

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

API NUMBER: 017 25545

Approval Date: 10/18/2019

Expiration Date: 04/18/2021

Horizontal Hole
Multi Unit

Oil & Gas

PERMIT TO DRILL

WELL LOCATION: Sec: 09 Twp: 14N Rge: 8W

County: CANADIAN

SPOT LOCATION:

NE

SW

SE

SW

FEET FROM QUARTER: FROM

SOUTH

FROM

WEST

SECTION LINES:

389

1871

Lease Name: KNIGHT 1408

Well No: 2-9-4MXH

Well will be 389 feet from nearest unit or lease boundary.

Operator
Name: MARATHON OIL COMPANY

Telephone: 4057285228

OTC/OCC Number: 1363 0

MARATHON OIL COMPANY

PO BOX 68

HOUSTON, TX 77001-0068

GEORGE RAY HEUPEL

15151 N CHILES RD

OKARCHE OK 73762

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

Name

Depth

Name

Depth

1 MISSISSIPPIAN

9664

6

2

7

3

8

4

9

5

10

Spacing Orders: 625910
651936
703119

Location Exception Orders:

Increased Density Orders: 702959
702960

Pending CD Numbers: 201903881

Special Orders:

Total Depth: 19585

Ground Elevation: 1239

Surface Casing: 1500

Depth to base of Treatable Water-Bearing FM: 340

Deep surface casing has been approved

Under Federal Jurisdiction: No

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: FLOWERPOT

This permit does not address the right of entry or settlement of surface damages.

The duration of this permit is 18 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: FLOWERPOT

HORIZONTAL HOLE 1

Sec 04 Twp 14N Rge 8W County CANADIAN

Spot Location of End Point: NW NE NW NE

Feet From: NORTH 1/4 Section Line: 50

Feet From: EAST 1/4 Section Line: 1940

Depth of Deviation: 9222

Radius of Turn: 462

Direction: 10

Total Length: 9637

Measured Total Depth: 19585

True Vertical Depth: 10190

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

Notes:

Category

Description

DEEP SURFACE CASING

10/1/2019 - 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

10/1/2019 - G71 - OCC 165:10-3-10 REQUIRES:

1) PRIOR TO COMMENCEMENT OF HYDRAULIC FRACTURING OPERATIONS FOR HORIZONTAL WELLS, NOTICE GIVEN FIVE BUSINESS DAYS IN ADVANCE TO OFFSET OPERATORS WITH WELLS COMPLETED IN THE SAME COMMON SOURCE OF SUPPLY WITHIN 1/2 MILE;

2) WITH NOTICE ALSO GIVEN 48 HOURS IN ADVANCE OF HYDRAULIC FRACTURING ALL WELLS TO BOTH THE OCC CENTRAL OFFICE AND LOCAL DISTRICT OFFICES, USING THE "FRAC NOTICE FORM" FOUND AT THE FOLLOWING LINK: OCCEWEB.COM/OG/OGFORMS.HTML; AND,

3) THE CHEMICAL DISCLOSURE OF HYDRAULIC FRACTURING INGREDIENTS FOR ALL WELLS TO BE REPORTED TO FRACFOCUS WITHIN 60 DAYS AFTER THE CONCLUSION THE HYDRAULIC FRACTURING OPERATIONS, USING THE FOLLOWING LINK: FRACFOCUS.ORG

INCREASED DENSITY - 702959

10/15/2019 - GB1 - 4-14N-8W
X625910 MSSP ***
3 WELLS
NO OP. NAMED
9/30/2019

*** NPT WILL BE FILED TO ADD SP 651936 PER ATTORNEY

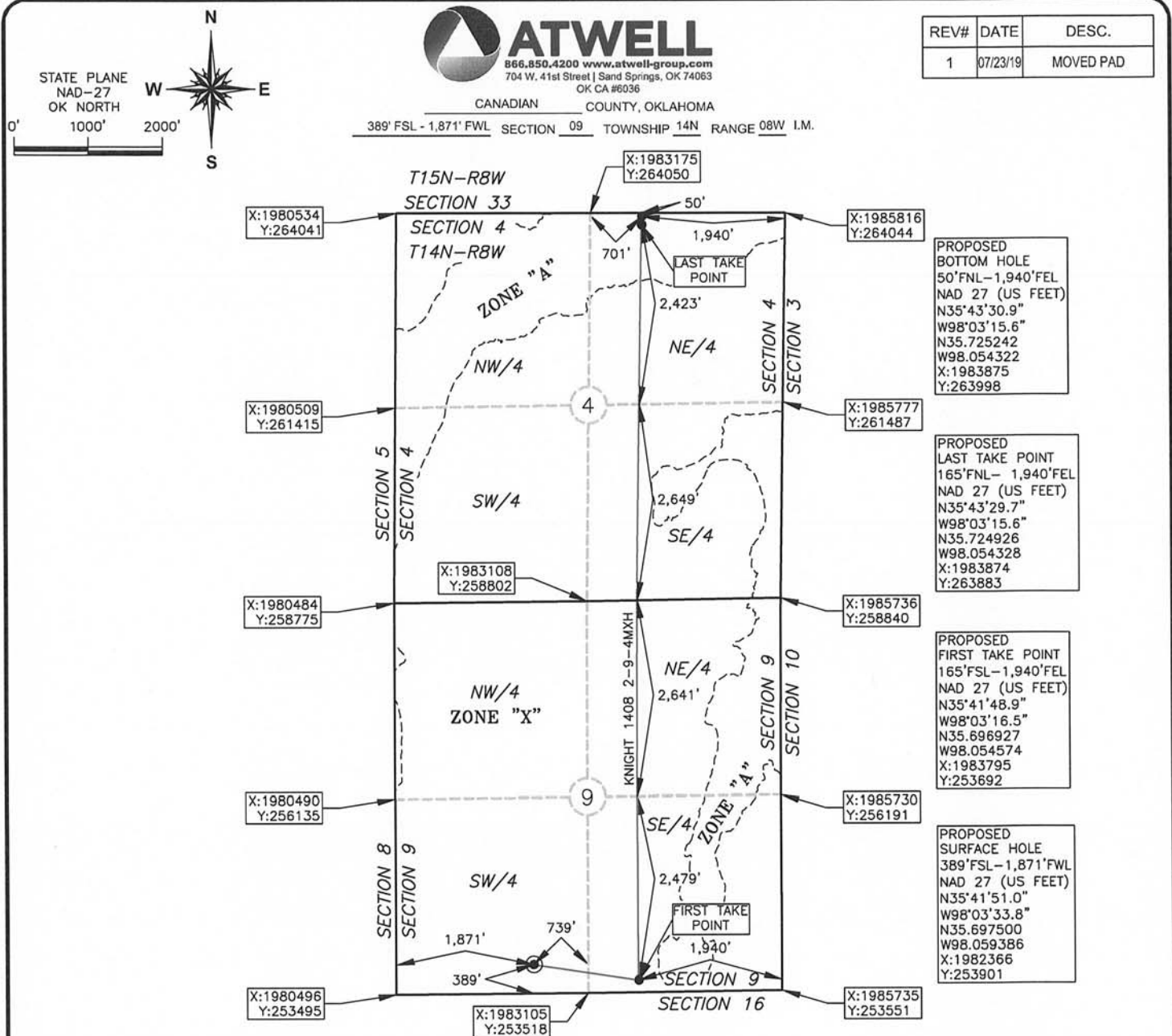
This permit does not address the right of entry or settlement of surface damages.

