

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

API NUMBER: 151 24539

Approval Date: 08/17/2018

Expiration Date: 02/17/2019

Horizontal Hole Oil & Gas

PERMIT TO DRILL

WELL LOCATION: Sec: 09 Twp: 26N Rge: 14W County: WOODS  
SPOT LOCATION: ☐ NW ☐ SW ☐ SW ☐ SW FEET FROM QUARTER: FROM SOUTH FROM WEST  
SECTION LINES: 410 225

Lease Name: ERMA LEE 2614 Well No: 1-9-4XH 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

SONDRA CASTILLO  
913 WILLOW CREEK CIR  
ENID OK 73703

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

	Name	Depth	Name	Depth
1	MISSISSIPPIAN	5660	6	
2	MISSISSIPPI LIME	5713	7	
3			8	
4			9	
5			10	

Spacing Orders: 78190  
78764  
607240

Location Exception Orders:

Increased Density Orders:

Pending CD Numbers: 201805964  
201805965  
201805966  
201805967

Special Orders:

Total Depth: 15921 Ground Elevation: 1460 Surface Casing: 640 Depth to base of Treatable Water-Bearing FM: 590

Under Federal Jurisdiction: No Fresh Water Supply Well Drilled: No Surface Water used to Drill: No

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: 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

HORIZONTAL HOLE 1

Sec 04 Twp 26N Rge 14W County WOODS

Spot Location of End Point: NW NE NE NW

Feet From: NORTH 1/4 Section Line: 165

Feet From: WEST 1/4 Section Line: 2000

Depth of Deviation: 4998

Radius of Turn: 610

Direction: 8

Total Length: 9964

Measured Total Depth: 15921

True Vertical Depth: 5839

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

Notes:

Category

Description

HYDRAULIC FRACTURING

8/15/2018 - 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](http://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](http://FRACFOCUS.ORG)

MEMO

8/15/2018 - G71 - PITS 1 & 2 - CLOSED SYSTEM=STEEL PITS PER OPERATOR REQUEST, PIT 2 - OBM RETURNED TO VENDOR, CUTTINGS PERMITTED PER DISTRICT

PENDING CD - 201805964

8/17/2018 - G58 - (E.O.) 4 & 9-26N-14W  
EST MULTIUNIT HORIZONTAL WELL  
X78190 & 787164\*\* MSSLM 4-26N-14W  
X607240 MSSP 9-26N-14W  
54% 4-26N-14W  
46% 9-26N-14W  
NO OP. NAMED  
REC 8/14/2018 (JOHNSON)

\*\*S/B SP. ORDER 78764; WILL CORRECT AT HEARING PER ATTORNEY FOR OP.

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

151 24539 ERMA LEE 2614 1-9-4XH

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.

Category	Description
PENDING CD - 201805965	8/17/2018 - G58 - (E.O.) 4 & 9-26N-14W X78190 & 787164** MSSLM 4-26N-14W X607240 MSSP 9-26N-14W COMPL. INT. 4-26N-14W NCT 165' FNL, NCT 0' FSL, NCT 600' FWL COMPL. INT. 9-26N-14W NCT 0' FNL, NCT 165' FSL, NCT 600' FWL NO OP. NAMED REC 8/14/2018 (JOHNSON)  **S/B SP. ORDER 78764; WILL CORRECT AT HEARING PER ATTORNEY FOR OP.
PENDING CD - 201805966	8/17/2018 - G58 - 4-26N-14W X78190 & 78764 MSSLM 1 WELL NO OP. NAMED REC 8/14/2018 (THOMAS)
PENDING CD - 201805967	8/17/2018 - G58 - 9-26N-14W X607240 MSSP 1 WELL NO OP. NAMED REC 8/14/2018 (THOMAS)
SPACING - 607240	8/17/2018 - G58 - (640) 9-26N-14W VAC 69537/69792 MSSLM, OTHERS EXT 596464 MSSP EST OTHERS
SPACING - 78190	8/17/2018 - G58 - (640) 4-26N-14W EXT 58634 MSSLM, OTHERS EXT OTHER EST OTHER
SPACING - 78764	8/17/2018 - G58 - (640) 4-26N-14W EXT 48634 MSSLM, OTHERS EST OTHER

WOODS

County, Oklahoma

151-24539

410'FSL - 225'FWL Section 9 Township 26N Range 14W I.M.

