Water Supply Well Drilled: No Surface Water used to Drill: No

PIT 1 INFORMATION

Type of Pit System: CLOSED Closed System Means Steel Pits
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 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

Approved Method for disposal of Drilling Fluids:

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

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: 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 33 Twp 15N Rge 9W County KINGFISHER

Spot Location of End Point: NE NW NW NE

Feet From: NORTH 1/4 Section Line: 165

Feet From: EAST 1/4 Section Line: 2073

Depth of Deviation: 9174

Radius of Turn: 462

Direction: 3

Total Length: 9912

Measured Total Depth: 19812

True Vertical Depth: 10156

End Point Location from Lease,
Unit, or Property Line: 165

Notes:

Category

Description

DEEP SURFACE CASING

1/20/2017 - 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

1/20/2017 - 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

INCREASED DENSITY - 661209

1/24/2017 - G60 - 4-15N-9W
X652808 MSSP
8 WELLS
NO OP. NAMED
2/21/17

INCREASED DENSITY - 661449

1/24/2017 - G60 - (33-16N-9W)
X624271 MSSP
7 WELLS
NO OP. NAMED
2/28/17

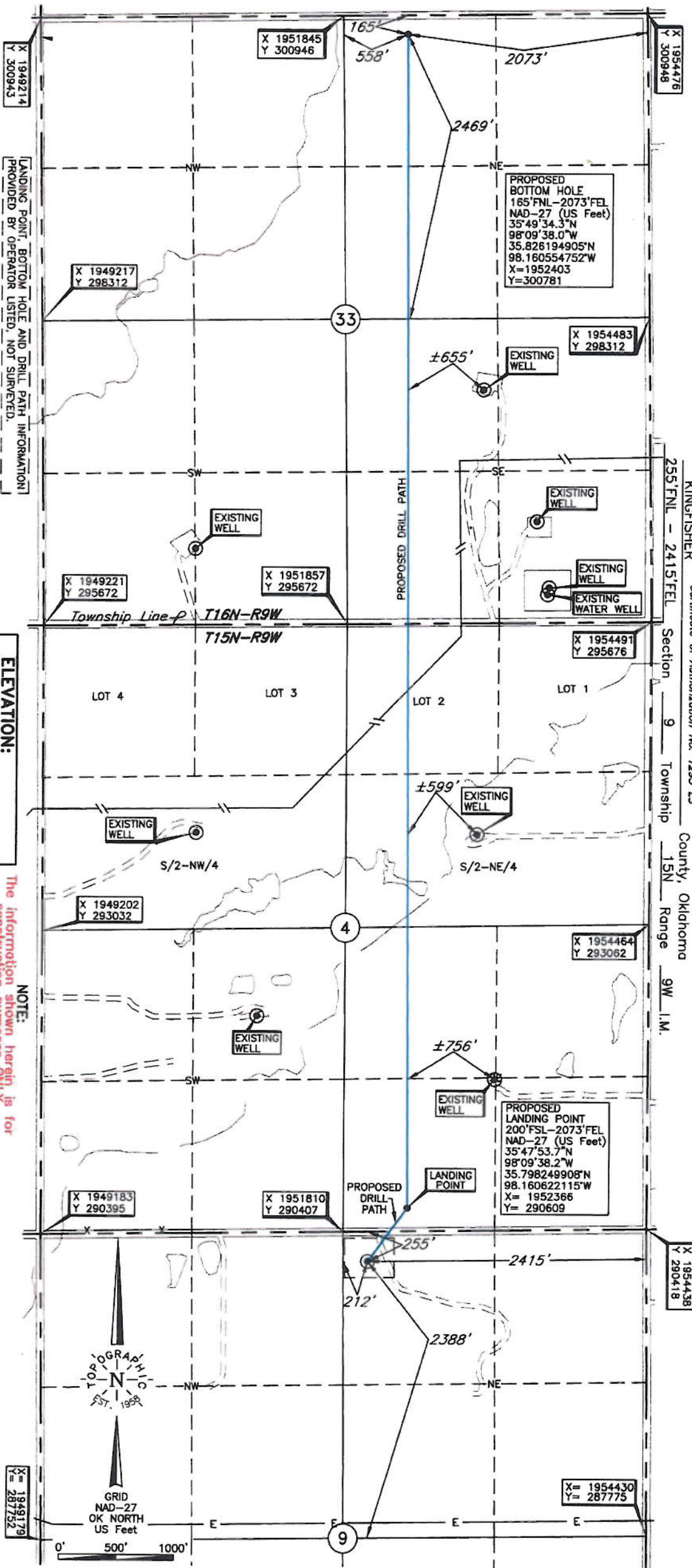
INTERMEDIATE CASING

1/20/2017 - 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

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
LOCATION EXCEPTION - 661395	1/24/2017 - G60 - (I.O.) 4-15N-9W & 33-16N-9W X624271 MSSP (33-16N-9W) X652808 MSSP (4-15N-9W) COMPL. INT. (4-15N-9W) NCT 165' FSL, NCT 0' FNL, NCT 2073' FEL COMPL. INT. (33-16N-9W) NCT 0' FSL, NCT 165' FNL, NCT 2073' FEL NO OP. NAMED 2/27/17
