

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

API NUMBER: 003 23316

Approval Date: 05/11/2018

Expiration Date: 11/11/2018

Horizontal Hole Oil & Gas

PERMIT TO DRILL

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

County: ALFALFA

SPOT LOCATION:

FEET FROM QUARTER: FROM NORTH FROM WEST

SECTION LINES: 156 610

Lease Name: LOIS 2512

Well No: 2 36-25XH

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 74103-3322

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	6000	6	
2		7	
3		8	
4		9	
5		10	

Spacing Orders: 601248

Location Exception Orders:

Increased Density Orders:

Pending CD Numbers: 201802964
201802965
201802966
201802967
201802968
201802969
201802615

Special Orders:

Total Depth: 16620 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

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

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 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

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: NW NE NW NE

Feet From: NORTH 1/4 Section Line: 165

Feet From: EAST 1/4 Section Line: 1919

Depth of Deviation: 5625

Radius of Turn: 869

Direction: 15

Total Length: 9630

Measured Total Depth: 16620

True Vertical Depth: 6254

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

Notes:

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 23316 LOIS 2512 2 36-25XH

Category	Description
HYDRAULIC FRACTURING	<p>4/18/2018 - G71 - OCC 165:10-3-10 REQUIRES:</p> <p>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;</p> <p>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,</p> <p>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</p>
MEMO	<p>4/18/2018 - G71 - PITS 1 & 2 - CLOSED SYSTEM=STEEL PITS PER OPERATOR REQUEST, PIT 2 - OBM RETURNED TO VENDOR, CUTTINGS PERMITTED PER DISTRICT</p>
PENDING CD - 201802615	<p>4/23/2018 - G58 - (640)(HOR) 36-25N-12W VAC 105348 MNNG EXT 601248 MSSP COMPL. INT. NLT 660' FB (COEXIST SP. ORDER 192790 MISS) REC 5/1/2018 (JOHNSON)</p>
PENDING CD - 201802964	<p>4/23/2018 - G58 - (I.O.) 25-25N-12W X165:10-3-28(C)(2)(B) MSSP (LOIS 2512 2 36-25XH) NO CLOSER THAN 200 FEET FROM THE KOST 1-25 WELL REC 5/1/2018 (JOHNSON)</p>
PENDING CD - 201802965	<p>4/23/2018 - G58 - (I.O.) 36-25N-12W X165:10-3-28(C)(2)(B) MSSP (LOIS 2512 2 36-25XH) NO CLOSER THAN 200 FEET FROM THE OK E 1-36 WELL REC 5/1/2018 (JOHNSON)</p>
PENDING CD - 201802966	<p>4/23/2018 - G58 - 25-25N-12W X601248 MSSP 1 WELL NO OP. NAMED REC 5/1/2018 (JOHNSON)</p>
PENDING CD - 201802967	<p>4/23/2018 - G58 - 36-25N-12W X201802615 MSSP 1 WELL NO OP. NAMED REC 5/1/2018 (JOHNSON)</p>
PENDING CD - 201802968	<p>4/23/2018 - G58 - (I.O.) 25 & 36-25N-12W EST MULTIUNIT HORIZONTAL WELL X601248 MSSP (25-25N-12W) X201802615 MSSP (36-25N-12W) 53% 25-25N-12W 47% 36-25N-12W NO OP. NAMED REC 5/1/2018 (JOHNSON)</p>
PENDING CD - 201802969	<p>4/23/2018 - G58 - (I.O.) 25 & 36-25N-12W X601248 MSSP (25-25N-12W) X201802615 MSSP (36-25N-12W) COMPL. INT. (25-25N-12W) NCT 165' FNL, NCT 0' FSL, NCT 990' FEL COMPL. INT. (36-25N-12W) NCT 0' FNL, NCT 165' FSL, NCT 990' FEL NO OP. NAMED REC 5/1/2018 (JOHNSON)</p>
SPACING - 601248	<p>4/23/2018 - G58 - (640)(HOR) 25-25N-12W EST MSSP COMPL. INT. NCT 660' FB (SUPERSEDE NON-PRODUCING, NON-HORIZONTAL SPACING UNITS; COEXIST WITH PRODUCING, NON-HORIZONTAL SPACING UNITS)</p>