X 1794475  
Y 644565

Township Line - P T27N-R14W  
T26N-R14W

LOT 1

LOT 2

LOT 3

LOT 4

BOTTOM HOLE  
165'FNL-2000'FWL  
36°46'05.5" N  
98°42'46.1" W  
36.768186115' N  
98.712801121' W S/2-NW/4  
X: 1791206  
Y: 644423

X 1789172  
Y 641967

CALC. CORNER  
X 1794454  
Y 641938

X 1794504  
Y 641938  
WITNESS COR.

X 1794432  
Y 639270

X 1791794  
Y 639283

X 1789137  
Y 639296

X 1794394  
Y 636605

LANDING POINT  
935'FSL-756'FWL  
36°44'32.0" N  
98°43'01.9" W  
36.742209775' N  
98.717202732' W  
X= 1789847  
Y= 634976

X 1791718  
Y 634010

X 1794356  
Y 633967

THE INFORMATION SHOWN HEREIN IS  
FOR CONSTRUCTION PURPOSES ONLY

X 1789081  
Y 634053

SURFACE HOLE  
(NAD-83)  
36°44'26.9" N  
98°43'09.8" W

ELEVATION:  
1460' Gr. at Stake (NAVD-88)  
1460' Gr. at Stake (NGVD-29)

Well No.: 1-9-4XH

Operator: MIDSTATES PETROLEUM COMPANY, LLC  
Lease Name: ERMA LEE 2614  
Topography & Vegetation Location fell in sloped plowed field.

Good Drill Site? Yes

Reference Stakes or Alternate Location  
Stakes Set None

Best Accessibility to Location From county road west of well location.

Distance & Direction

From Hwy Jct or Town From Avar, OK., go north  $\pm 2.0$  miles, then go  $\pm 4.0$  miles east, then go north

$\pm 1.0$  mile to the Southwest Corner of Section 9, T26N-R14W.

DATUM: NAD-27  
LAT: 36°44'26.8" N  
LONG: 98°43'08.5" W  
LAT: 36.740779653° N  
LONG: 98.719021357° W  
STATE PLANE  
COORDINATES (US FEET):  
ZONE: OK NORTH  
X: 1789310  
Y: 634459

Invoice # 298111

Date of Drawing: August 16, 2018

Date Staked: July 16, 2018

JP

JGW

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.

Oklahoma Lic. No. 1433





WOODS

County, Oklahoma

410'FSL - 225'FWL Section 9 Township 26N Range 14W I.M.

X 1794475  
Y 644583



GRID  
NAD-27  
OK NORTH  
US FEET  
Scale:  
1" = 1000'

0 1000'

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



SURFACE HOLE  
(NAD-83)  
36°44'26.9" N  
98°43'09.8" W

X 1789081  
Y 634053

THE INFORMATION SHOWN HEREIN IS  
FOR CONSTRUCTION PURPOSES ONLY

Date of Drawing: August 16, 2018

JP

Invoice # 298111

Date Staked: July 16, 2018

JGW

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.

