

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

API NUMBER: 003 23311

Approval Date: 04/12/2018

Expiration Date: 10/12/2018

Horizontal Hole Oil & Gas

PERMIT TO DRILL

WELL LOCATION: Sec: 01 Twp: 24N Rge: 12W County: ALFALFA

SPOT LOCATION: ☐ NE ☐ NW ☐ NW ☐ NW FEET FROM QUARTER: FROM NORTH FROM WEST

SECTION LINES: 171 610

Lease Name: LOIS 2512 Well No: 36-25XH 1 Well will be 171 feet from nearest unit or lease boundary.

Operator Name: MIDSTATES PETROLEUM CO LLC

Telephone: 9189478550

OTC/OCC Number: 23079 0

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

NEAL HOFFMAN, POA FOR LOIS KASSIK
503 MYERS DRIVE
ALVA OK 73717

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

Name	Depth	Name	Depth
1 MISSISSIPPIAN	6146	6	
2		7	
3		8	
4		9	
5		10	

Spacing Orders: 601248

Location Exception Orders:

Increased Density Orders:

Pending CD Numbers: 201802617
201802615
201802618

Special Orders:

Total Depth: 16612

Ground Elevation: 1357

Surface Casing: 340

Depth to base of Treatable Water-Bearing FM: 290

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

E. Haul to Commercial pit facility: Sec. 10 Twn. 26N Rng. 15W Cnty. 151 Order No: 563714

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 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: FLOWERPOT

HORIZONTAL HOLE 1

Sec 25 Twp 25N Rge 12W County ALFALFA

Spot Location of End Point: N2 N2 N2 NW

Feet From: NORTH 1/4 Section Line: 165

Feet From: WEST 1/4 Section Line: 1320

Depth of Deviation: 5574

Radius of Turn: 900

Direction: 350

Total Length: 9624

Measured Total Depth: 16612

True Vertical Depth: 6263

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

Notes:

Category

Description

HYDRAULIC FRACTURING

4/6/2018 - 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

MEMO

4/6/2018 - G71 - PIT 1 & 2 - CLOSED SYSTEM=STEEL PITS PER OPERATOR REQUEST; PIT 2 - OBM TO VENDOR, OBM CUTTINGS PER DISTRICT

PENDING CD - 201802615

4/11/2018 - G75 - (E.O.)(640)(HOR) 36-25N-12W
VAC 105348 MNNG
EXT 601248 MSSP
POE TO BHL NLT 660' FB
(COEXIST SP. ORDER # 192790 MISS)
MIDSTATES PETRO. CO. LLC
REC 4-10-2018 (JOHNSON)

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

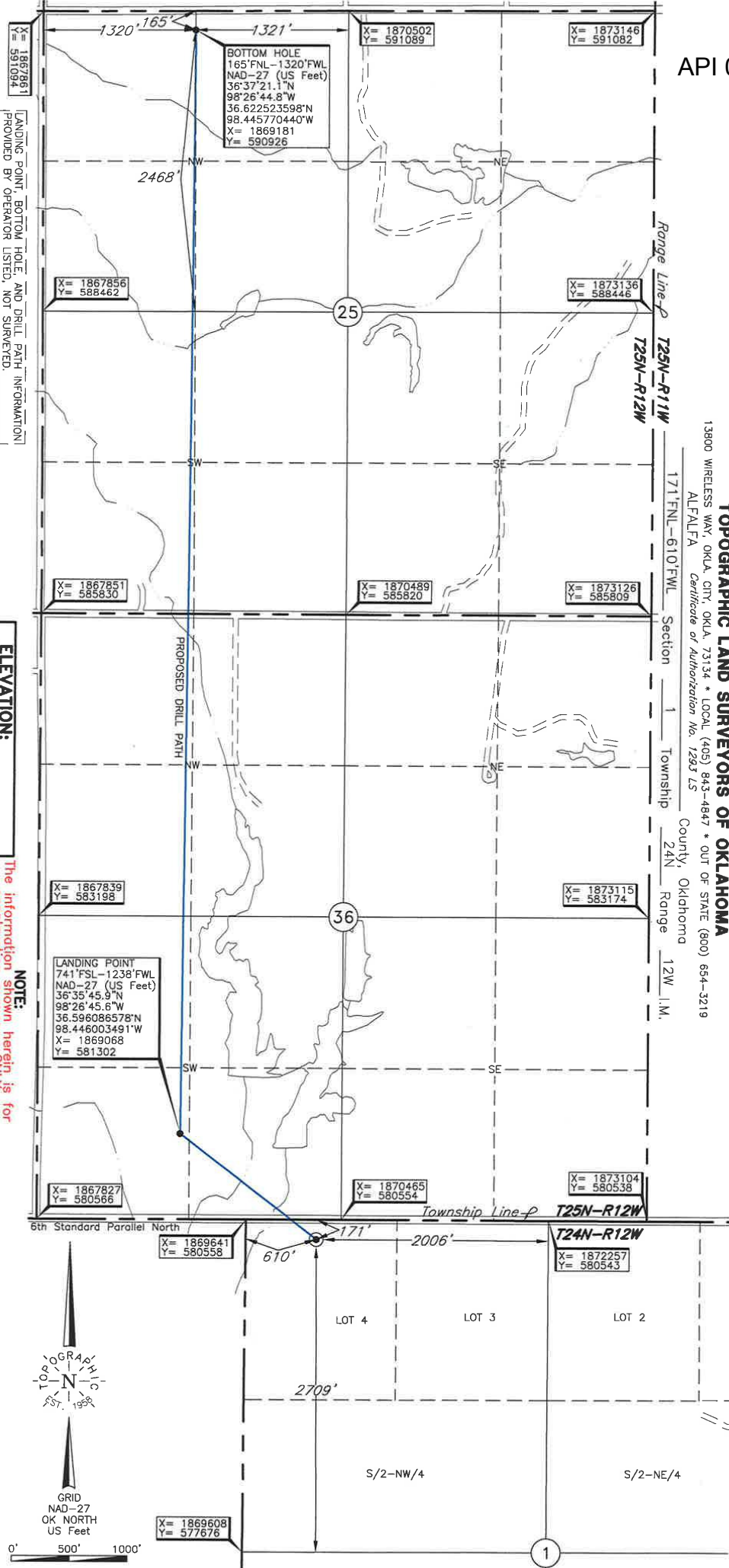
The duration of this permit is SIX MONTHS, except as otherwise provided by Rule 165: 10-3-1.

