

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

API NUMBER: 003 23310

Approval Date: 04/11/2018
Expiration Date: 10/11/2018

Horizontal Hole Oil & Gas

PERMIT TO DRILL

WELL LOCATION: Sec: 01 Twp: 24N Rge: 12W County: ALFALFA
SPOT LOCATION: NE NW SE SW FEET FROM QUARTER: FROM NORTH FROM WEST
SECTION LINES: 171 610

Lease Name: LOIS 2412 Well No: 1-12XH 1A Well will be _____ feet from nearest unit or lease boundary.
Operator Name: MIDSTATES PETROLEUM CO L.P. Telephone: 9189478550 OTC/OCC Number: 23079 0

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

NEEL HOFFMAN, POA FOR LOIS KASSIK
1003 MYERS DRIVE
ALVA OK 73717

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

	Name	Depth	Name	Depth
1	MISSISSIPPIAN	6140		6
2				7
3				8
4				9
5				10

Spacing Orders: 661491
663315

Location Exception Orders:

Increased Density Orders:

Pending CD Numbers: 201802055
201802056
201802057
201802058

Special Orders:

Total Depth: 16480 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

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 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

Approved Method for disposal of Drilling Fluids:

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

H. SEE MEMO

cancelled per operator request 5/10/2018

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 12 Twp 24N Rge 12W County ALFALFA

Spot Location of End Point: S2 S2 SW SW

Feet From: SOUTH 1/4 Section Line: 165

Feet From: WEST 1/4 Section Line: 660

Depth of Deviation: 5480

Radius of Turn: 347

Direction: 180

Total Length: 10454

Measured Total Depth: 16480

True Vertical Depth: 6245

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

Notes:

Category

Description

HYDRAULIC FRACTURING

4/3/2018 - 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

4/3/2018 - G71 - PITS 1 & 2 - CLOSED SYSTEM=STEEL PITS PER OPERATOR REQUEST, PIT 2 - OBM RETURNED TO VENDOR, CUTTINGS PERMITTED PER DISTRICT

PENDING CD - 201802054

4/4/2018 - G58 - (E.O.) 1 & 12-24N-12W
EST MULTIUNIT HORIZONTAL WELL
X661491 MSSP (1-24N-12W)
X663315 MSSP (12-24N-12W)
46% 1-24N-12W
54% 12-24N-12W
NO OP. NAMED
REC 4/6/2018 (DUNN)

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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.

Category	Description
PENDING CD - 201802055	4/4/2018 - G58 - (E.O.) 1 & 12-24N-12W X661491 MSSP (1-24N-12W) X663315 MSSP (12-24N-12W) COMPL. INT. (1-24N-12W) NCT 165' FNL, NCT 0' FSL, NCT 330' FWL COMPL. INT. (12-24N-12W) NCT 0' FWL, NCT 165' FSL, NCT 330' FWL NO OP. NAMED REC 4/6/2018 (DUNN)
PENDING CD - 201802056	4/4/2018 - G58 - 1-24N-12W X661491 MSSP 1 WELL NO OP. NAMED REC 4/6/2018 (DUNN)
PENDING CD - 201802057	4/4/2018 - G58 - 12-24N-12W X663315 MSSP 1 WELL NO OP. NAMED HEARING 4/6/2018
SPACING - 661491	4/4/2018 - G58 - (640)(HOR) 1-24N-12W VAC 59196/61020 MSSLM VAC 281558 MSSLM VAC 105348 MNNG EST MSSP COMPL. INT. NCT 660' FB
SPACING - 663315	4/4/2018 - G58 - (640)(HOR) 12-24N-12W VAC 59196/61020 MSSLM VAC 105348 MNNG EXT 661490 MSSP COMPL. INT. NCT 660' FB

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TOPOGRAPHIC LAND SURVEYORS OF OKLAHOMA