Oklahoma Lic. No. 1433



DATUM: NAD-27  
LAT: 36°44'26.8" N  
LONG: 98°43'08.5" W  
LAT: 36.740779653° N  
LONG: 98.719021357° W  
STATE PLANE  
COORDINATES (US FEET):  
ZONE: OK NORTH  
X: 1789310  
Y: 634459

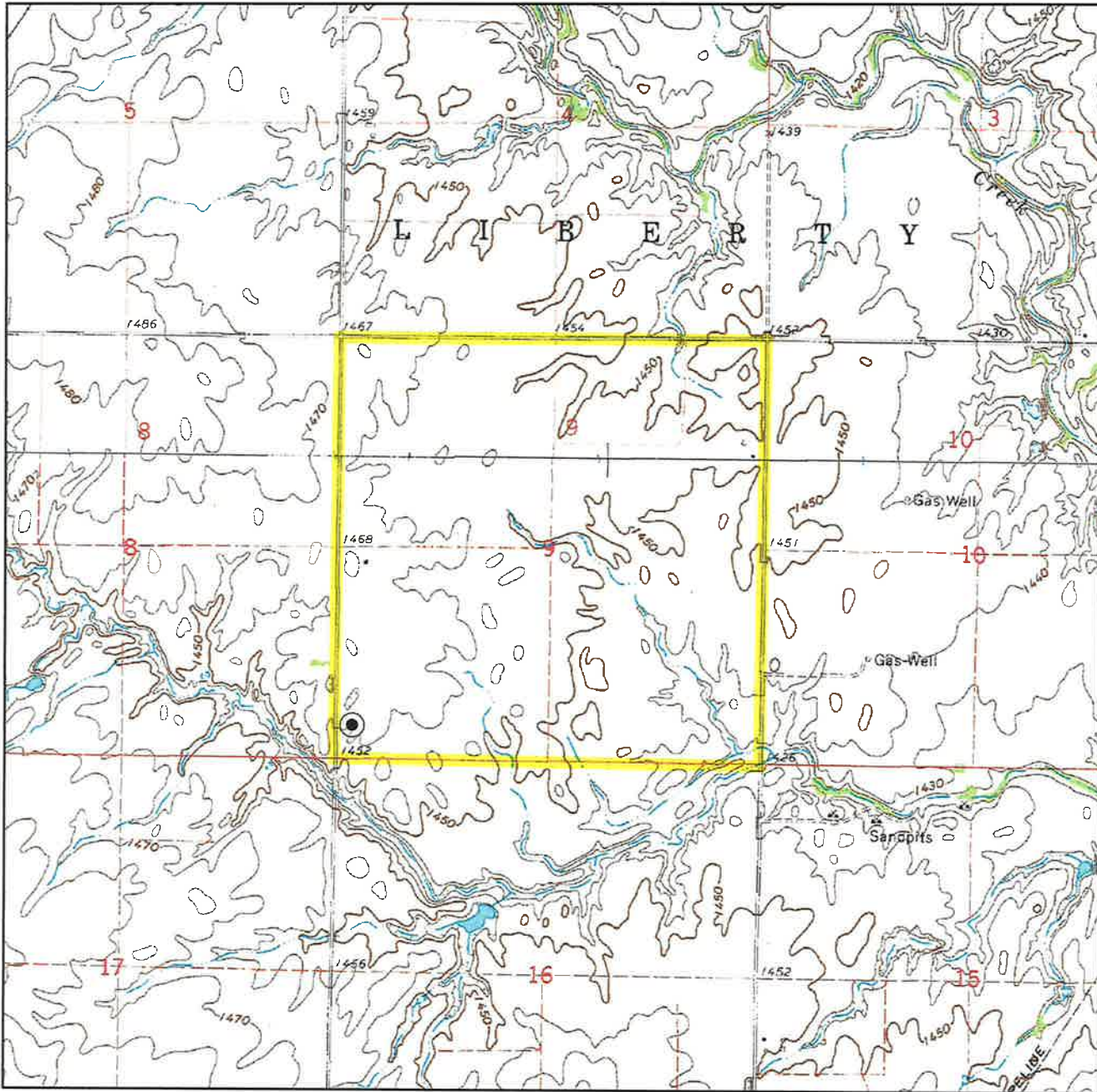
Information was gathered with a GPS receiver with a foot foot 1:1 scale.



