

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

API NUMBER: 017 25221

Approval Date: 05/08/2018

Expiration Date: 11/08/2018

Horizontal Hole Oil & Gas

PERMIT TO DRILL

WELL LOCATION: Sec: 11 Twp: 14N Rge: 9W

County: CANADIAN

SPOT LOCATION:

FEET FROM QUARTER: FROM SOUTH FROM EAST

SECTION LINES: 254 223

Lease Name: CLYDE HANSEN 1409

Well No: 1-11-2MXH

Well will be 223 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

CLYDE HANSEN FARMS INC C/O MARY JONES
12704 BRANDON PLACE
OKLAHOMA CITY OK 73142

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

Name	Depth	Name	Depth
1 MISSISSIPPIAN SOLID	10129	6	
2		7	
3		8	
4		9	
5		10	

Spacing Orders: 166936
676038

Location Exception Orders: 676144

Increased Density Orders: 675650
675649

Pending CD Numbers:

Special Orders:

Total Depth: 20651

Ground Elevation: 1277

Surface Casing: 1500

Depth to base of Treatable Water-Bearing FM: 420

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: BLAINE

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: BLAINE

HORIZONTAL HOLE 1

Sec 02 Twp 14N Rge 9W County CANADIAN

Spot Location of End Point: N2 NE NE NE

Feet From: NORTH 1/4 Section Line: 50

Feet From: EAST 1/4 Section Line: 330

Depth of Deviation: 9860

Radius of Turn: 347

Direction: 359

Total Length: 10246

Measured Total Depth: 20651

True Vertical Depth: 10850

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

Notes:

Category

Description

DEEP SURFACE CASING

4/26/2018 - 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

4/26/2018 - 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 - 675649

4/26/2018 - G58 - 2-14N-9W
X166936 MSSSD
1 WELL
MARATHON OIL COMPANY
4/2/2018

INCREASED DENSITY - 675650

4/26/2018 - G58 - 11-14N-9W
X166936 MSSSD
1 WELL
MARATHON OIL COMPANY
4/2/2018

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

017 25221 CLYDE HANSEN 1409 1-11-2MXH

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
INTERMEDIATE CASING	4/26/2018 - 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
LOCATION EXCEPTION - 676144	4/26/2018 - G58 - (I.O.) 2 & 11-14N-9W X166936 MSSSD COMPL. INT. 165' FNL, NCT 165' FSL, NCT 330' FEL MARATHON OIL COMPANY 4/11/2018
MEMO	4/26/2018 - G71 - PITS 1 & 2 - CLOSED SYSTEM=STEEL PITS PER OPERATOR REQUEST, PIT 2 - OBM RETURNED TO VENDOR, CUTTINGS PERMITTED PER DISTRICT
SPACING - 166936	4/26/2018 - G58 - (640) 2 & 11-14N-9W EXT OTHERS EXT 76186/164538 MSSSD, OTHER
SPACING - 676038	4/26/2018 - G58 - (I.O.) 2 & 11-14N-9W EST MULTIUNIT HORIZONTAL WELL X166936 MSSSD (2 & 11-14N-9W) 50% 2-14N-9W 50% 11-14N-9W MARATHON OIL COMPANY 4/10/2018

