

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

API NUMBER: 151 24495

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

Horizontal Hole Oil & Gas

PERMIT TO DRILL

WELL LOCATION: Sec: 11 Twp: 26N Rge: 15W County: WOODS
SPOT LOCATION: NW NW NW NE FEET FROM QUARTER: FROM NORTH FROM EAST
SECTION LINES: 220 2450

Lease Name: BIRDSALL 2615 Well No: 1H-11 B Well will be 220 feet from nearest unit or lease boundary.
Operator Name: MIDSTATES PETROLEUM COMPANY LLC Telephone: 9189478550 OTC/OCC Number: 23079 0

MIDSTATES PETROLEUM COMPANY LLC
321 S BOSTON AVE STE 1000
TULSA, OK 74103-3322

NORVILLE RITTER & LADONNA RITTER H&W AS JT
P.O. BOX 146
ALVA OK 73717

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

Name	Depth	Name	Depth
1 MISSISSIPPI LIME	5626	6	
2		7	
3		8	
4		9	
5		10	

Spacing Orders: 73247

Location Exception Orders:

Increased Density Orders:

Pending CD Numbers: 201604591

Special Orders:

Total Depth: 11200

Ground Elevation: 1513

Surface Casing: 1050

Depth to base of Treatable Water-Bearing FM: 800

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: 25000 Average: 8000

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 AP/TE DEPOSIT

Pit Location Formation: TERRACE

E. Haul to Commercial pit facility: Sec. 10 Twn. 26N Rng. 15W Cnty. 151 Order No: 563714
H. CLOSED SYSTEM=STEEL PITS PER OPERATOR REQUEST

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.

HORIZONTAL HOLE 1

Sec 11 Twp 26N Rge 15W County WOODS

Spot Location of End Point: S2 S2 SE SW

Feet From: SOUTH 1/4 Section Line: 165

Feet From: WEST 1/4 Section Line: 1980

Depth of Deviation: 5200

Radius of Turn: 668

Direction: 185

Total Length: 4950

Measured Total Depth: 11200

True Vertical Depth: 5626

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

Additional Surface Owner	Address	City, State, Zip
E. FRED BIRDSALL TTEE, RUTH AN	2836 BELLEFONTAINE ST.	HOUSTON, TX 77025

Notes:

Category

Description

HYDRAULIC FRACTURING

12/1/2016 - 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.

PENDING CD - 201604591

12/5/2016 - G64 - (I.O.) 11-26N-15W
X73247 MSSLM
COMPL. INT. NCT 165' TO NL, NCT 165' TO SL, NCT 1320' TO WL
NO OP. NAMED
REC. 11-8-2016 (MCKEOWN)