# TOPOGRAPHIC LAND SURVEYORS OF OKLAHOMA

Surveying and Mapping for the Energy Industry  
13800 Wireless Way, Oklahoma City, OK 73134 www.topographic.com  
Telephone Numbers: Local (405) 843-4847 Toll Free (800) 654-3219

## LOCATION & ELEVATION VERIFICATION MAP



Sec. 9 Twp. 26N Rng. 14W I.M.

County WOODS State OK

Operator MIDSTATES PETROLEUM COMPANY, LLC

Description 410' FSL-225' FWL

Lease ERMA LEE 2614 1-9-4XH

Elevation 1460' Gr. at Stake (NGVD-29)

1460' Gr. at Stake (NAVD-88)

U.S.G.S. Topographic  
Quadrangle Map LIBERTY, OK

Above Background Data from  
U.S.G.S. Topographic Map

Scale: 1"=2000'

Contour Interval 10'

When elevation is shown hereon it is the ground  
elevation of the location stake.  
Review this plat and inform us immediately of  
any possible discrepancy.



LAND SURVEYORS OF OKLAHOMA

July 16, 2018



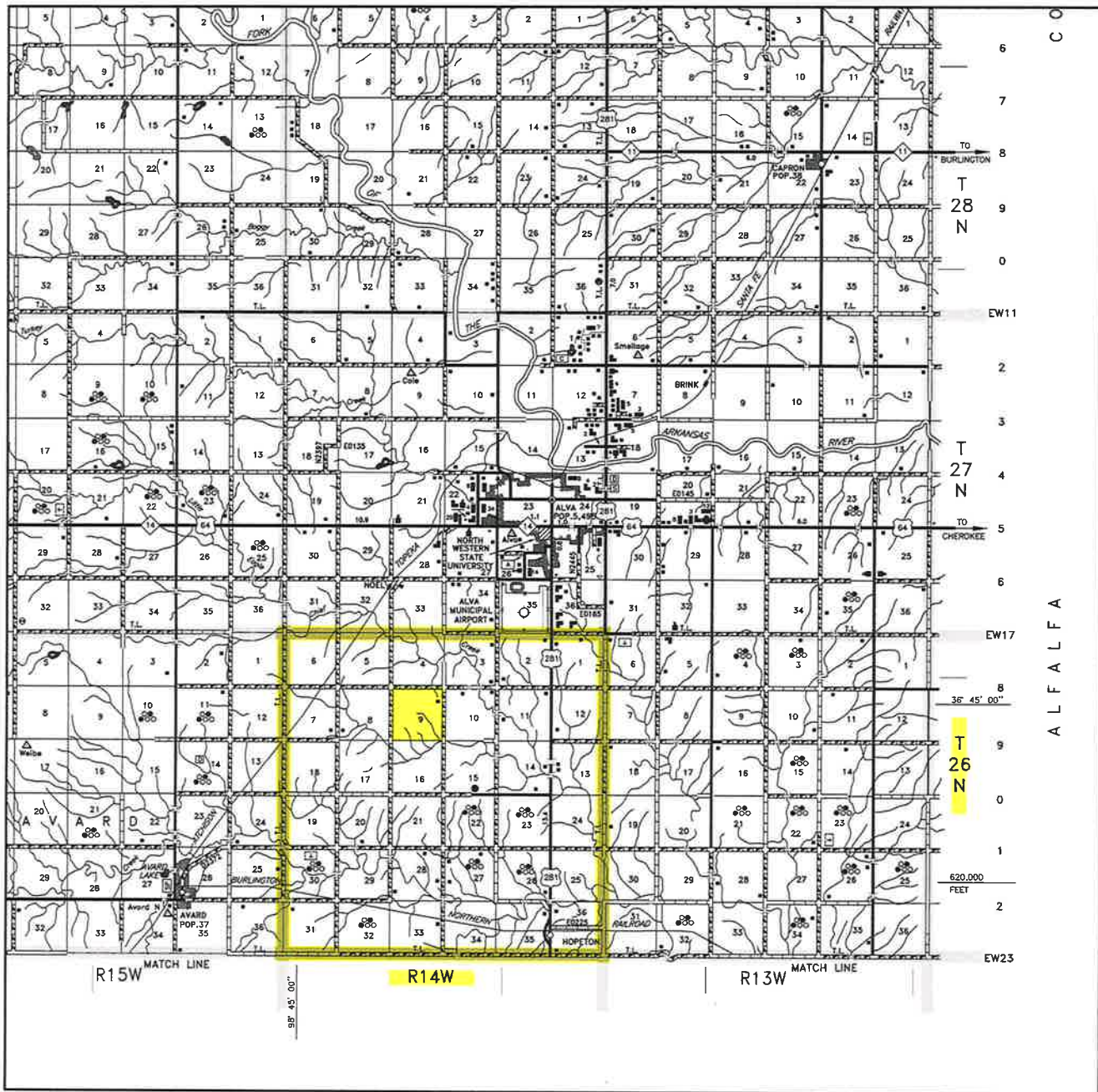
# TOPOGRAPHIC LAND SURVEYORS OF OKLAHOMA