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.

003 23311 LOIS 2512 36-25XH 1

Category	Description
PENDING CD - 201802617	4/11/2018 - G75 - (E.O.) 36 & 25-25N-12W EST MULTIUNIT HORIZONTAL WELL X201802615 MSSP 36-25N-12W X601248 MSSP 25-25N-12W 47% 36-25N-12W 53% 25-25N-12W MIDSTATES PETRO. CO. LLC REC 4-10-2018 (JOHNSON)
PENDING CD - 201802618	4/11/2018 - G75 - (E.O.) 36 & 25-25N-12W X201802615 MSSP 36-25N-12W X601248 MSSP 25-25N-12W COMPL. INT. (36-25N-12W) NCT 165' TO SL, NCT 0' TO NL, NCT 990' TO WL COMPL. INT. (25-25N-12W) NCT 0' TO SL, NCT 165' TO NL, NCT 990' TO WL MIDSTATES PETRO. CO. LLC REC 4-10-2018 (JOHNSON)
SPACING - 601248	4/11/2018 - G75 - (640)(HOR) 25-25N-12W EST MSSP POE TO BHL NCT 660' FB (SUPERSEDE NON-PRODUCING NON-HORIZONTAL SPACING UNITS; COEXIST WITH PRODUCING NON-HORIZONTAL SPACING UNITS)

TOPOGRAPHIC LAND SURVEYORS OF OKLAHOMA 13800 WIRELESS WAY, OKLA. CITY, OKLA. 73134 * LOCAL (405) 843-4847 * OUT OF STATE (800) 654-3219 ALFALFA Certificate of Authorization No. 1293 LS

 County, Oklahoma
 24N Range 12W 1.M.
 
 LANDING POINT, BOTTOM HOLE, AND DRILL PATH INFORMATION
 PROVIDED BY OPERATOR LISTED, NOT SURVEYED.

 ELEVATION:
 1357' Gr. at Level Pod

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

 Operator: MIDSTATES PETROLEUM COMPANY, LLC
 Lease Name: LOIS 2512
 Topography & Vegetation: Loc. fell on level pod
 Good Drill Site? Yes
 Reference Stakes or Alternate Location: Stakes Set None
 Best Accessibility to Location: From North off county road
 Distance & Direction: From Carmen, OK, go North ± 1 miles, then East ± 1 mile to the NW Cor. of Sec. 1-T24N-R12W.

 DATUM: NAD-27
 LAT: 36°35'36.9"N
 LONG: 98°26'31.1"W
 LAT: 36°35'35.78356"N
 LONG: 98°26'31.1"W
 STATE PLANE
 COORDINATES: (US Feet)
 ZONE: OK NORTH
 X: 1870249
 Y: 580384

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

 Date of Drawing: Apr. 2, 2018
 Invoice # 291660 Date Staked: Mar. 13, 2018
 TR
 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
 