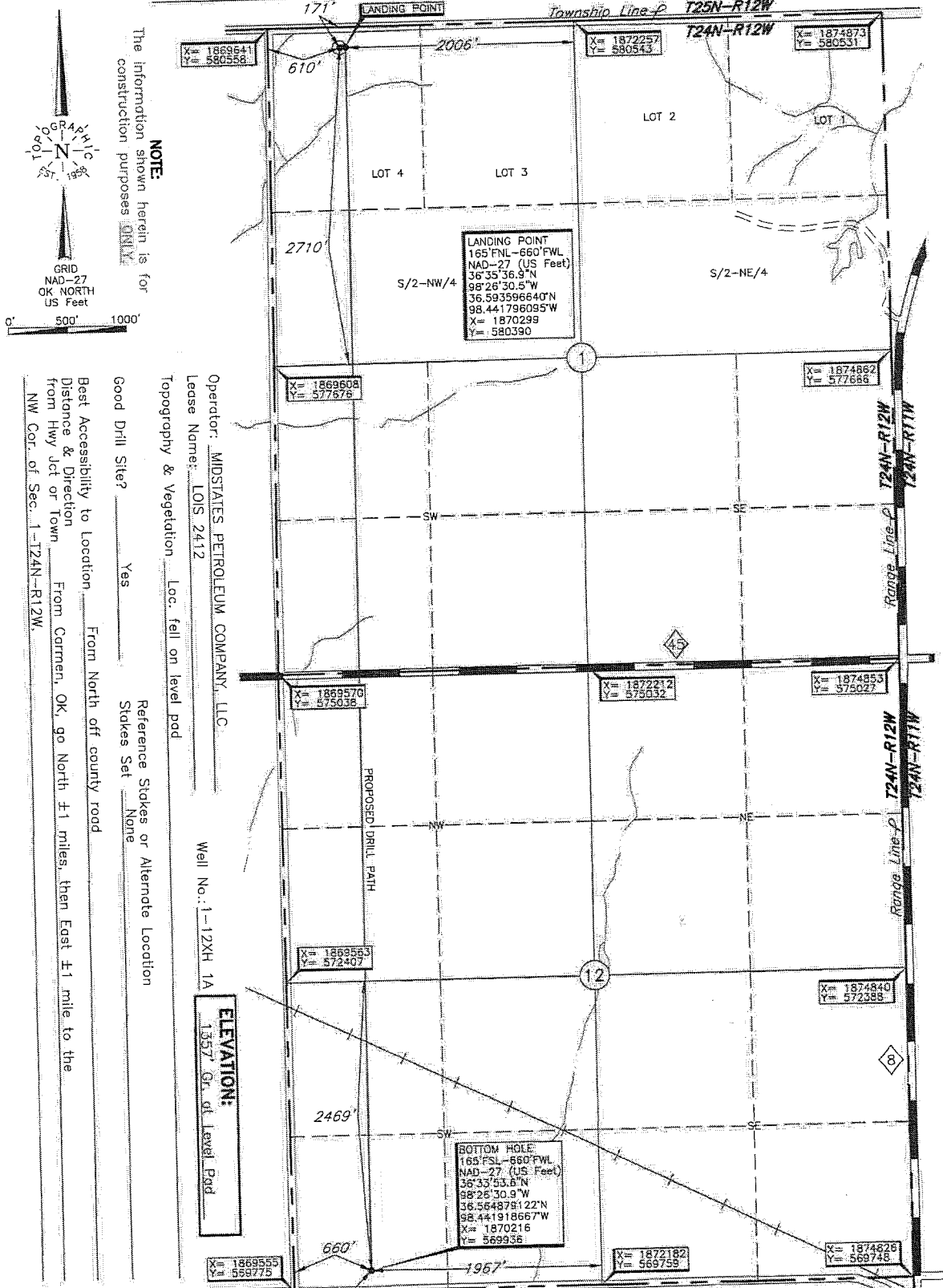
13800 WIRELESS WAY, OKLA. CITY, OKLA. 73134 * LOCAL (405) 843-4847 * OUT OF STATE (800) 654-3219
 Certificate of Authorization No. 1293 LS

003-23310

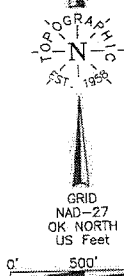
ALFALFA

County, Oklahoma

171° FNL-610° FWL Section 1 Township 24N Range 12W I.M.



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



Operator: MIDSTATES PETROLEUM COMPANY, LLC
 Lease Name: LOIS 2412
 Topography & Vegetation: Loc. fell on level pad
 Well No.: 1-12XH 1A
 ELEVATION: 1357' Gr. of Level Pad
 Good Drill Site? Yes
 Reference Stakes or Alternate Location: Stakes Set None
 Best Accessibility to Location: From North off county road
 Distance & Direction: From Corran, OK, go North ±1 miles, then East ±1 mile to the NW Cor. of Sec. 1-T24N-R12W.

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

Revision Date of Drawing: Mar. 14, 2018
 Invoice # 289847A Date Staked: Mar. 13, 2018 TR

DATUM: NAD-27
 LAT: 36°35'36.9"N
 LONG: 98°26'31.1"W
 LAT: 36.593578356°N
 LONG: 98.441966346°W
 STATE PLANE COORDINATES: (US Feet)
 ZONE: OK NORTH
 X: 1870249
 Y: 580384

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