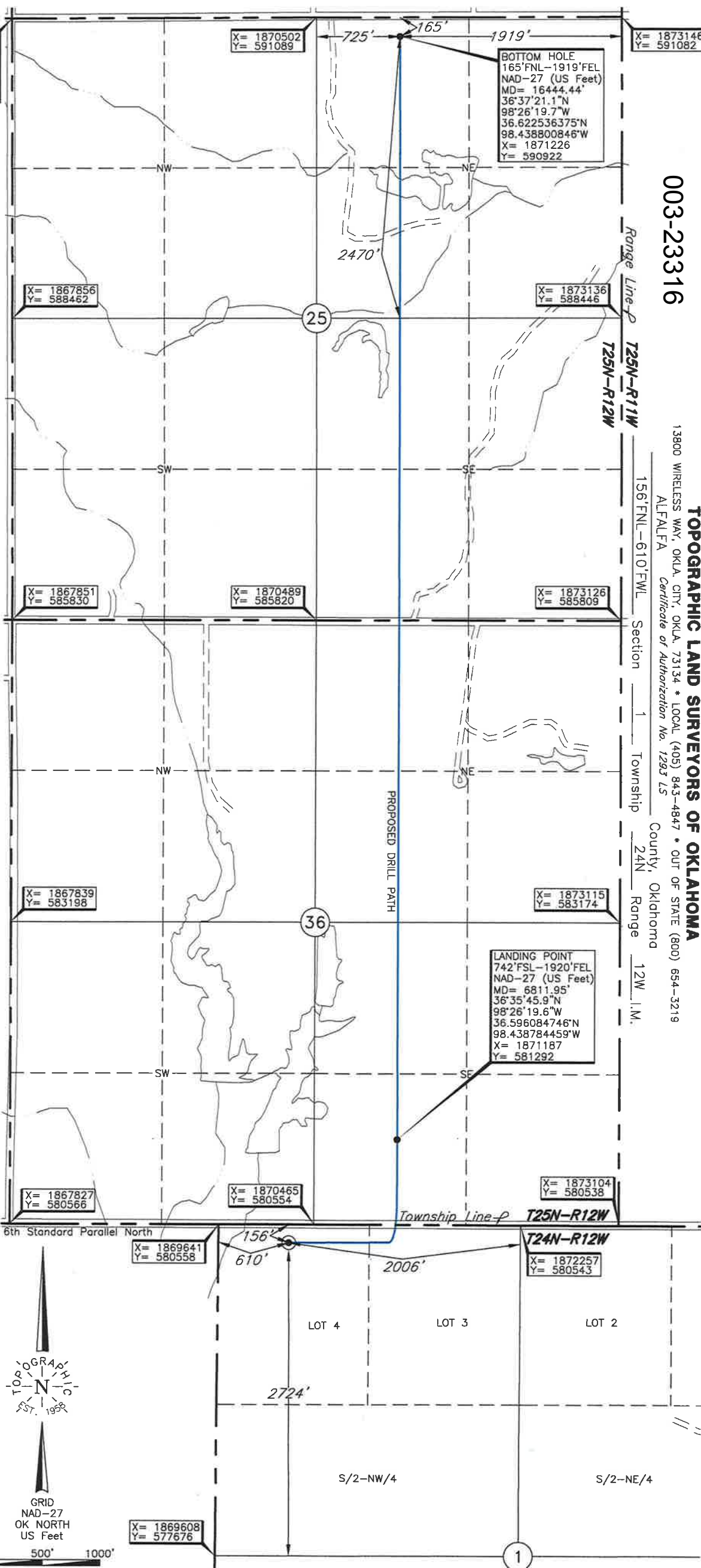
This permit does not address the right of entry or settlement of surface damages.

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.

003-23316

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
Range Line ϕ 125N-R11W Township 24N Range 12W 1.M.



