

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

API NUMBER: 011 23731

Approval Date: 01/27/2017  
Expiration Date: 07/27/2017

Horizontal Hole Oil & Gas

PERMIT TO DRILL

WELL LOCATION: Sec: 16 Twp: 15N Rge: 13W County: BLAINE  
SPOT LOCATION:  SW  SE  SE  SE FEET FROM QUARTER: FROM SOUTH FROM EAST  
SECTION LINES: 230 350

Lease Name: SPANGLER BIA Well No: 1-21-28XH Well will be 230 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 KENT SPANGLER  
1221 WEST 2ND STREET  
WATONGA OK 73772

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

	Name	Depth	Name	Depth
1	MISSISSIPPIAN	11168	6	
2	WOODFORD	12954	7	
3			8	
4			9	
5			10	

Spacing Orders: 653559  
653560  
654345

Location Exception Orders: 654240

Increased Density Orders:

Pending CD Numbers:

Special Orders:

Total Depth: 21054

Ground Elevation: 1630

**Surface Casing: 1500**

Depth to base of Treatable Water-Bearing FM: 210

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: 8000 Average: 5000

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: C

Liner not required for Category: C

Pit Location is BED AQUIFER

Pit Location Formation: MARLOW

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 located in a Hydrologically Sensitive Area.

Category of Pit: C

Liner not required for Category: C

Pit Location is BED AQUIFER

Pit Location Formation: MARLOW

HORIZONTAL HOLE 1

Sec 28 Twp 15N Rge 13W County BLAINE

Spot Location of End Point: SE SE SE SE

Feet From: SOUTH 1/4 Section Line: 101

Feet From: EAST 1/4 Section Line: 329

Depth of Deviation: 10145

Radius of Turn: 462

Direction: 179

Total Length: 10183

Measured Total Depth: 21054

True Vertical Depth: 12954

End Point Location from Lease,  
Unit, or Property Line: 101

Notes:

Category

Description

DEEP SURFACE CASING

1/19/2017 - 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

1/19/2017 - 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

LOCATION EXCEPTION - 654240

1/25/2017 - G60 - (I.O) 21-15N-13W & 28-15N-13W  
X653559 MSSP, WDFD 21-15N-13W  
X653560 MSSP, WDFD 28-15N-13W  
COMPL. INT. (21-15N-13W) NCT 150' FNL, NCT 0' FSL, NCT 330' FEL  
COMPL. INT. (28-15N-13W) NCT 0' FNL, NCT 150' FSL, NCT 330' FEL  
NO OP. NAMED  
7/13/16

MEMO

1/19/2017 - G71 - PITS 1 & 2 - CLOSED SYSTEM=STEEL PITS PER OPERATOR REQUEST, PIT 2 - OBM RETURNED TO VENDOR, CUTTINGS PERMITTED PER DISTRICT