MEMO	1/20/2017 - G71 - PITS 1 & 2 - CLOSED SYSTEM=STEEL PITS PER OPERATOR REQUEST, PIT 2 - OBM RETURNED TO VENDOR, CUTTINGS PERMITTED PER DISTRICT
PENDING CD - 201605650	1/24/2017 - G60 - (E.O.) 4-15N-9W X165:10-3-28(C)(2)(B) MSSP (TAN 1509 6-4-33MXH) MAY BE CLOSER THAN 600' TO TAN 1509 5-4-33XH AND TAN 1509 7-4-33XH MARATHON OIL COMPANY REC. 3/6/17 (DECKER)
SPACING - 624271	1/24/2017 - G60 - (640)(HOR) 33-16N-9W VAC 566618 MSSSD, OTHER EST MSSP, OTHER COMPL. INT. (MSSP) NCT 660' FB (COEXIST WITH SP. ORDER 56289 MCSTR)
SPACING - 652808	1/24/2017 - G60 - (640)(HOR) 4-15N-9W EXT 624271 MSSP, OTHER COMPL. INT. (MSSP) NCT 600' FB (COEXIST WITH SP. ORDER 56289 MCSTR & SP. ORDER 271165 MRMCM, OSGE)
SPACING - 660980	1/24/2017 - G60 - (I.O.) 4-15N-9W & 33-16N-9W EST MULTIUNIT HORIZONTAL WELL X652808 MSSP (4-15N-9W) X624271 MSSP (33-16N-9W) 50% 4-15N-9W 50% 33-16N-9W 2/13/17

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Operator: MARATHON OIL COMPANY
 Lease Name: TAN 1509 Well No.: 6-4-33MXH
 Topography & Vegetation Loc. fell in plowed wheat field
 Good Drill Site? Yes Reference Stakes or Alternate Location None
 Best Accessibility to Location From North off county road
 Distance & Direction From Hwy Jct or Town From Jct. US Hwy. 81 and St. Hwy. 33 in Kingfisher, OK, go ±13.0 mi. West on St. Hwy. 33, then ±3.0 mi. South to the NE Cor. of Sec. 9-T15N-R9W

DATUM: NAD-27
LAT: 35.47749.2°N
LONG: 98.09742.4°W
LAT: 35.796994178°N
LONG: 98.161782103°W
STATE PLANE COORDINATES: (US Feet)
ZONE: OK NORTH
X: 1952022
Y: 290153

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

CERTIFICATE:
 I, Thomas L. Howell on 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. 1443

Revision A Date of Drawing: Dec. 12, 2016
 Invoice # 267208 Date Staked: Nov. 3, 2016 AC