BOTTOM HOLE
165'FNL-1919'FEL
NAD-27 (US Feet)
MD= 16444.44'
36°37'21.1"N
98°26'19.7"W
36.622536375°N
98.438800846°W
X= 1871226
Y= 590922

LANDING POINT
742'FSL-1920'FEL
NAD-27 (US Feet)
MD= 6811.95'
36°35'45.9"N
98°26'19.6"W
36.596084746°N
98.438784459°W
X= 1871187
Y= 581292

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

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

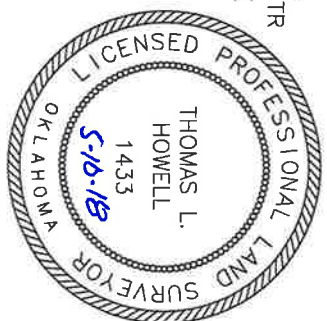
ELEVATION:
1357' Gr. at Level Pad

Operator: MIDSTATES PETROLEUM COMPANY, LLC
Lease Name: LOIS 2512
Topography & Vegetation Loc. fell on 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 Carmen, OK, go North \pm 1 miles, then East \pm 1 mile to the NW Cor. of Sec. 1-T24N-R12W.

DATUM: NAD-27
LAT: 36°35'37.0"N
LONG: 98°26'31.1"W
LAT: 36.593619700°N
LONG: 98.441966031°W
STATE PLANE
COORDINATES: (US Feet)
ZONE: OK NORTH
X: 1870249
Y: 580399

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

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.
Invoice # 293984 Date of Drawing: May 10, 2018
Date Staked: Mar. 13, 2018
TR



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

X= 1873146
Y= 591082

Range Line P
T25N-R11W
T25N-R12W

X= 1873136
Y= 588446

BOTTOM HOLE
165'FNL - 1919'FEL
NAD-27 (US Feet)
MD= 16444.44'
36°37'21.1"N
98°26'19.7"W
36.622536375°N
98.438800846°W
X= 1871226
Y= 590922

X= 1870502
Y= 591089

X= 1867856
Y= 588462

X= 1867861
Y= 591094

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

Operator: MIDSTATES PETROLEUM COMPANY, LLC

Lease Name: LOIS 2512

Topography & Vegetation Loc. fell on 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 Carmen, OK, go North ±1 miles, then East ±1 mile to the NW Cor. of Sec. 1-T24N-R12W.

156'FNL - 610'FWL Section 1 Township 24N Range 12W 1.M.

X= 1873126
Y= 588809

X= 1870489
Y= 585820

X= 1867851
Y= 585830

ELEVATION:
1357' Gr. at Level Pad

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

DATUM: NAD-27
LAT: 36°35'37.0"N
LONG: 98°26'31.1"W
LAT: 36.593619700°N
LONG: 98.441966031°W
STATE PLANE
COORDINATES: (US Feet)
ZONE: OK NORTH
X: 1870249
Y: 580399

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

X= 1873115
Y= 583174

LANDING POINT
742'FSL - 1920'FEL
NAD-27 (US Feet)
MD= 6811.95'
36°35'45.9"N
98°26'19.6"W
36.596084746°N
98.438784459°W
X= 1871187
Y= 581292

X= 1867839
Y= 583198

X= 1867839
Y= 583198

X= 1873104
Y= 580538

X= 1870455
Y= 580554

X= 1867827
Y= 580566

X= 1869641
Y= 580558

X= 1872257
Y= 580543

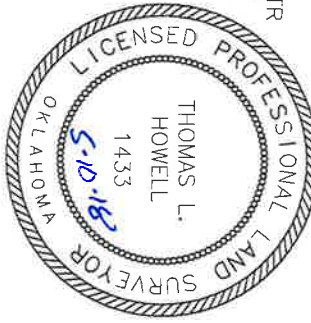
X= 1869608
Y= 577676



GRID
NAD-27
OK NORTH
US Feet
0' 500' 1000'

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.