The duration of this permit is 18 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.

017 25545 KNIGHT 1408 2-9-4MXH

INCREASED DENSITY - 702960	10/15/2019 - GB1 - 9-14N-8W X625910 MSSP *** 3 WELLS NO OP NAMED 9/30/2019 *** NPT WILL BE FILED TO ADD SP 651936 PER ATTORNEY
INTERMEDIATE CASING	10/1/2019 - 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	10/1/2019 - G71 - PITS 1 & 2 - CLOSED SYSTEM=STEEL PITS PER OPERATOR REQUEST, PIT 2 - OBM RETURNED TO VENDOR, CUTTINGS PERMITTED PER DISTRICT
PENDING CD - 201903881	10/15/2019 - GB1 - (I.O.) 4 & 9-14N-8W X625910 MSSP *** COMPL. INT. (4-14N-8W) NCT 150' FNL, NCT 0' FSL, NCT 1650' FEL COMPL. INT. (9-14N-8W) NCT 0' FNL, NCT 150' FSL, NCT 1650' FEL NO OP. NAMED REC. 8/13/2019 (MINMIER)
SPACING - 625910	*** SP 651936 WILL BE ADDED PER ATTORNEY 10/15/2019 - GB1 - (640)(HOR) 4 & 9-14N-8W VAC 168986 CSTRU, MSSSD, MNNG VAC 171385 CSTRU, MSSSD, MNNG EXT 619356 MSSP, OTHER COMPL. INT. (MSSP) NLT 330' FB
SPACING - 651936	10/15/2019 - GB1 - NPT PARAGRAPH 8.D OF #625910 TO CHANGE MSSP TO CONVENTIONAL RESERVOIR WITH WELL LOCATION NLT 660' FB
SPACING - 703119	10/15/2019 - GB1 - (I.O.) 4 & 9-14N-8W EST MULTIUNIT HORIZONTAL WELL X625910 MSSP *** 50% 4-14N-8W 50% 9-14N-8W NO OP. NAMED 10/2/2019 *** SP 651936 WILL BE ADDED AT FINAL HEARING PER ATTORNEY



OPERATOR: MARATHON OIL COMPANY

LEASE NAME: KNIGHT 1408

WELL NO. 2-9-4MXH

TOPOGRAPHY & VEGETATION: OPEN FIELD

ELEVATION:	
1,239' GR. AT STAKE NAVD88	
1,236' GR. AT STAKE NGVD29	

GOOD DRILL SITE? YES
REFERENCE STAKES OR ALTERNATE LOCATION
STAKES SET NONE

BEST ACCESS TO LOCATION: NORTH FROM 220TH ST NW

DISTANCE AND DIRECTION
FROM HWY JCT OR TOWN BEGINNING AT THE INTERSECTION OF OKLAHOMA AVE & OK HWY 3/OK HWY 81 IN OKARCHE OK. THENCE WEST ALONG COUNTY LINE RD/E0890 RD APPROX.

4.0 MI. THENCE SOUTH ALONG N BRANDLEY RD APPROX. 2.0 MI. THENCE WEST ALONG 220TH ST NW APPROX. 0.7 MI. PAD IS IN THE FIELD ON THE NORTH SIDE OF THE ROAD.

DATUM: NAD 27
LAT: 35° 41' 51.0" N
LONG: 98° 03' 33.8" W
LAT: 35.697500° N
LONG: 98.059386° W
STATE PLANE
COORDINATES: (US FEET)
ZONE: OK NORTH
X: 1982366
Y: 253901

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

JOB NO.: 19002487

DATE OF DRAWING: 07-08-19

DATE STAKED: 07-03-19

CERTIFICATE:

I, MICHAEL C. RAY, an Oklahoma Licensed Land Surveyor and an authorized agent of Atwell, LLC, do hereby certify to the information shown herein

Oklahoma Lic. No. 1653