SPACING - 73247

12/5/2016 - G64 - (640) 11-26N-15W
EXT 58325/49792 MSSLM

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
WOODS

County, Oklahoma

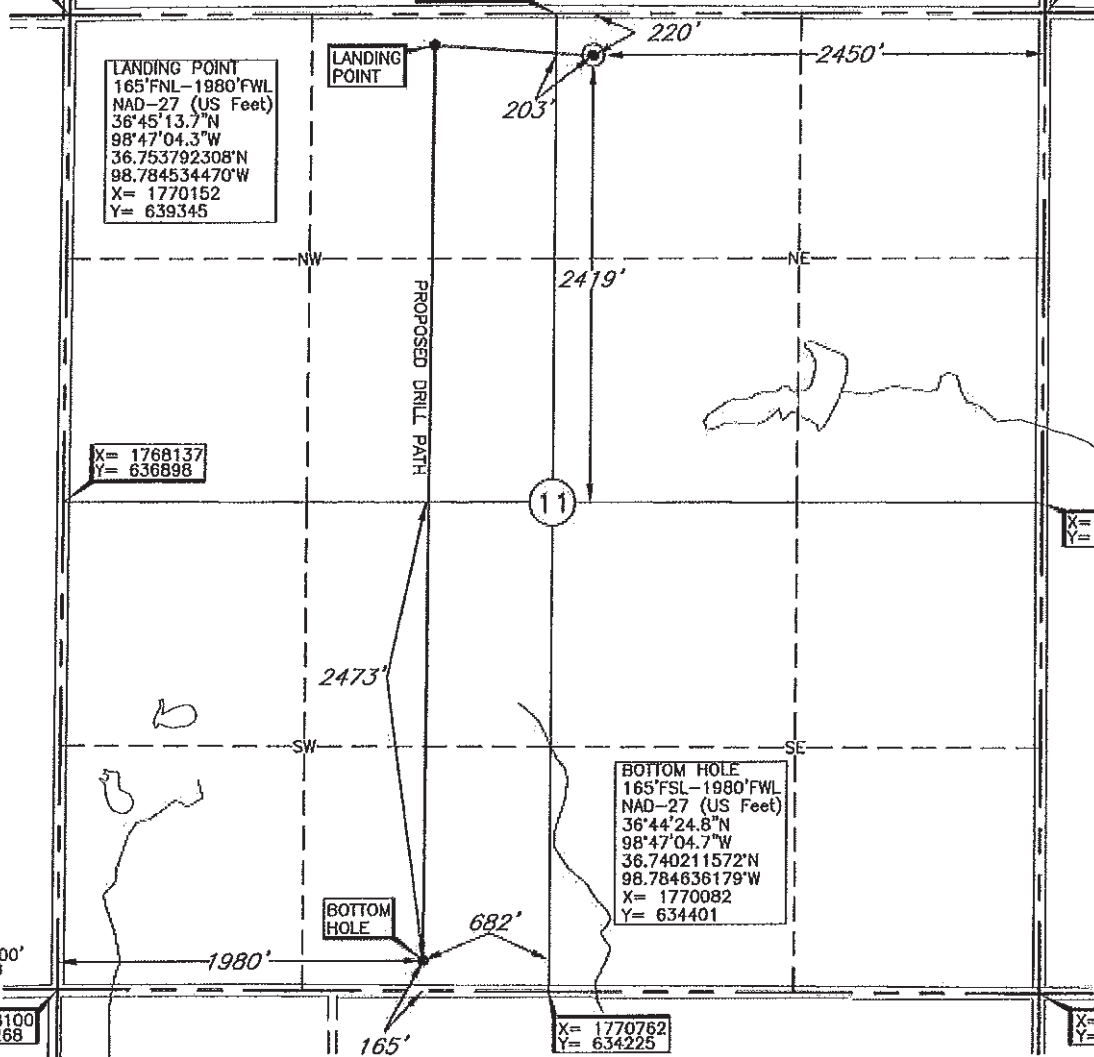
220'FNL-2450'FEL Section 11 Township 26N Range 15W I.M.

X= 1768174
Y= 639528

X= 1770811
Y= 639504

X= 1773464
Y= 639481

NOTE:
The information shown herein is for construction purposes ONLY.



LANDING POINT
165'FNL-1980'FWL
NAD-27 (US Feet)
36°45'13.7"N
98°47'04.3"W
36.753792308"N
98.784534470"W
X= 1770152
Y= 639345

LANDING POINT

BOTTOM HOLE
165'FSL-1980'FWL
NAD-27 (US Feet)
36°44'24.8"N
98°47'04.7"W
36.740211572"N
98.784636179"W
X= 1770082
Y= 634401

X= 1768137
Y= 636898

X= 1773443
Y= 636834

X= 1768100
Y= 634268

X= 1770762
Y= 634225

X= 1773424
Y= 634183

Operator: MIDSTATES PETROLEUM COMPANY, LLC

Lease Name: BIRDSALL

Well No.: 1H-11 B

ELEVATION:

1513' Gr. at Stake

Topography & Vegetation Loc. fell in level wheat field

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

Best Accessibility to Location From North off county road

Distance & Direction from Hwy Jct or Town From Avard, OK, go North ±4 miles, then ±1 mile East to the NE Cor. of Sec. 11-T26N-R15W.

Date of Drawing: Nov. 29, 2016

Invoice # 268601 Date Staked: Nov. 2, 2016

TR

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

DATUM: NAD-27
LAT: 36°45'13.1"N
LONG: 98°46'53.7"W
LAT: 36.753639465°N
LONG: 98.781596157°W
STATE PLANE
COORDINATES: (US Feet)
ZONE: OK NORTH
X: 1771012
Y: 639283

CERTIFICATE:

I, Thomas L. Howell an 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. 1433