Thomas L. Howell
Oklahoma Lic. No. 1433



Invoice # 293984 Date of Drawing: May 10, 2018
Date Staked: Mar. 13, 2018 TR

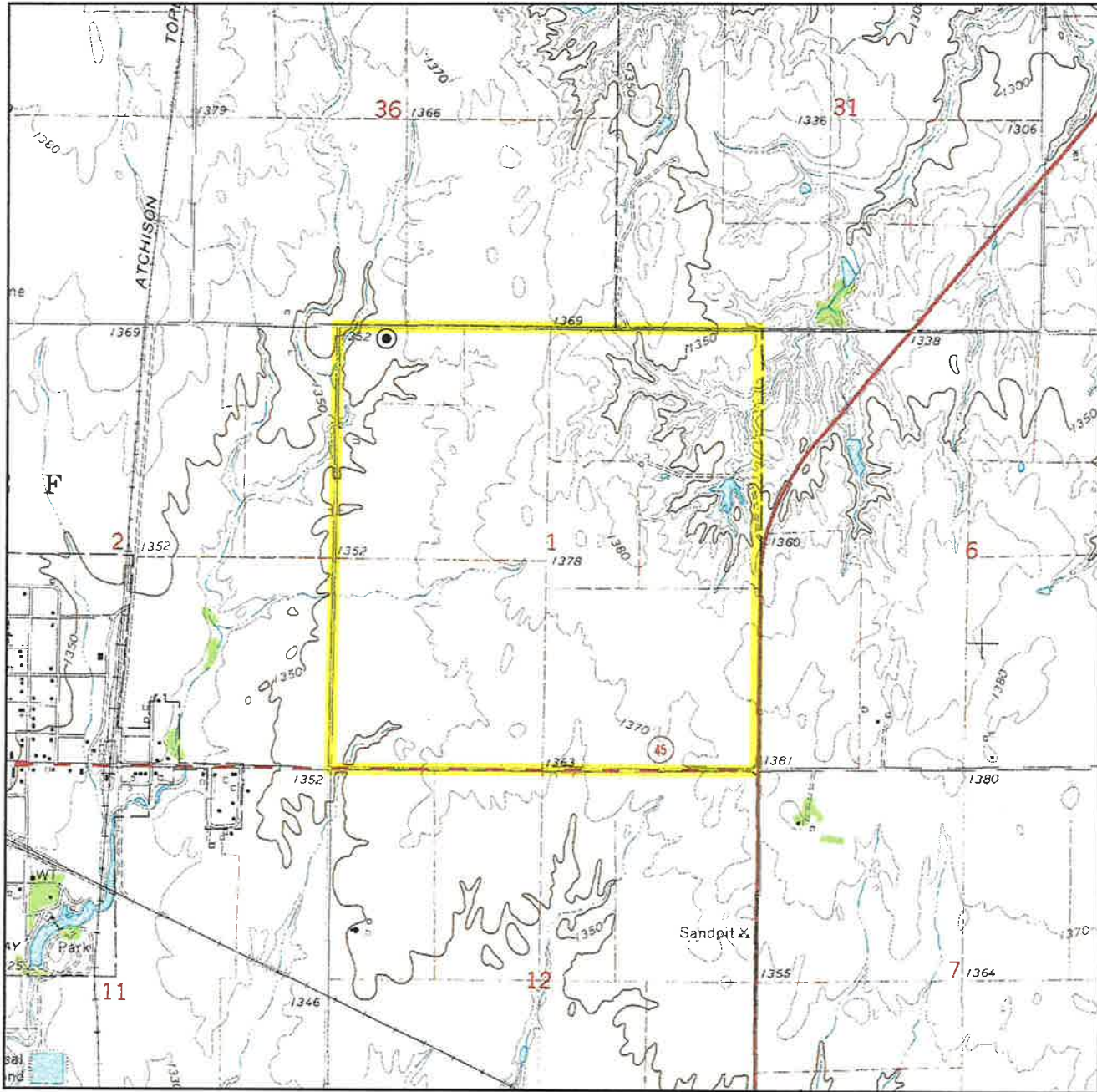
TOPOGRAPHIC LAND SURVEYORS OF OKLAHOMA

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. 1 Twp. 24N Rng. 12W IM

County ALFALFA State OK

Operator MIDSTATES PETROLEUM COMPANY, LLC

Description 156'FNL-610'FWL

Lease LOIS 2512 36-25XH 2

Elevation 1357' Gr. at Level Pad

U.S.G.S. Topographic
Quadrangle Map CARMEN, 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.