017-25221

CANADIAN COUNTY, OKLAHOMA

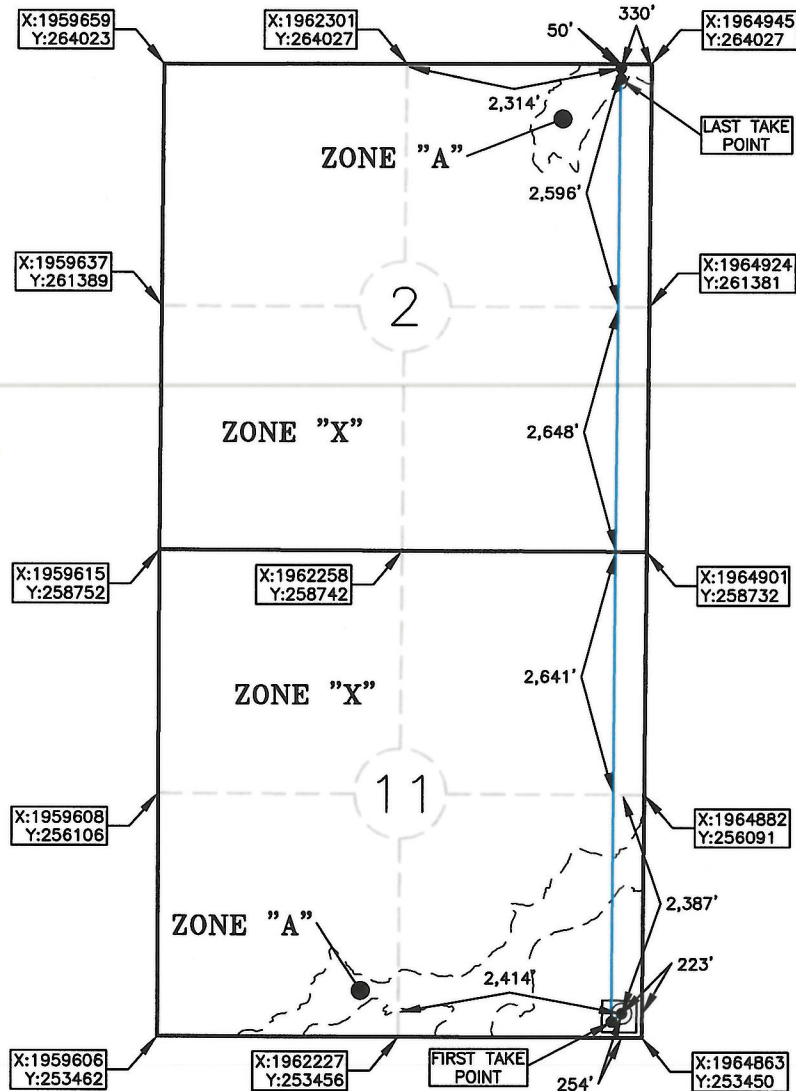
254' FSL - 223' FEL SECTION 11 TOWNSHIP 14N RANGE 9W I.M.

PROPOSED
BOTTOM HOLE
50'FNL-330'FEL
NAD 27 (US FEET)
N35°43'30.5"
W98°07'09.2"
N35.725137
W98.119209
X:1964615
Y:263977

PROPOSED
LAST TAKE POINT
165'FNL-330'FEL
NAD 27 (US FEET)
N35°43'29.4"
W98°07'09.2"
N35.724821
W98.119212
X:1964614
Y:263862

PROPOSED
FIRST TAKE POINT
165'FSL-330'FEL
NAD 27 (US FEET)
N35°41'48.0"
W98°07'10.0"
N35.696672
W98.119436
X:1964535
Y:253616

PROPOSED
SURFACE HOLE
254'FSL-223'FEL
NAD 27 (US FEET)
N35°41'48.9"
W98°07'08.7"
N35.696917
W98.119073
X:1964643
Y:253705



OPERATOR: MARATHON OIL COMPANY

LEASE NAME: CLYDE HANSEN 1409

WELL NO.: 1-11-2MXH

TOPOGRAPHY & VEGETATION: CULTIVATED PASTURE

GOOD DRILL SITE? YES

REFERENCE STAKES OR ALTERNATE LOCATION
STAKES SET NONE

BEST ACCESS TO LOCATION: N CALUMET RD TO THE EAST

DISTANCE AND DIRECTION
FROM HWY JCT OR TOWN BEGINNING AT THE INTERSECTION OF US HWY 270 AND N CALUMET RD IN CALUMET, OK, DRIVE NORTH ON N CALUMET RD FOR APPROX. 6.5 MILES.

THE SITE IS IN THE FIELD ON THE WEST SIDE OF THE ROAD.

DATUM: NAD 27

LAT: 35° 41' 48.9" N

LONG: 98° 07' 08.7" W

LAT: 35.696917° N

LONG: 98.119073° W

STATE PLANE

COORDINATES: (US FEET)

ZONE: OK NORTH

X: 1964643

Y: 253705

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

JOB NO.: 17003012

DATE OF DRAWING: 10/25/17

DATE STAKED: 10/24/17

CERTIFICATE:

I, DAVID L. ANDERSON an Oklahoma Licensed Land
Surveyor and an authorized agent of Atwell, LLC, do
hereby certify to the information shown herein

David L. Anderson 11/6/17
Oklahoma Lic. No. 1927

