

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

API NUMBER: 003 23315

Approval Date: 05/08/2018

Expiration Date: 11/08/2018

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: 156 610

Lease Name: LOIS 2412

Well No: 2-11XH 1D

Well will be 156 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 74103-3320

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	6130	6	
2			8	
3			9	
4			10	
5				

Spacing Orders: No Spacing

Location Exception Orders:

Increased Density Orders:

Pending CD Numbers: 201802182
201802183
201802186
201802187

Special Orders:

Total Depth: 16480

Ground Elevation: 1357

Surface Casing: 340

Depth to base of Tremble 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

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

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

J.C.

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.

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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	6130	6	
2		7	
3		8	
4		9	
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Location Exception Orders:

Increased Density Orders:

Pending CD Numbers: 201802182
201802183
201802186
201802187

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

Approved Method for disposal of Drilling Fluids:

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H. SEE MEMO

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Wellhead Protection Area? N

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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: 5501

Radius of Turn: 336

Direction: 190

Total Length: 10452

Measured Total Depth: 16480

True Vertical Depth: 6130

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

Notes:

Category

Description

HYDRAULIC FRACTURING

3/23/2018 - 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

3/23/2018 - G71 - PITS 1 & 2 - CLOSED SYSTEM=STEEL PITS PER OPERATOR REQUEST, PIT 2 - OBM RETURNED TO VENDOR, CUTTINGS PERMITTED PER DISTRICT

PENDING CD - 201802182

4/4/2018 - G58 - (I.O.) 2 & 11-24N-12W
EST MULTIUNIT HORIZONTAL WELL
X667352 MSSP (2-24N-12W)
X665724 MSSP (11-24N-12W)
46% 2-24N-12W
54% 11-24N-12W
NO OP. NAMED
REC 5/1/2018 (JOHNSON)

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

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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.

003 23315 LOIS 2412 2-11XH 1D

Category	Description
PENDING CD - 201802183	4/4/2018 - G58 - (I.O.) 2 & 11-24N-12W X667352 MSSP (2-24N-12W) X665724 MSSP (11-24N-12W) COMPL. INT. (2-24N-12W) NCT 165' FNL, NCT 0' FSL, NCT 600' FEL COMPL. INT. (11-24N-12W) NCT 0' FNL, NCT 165' FSL, NCT 600' FEL NO OP. NAMED REC 5/1/2018 (JOHNSON)
PENDING CD - 201802186	4/4/2018 - G58 - 2-24N-12W X667352 MSSP 1 WELL NO OP. NAMED REC 5/1/2018 (JOHNSON)
PENDING CD - 201802187	4/4/2018 - G58 - 11-24N-12W X665724 MSSP 1 WELL NO OP. NAMED REC 5/1/2018 (JOHNSON)
SPACING - 665724	3/27/2018 - G58 - (640)(HOR) 11-24N-12W VAC 59196/61020 MSSLM VAC 105348 MNNG EXT 661491 MSSP POE TO BHL NCT 660' FB
SPACING - 667352	3/27/2018 - G58 - (640)(HOR) 2-24N-12W VAC 59196/61020 MSSLM VAC 105348 MNNG EXT 661491 MSSP COMPL. INT. NCT 660' FB