SPACING - 653559

1/25/2017 - G60 - (640) 21-15N-13W  
EXT OTHER  
EST MSSP, WDFD, OTHER

SPACING - 653560

1/25/2017 - G60 - (640) 28-15N-13W  
EST MSSP, WDFD, OTHER

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

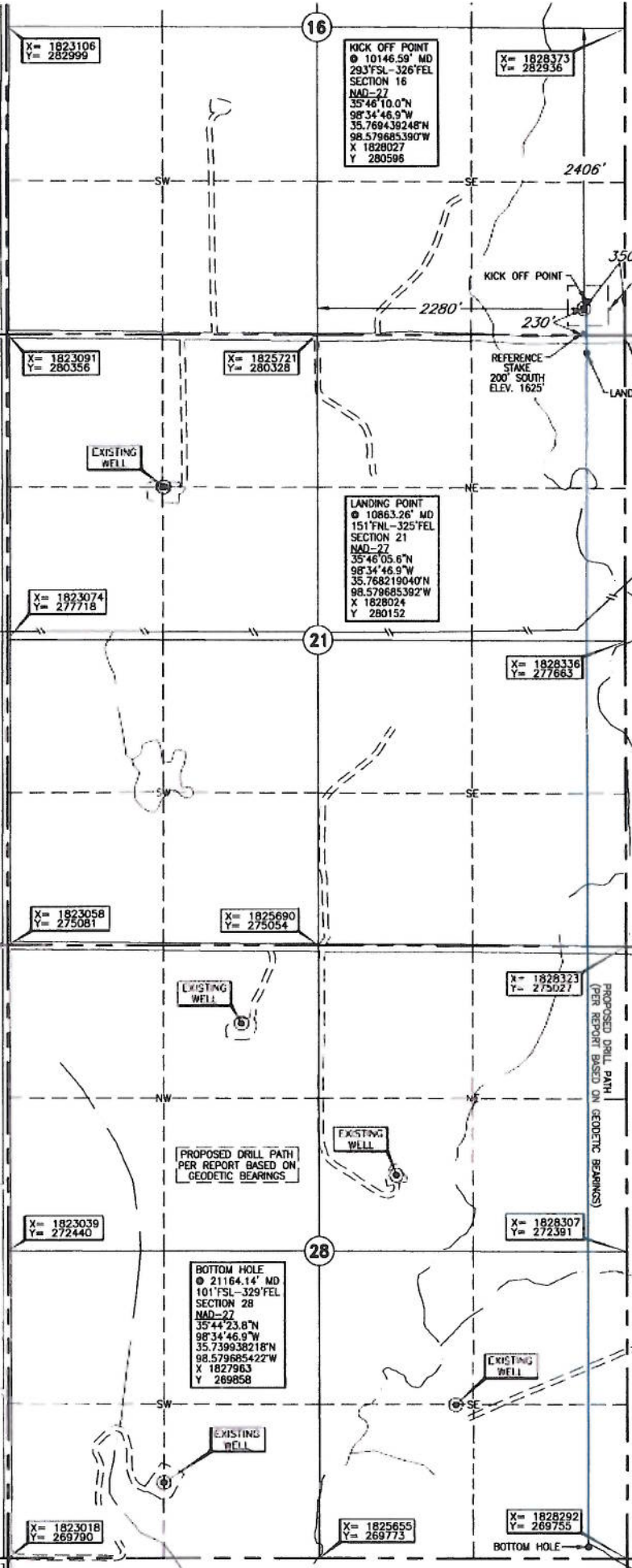
SPACING - 654345

1/25/2017 - G60 - (640) 21-15N-13W & 28-15N-13W  
EST MULTIUNIT HORIZONTAL WELL  
X653559 MSSP, WDFD 21-15N-13W  
X653560 MSSP, WDFD 28-15N-13W  
(WDFD IS AN ASSOCIATED COMMON SOURCE OF SUPPLY TO MSSP)  
50% 21-15N-13W  
50% 28-15N-13W

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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.

**NOTE-**  
Kick off Point, Landing Point and Bottomhole plotted by information provided by Client.

**TOPOGRAPHIC LAND SURVEYORS OF OKLAHOMA**  
6708 NORTH CUSSEN BLVD., OKLA. CITY, OKLA. 73115 • LOCAL (405) 843-4847 • OUT OF STATE (800) 654-3219  
BLAINE Certificate of Authorization No. 129775 County, Oklahoma  
Range 13W I.M.  
Section 16 Township 15N



Operator: MARATHON OIL COMPANY  
Lease Name: SPANGLER BIA  
Well No.: 1-21-28XH  
Topography & Vegetation Loc. fell in sloped pasture, ±233' South to right-of-way fence  
ELEVATION: 1630' Gr. at Stake  
DATE: MAD-27  
LAT: 35°46'09.4"N  
LONG: 98°34'47.2"W  
Landing Point: (1) 200' South - Elev. 1625' (2) 200' East - Elev. 1650'  
Reference: (1) 200' South - Elev. 1625' (2) 200' East - Elev. 1650'  
Best Accessibility to Location: From South of county road  
Distance & Direction: From Jct. of St. Hwy. 33 SW-E and St. Hwy. 58 N and US Hwy. 281-St.  
Hwy. 3 NW-E, go ±2.5 mi. East on US Hwy. 281-St. Hwy. 3, then ±4.0 mi. South, then ±3.0 mi. West then ±1.0 mi. South, then ±1.0 mi. East to the SE Cor. of Sec. 16-T15N-R13W

**NOTE:**  
The information shown here is for construction purposes only.  
This information was gathered with a GPS receiver with ±1 foot Horiz./Vert. accuracy.

Revision  A Date of Drawing: August 9, 2016 JP  
Invoice # 258448 Date Staked: Mar. 11, 2016 AC

**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.  
Oklahoma Lic. No. 1433

