

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

API NUMBER: 003 23282

Approval Date: 07/26/2017
Expiration Date: 01/26/2018

Horizontal Hole Oil & Gas

PERMIT TO DRILL

WELL LOCATION: Sec: 01 Twp: 24N Rge: 12W County: ALFALFA
SPOT LOCATION: N2 N2 NW NW FEET FROM QUARTER: FROM NORTH FROM WEST
SECTION LINES: 225 660

Lease Name: LOIS 2412 Well No: 1H-01 C Well will be 225 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 F/LOIS KASSIK
13593 SH 8
CARMEN OK 73726

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

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

Spacing Orders: 661491

Location Exception Orders: 664805

Increased Density Orders:

Pending CD Numbers:

Special Orders:

Total Depth: 11200

Ground Elevation: 1358

Surface Casing: 1300

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. CLOSED SYSTEM=STEEL PITS PER OPERATOR REQUEST

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.

HORIZONTAL HOLE 1

Sec 01 Twp 24N Rge 12W County ALFALFA

Spot Location of End Point: S2 S2 SW SE

Feet From: SOUTH 1/4 Section Line: 165

Feet From: EAST 1/4 Section Line: 1980

Depth of Deviation: 5200

Radius of Turn: 668

Direction: 150

Total Length: 4950

Measured Total Depth: 11200

True Vertical Depth: 6320

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

Notes:

Category	Description
DEEP SURFACE CASING	7/12/2017 - 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	7/12/2017 - 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/ 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 - 664805	7/25/2017 - G64 - (I.O.) 1-24N-12W X661491 MSSP COMPL. INT. NCT 165' FNL, NCT 165' FSL, NCT 600' FEL MIDSTATES PETROLEUM COMPANY LLC 6-13-2017
SPACING - 661491	7/25/2017 - G64 - (640)(HOR) 1-24N-12W VAC 59196/61020 MSSLM VAC 281558 MSSLM VAC 105348 MNNG EST MSSP COMPL. INT. NCT 660' FB

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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.

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

ALFALFA

County, Oklahoma

225'FNL-660'FWL Section 1 Township 24N Range 12W I.M.

X= 1869641
Y= 580558

X= 1870465
Y= 580554

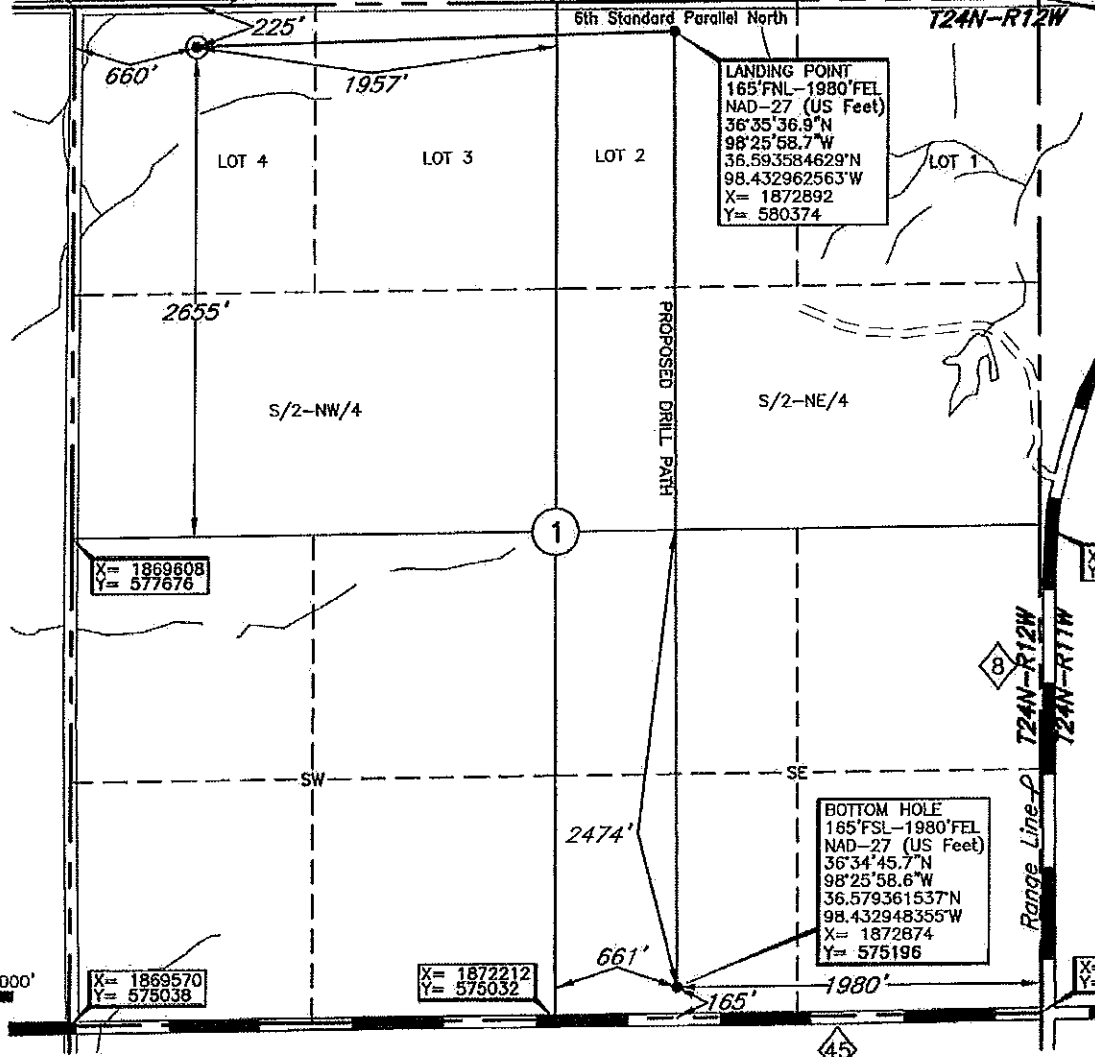
X= 1872257
Y= 580543

X= 1873104
Y= 580538

Township Line P T25N-R12W

X= 1874873
Y= 580531

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



LANDING POINT
165'FNL-1980'FEL
NAD-27 (US Feet)
36°35'36.9"N
98°25'58.7"W
36.593584629°N
98.432962563°W
X= 1872892
Y= 580374

BOTTOM HOLE
165'FSL-1980'FEL
NAD-27 (US Feet)
36°34'45.7"N
98°25'58.6"W
36.579361537°N
98.432948355°W
X= 1872874
Y= 575196

LANDING POINT, BOTTOM HOLE, AND DRILL PATH INFORMATION PROVIDED BY OPERATOR LISTED, NOT SURVEYED.

Operator: MIDSTATES PETROLEUM COMPANY, LLC

Lease Name: LOIS 2412

Well No.: 1H-1C

ELEVATION:

1358' Gr. at Stake

Topography & Vegetation Loc. fell in level grass pasture.

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 Carmen, OK, go North ±1 miles, then East ±1 mile to the

NW Cor. of Sec. 1-T24N-R12W.

Date of Drawing: May 11, 2017

Invoice # 275430 Date Staked: May 3, 2017 TR

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

DATUM: NAD-27
 LAT: 36°35'36.3"N
 LONG: 98°26'30.5"W
 LAT: 36.593429668°N
 LONG: 98.441798106°W
 STATE PLANE COORDINATES: (US Feet)
 ZONE: OK NORTH
 X: 1870298
 Y: 580329

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