TOPOGRAPHIC
LOYALTY INNOVATION LEGACY

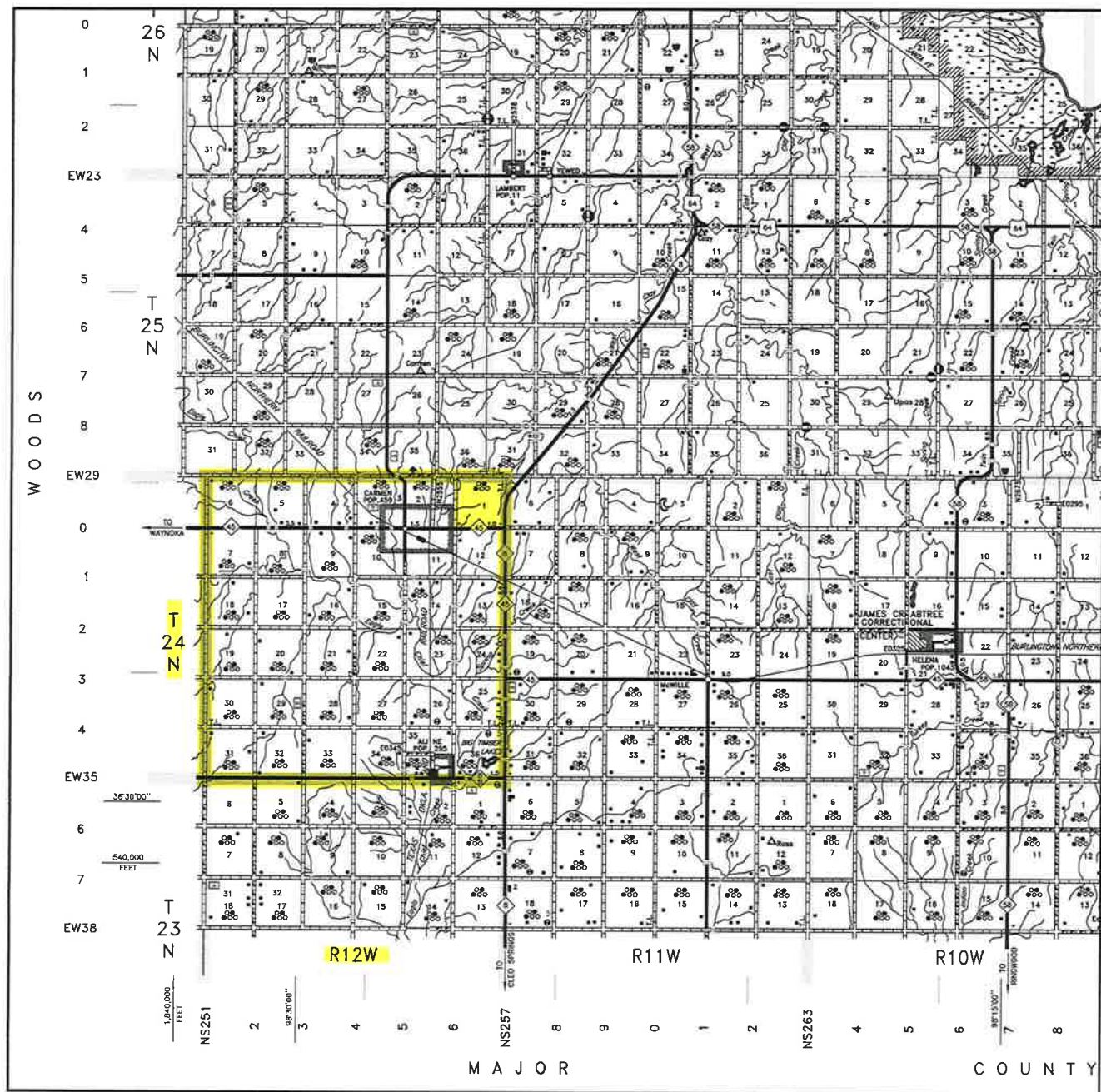
LAND SURVEYORS OF OKLAHOMA

Mar. 13, 2018

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

VICINITY MAP



Scale: 1" = 3 Miles

Sec. 1 Twp. 24N Rng. 12W IM

County ALFALFA State OK

Operator MIDSTATES PETROLEUM COMPANY, LLC



LAND SURVEYORS OF OKLAHOMA