*Surveying and Mapping for the Energy Industry*

13800 Wireless Way, Oklahoma City, OK 73134 [www.topographic.com](http://www.topographic.com)

Telephone Numbers: Local (405) 843-4847 Toll Free (800) 654-3219

## VICINITY MAP



Scale: 1" = 3 Miles

Sec. 9 Twp. 26N Rng. 14W I.M.

County WOODS State OK

Operator MIDSTATES PETROLEUM COMPANY, LLC

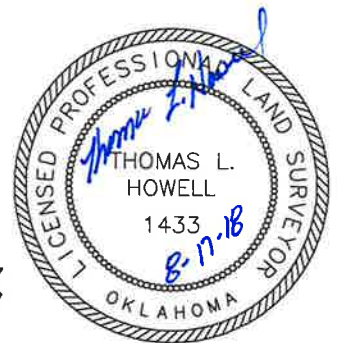


LAND SURVEYORS OF OKLAHOMA

(A) ERMA LEE 2614 1-9-4XH  
NAD-27  
410' FSL-225' FWL  
ELEV: 1460' (PAD)  
X= 1789310  
Y= 634459  
LAT: 36.740779653° N  
LONG: 98.719021357° W

The survey map shows a rectangular pad area measuring 4.22 acres. The pad is bounded by a 490' edge of berm on the top and bottom, and a 375' edge of berm on the left and right. The pad is divided into four quadrants by a 188' x 303' area, with a point (A) at the center. The pad is adjacent to a county road on the left, which is 375' wide. A lease road, 0.03 acres in size, is located between the pad and the county road. The map includes elevations at various points: 1462' at the top left corner, 1461' at the top right corner, 1458' at the bottom left corner, 1459' at the bottom right corner, 1459' at the bottom left corner of the pad, and 1456' at the bottom right corner of the pad. A north arrow and a scale bar (0' to 100') are provided. The map is signed by a Professional Land Surveyor, with the signature 'James J. Hall' visible.

PLAT SHOWING  
PROPOSED PAD & LEASE ROAD AREA  
IN THE SW/4 OF SECTION 9, T26N-R14W,  
WOODS COUNTY, OKLAHOMA



				This plat was prepared exclusively for		SCALE: 1" = 100'	
				<b>MIDSTATES PETROLEUM COMPANY, LLC</b>		DATE: 07-27-2018	
NO.	REVISION	DATE	BY	and may not be relied upon by any other entity without the written consent of Topographic Land Surveyors of Oklahoma.		FILE: L4135A.DWG	
SURV. BY: DJ 07-25-2015				<i>SURVEYING AND MAPPING BY</i> <b>TOPOGRAPHIC LAND SURVEYORS OF OKLAHOMA</b> <i>13800 Wireless Way, Okla. City, OK. 73134 (405) 843-4847</i> <i>Certificate of Authorization No. 1293</i>		DRAWING NUMBER:	
DRAWN BY: JP						113122-L4-135-A	
APPROVED BY: TH						SHEET 1 OF 1	