

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

API NUMBER: 039 22475 A

Approval Date: 09/18/2019
Expiration Date: 03/18/2021

Horizontal Hole Oil & Gas

PERMIT TO DEEPEN

WELL LOCATION: Sec: 01 Twp: 14N Rge: 18W County: CUSTER
SPOT LOCATION: ☐ NE ☐ NE ☐ NW ☐ NW FEET FROM QUARTER: FROM NORTH FROM WEST
SECTION LINES: 300 1150

Lease Name: HATCHER ESTATES Well No: 1-1HCG Well will be 300 feet from nearest unit or lease boundary.
Operator Name: ARNOLD OIL PROPERTIES LLC Telephone: 4058421488 OTC/OCC Number: 22061 0

ARNOLD OIL PROPERTIES LLC
6816 N ROBINSON AVE
OKLAHOMA CITY, OK 73116-9039

KATE HATCHER ESTATE TRUST
1638 VANESSA DRIVE
CLINTON OK 73601

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

	Name	Depth	Name	Depth
1	COTTAGE GROVE	8877	6	
2			7	
3			8	
4			9	
5			10	

Spacing Orders: 134350 Location Exception Orders: Increased Density Orders:
Pending CD Numbers: 201904237 Special Orders:

Total Depth: 13700 Ground Elevation: 1684 Surface Casing: 1945 IP 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: 8000 Average: 5000

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 located in a Hydrologically Sensitive Area.

Category of Pit: C

Liner not required for Category: C

Pit Location is BED AQUIFER

Pit Location Formation: RUSH SPRINGS

D. One time land application -- (REQUIRES PERMIT) PERMIT NO: 19-36914
H. CLOSED SYSTEM=STEEL PITS (REQUIRED - EAST BARNITZ CREEK)

This permit does not address the right of entry or settlement of surface damages.
The duration of this permit is 18 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 36 Twp 15N Rge 18W County CUSTER

Spot Location of End Point: C NE NW NW

Feet From: NORTH 1/4 Section Line: 330

Feet From: WEST 1/4 Section Line: 990

Depth of Deviation: 8250

Radius of Turn: 539

Direction: 360

Total Length: 4604

Measured Total Depth: 13700

True Vertical Depth: 8877

End Point Location from Lease,
Unit, or Property Line: 330

Notes:

Category

Description

DEEP SURFACE CASING

11/2/2015 - G71 - APPROVED; NOTIFY OCC FIELD STAFF IMMEDIATELY OF ANY LOSS OF CIRCULATION OR FAILURE TO CIRCULATE CEMENT TO SURFACE ON ANY CONDUCTOR OR SURFACE CASING

HYDRAULIC FRACTURING

11/2/2015 - 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/](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.

PENDING CD - 201904237

9/13/2019 - GC2 - (I.O.) 36-15N-18W
X134350 CGGV
COMPL. INT. NCT 330' FNL, NCT 330' FSL, NCT 900' FWL
NO OP NAMED
REC. 9-16-2019 (P. PORTER) PER ATTORNEY FOR OPERATOR

SPACING - 134350

9/13/2019 - GC2 - (640) 36-15N-18W
EXT 105053 CGGV, OTHERS

WATERSHED STRUCTURE

9/13/2019 - GC2 - WELL WITHIN 1/2 MILE OF AN OKLAHOMA CONSERVATION COMMISSION WATERSHED STRUCTURE. CONTACT THE LOCAL CONSERVATION DISTRICT OFFICE AT (580) 323-4875 PRIOR TO DRILLING

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

The duration of this permit is 18 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.

039 22475 HATCHER ESTATES 1-1HCG

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

CUSTER

County, Oklahoma

300'FNL - 1150'FWL Section 1 Township 14N Range 18W I.M.

API: 039-22475A



Bottom Hole, Landing Point, and Drill Path information provided by operator listed, NOT Surveyed.



Distances shown in (parentheses) are calculated based upon the Quarter Section being 2640 feet, those shown in brackets are based on GSD (General Land Office) distances and have NOT been measured on the ground.

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

Operator: ARNOLD OIL PROPERTIES, LLC

Lease Name: HATCHER ESTATES

Well No.: 1-1HCG

ELEVATION:

1684' Gr. at level pad

Topography & Vegetation Loc. fell on level pad under construction

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 Jct. St. Hwy. 47 & US. Hwy. 183, go ±3.0 mi. South on US. Hwy. 183, then ±5.5 mi. West, then ±1.0 mi. North, then ±0.5 mi. West to the NW Cor. of Sec. 1-T14N-R18W

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

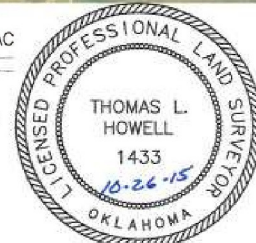
DATUM: NAD-27
LAT: 35°43'28.4"N
LONG: 99°04'15.9"W
LAT: 35.724554988° N
LONG: 99.071074543° W
STATE PLANE
COORDINATES: (US Feet)
ZONE: OK NORTH
X: 1682073
Y: 265498

Date of Drawing: Oct. 26, 2015
Invoice # 251058 Date Staked: Oct. 23, 2015

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



CUSTER County, Oklahoma
300'FNL - 1150'FWL Section 1 Township 14N Range 18W I.M.



Bottom Hole, Landing Point, and Drill Path information provided by operator listed, NOT Surveyed.

Distances shown in (parentheses) are calculated based upon the Quarter Section being 2640 feet, those shown in parentheses and those NOT been measured on the ground.

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

Operator: ARNOLD OIL PROPERTIES, LLC

Lease Name: HATCHER ESTATES

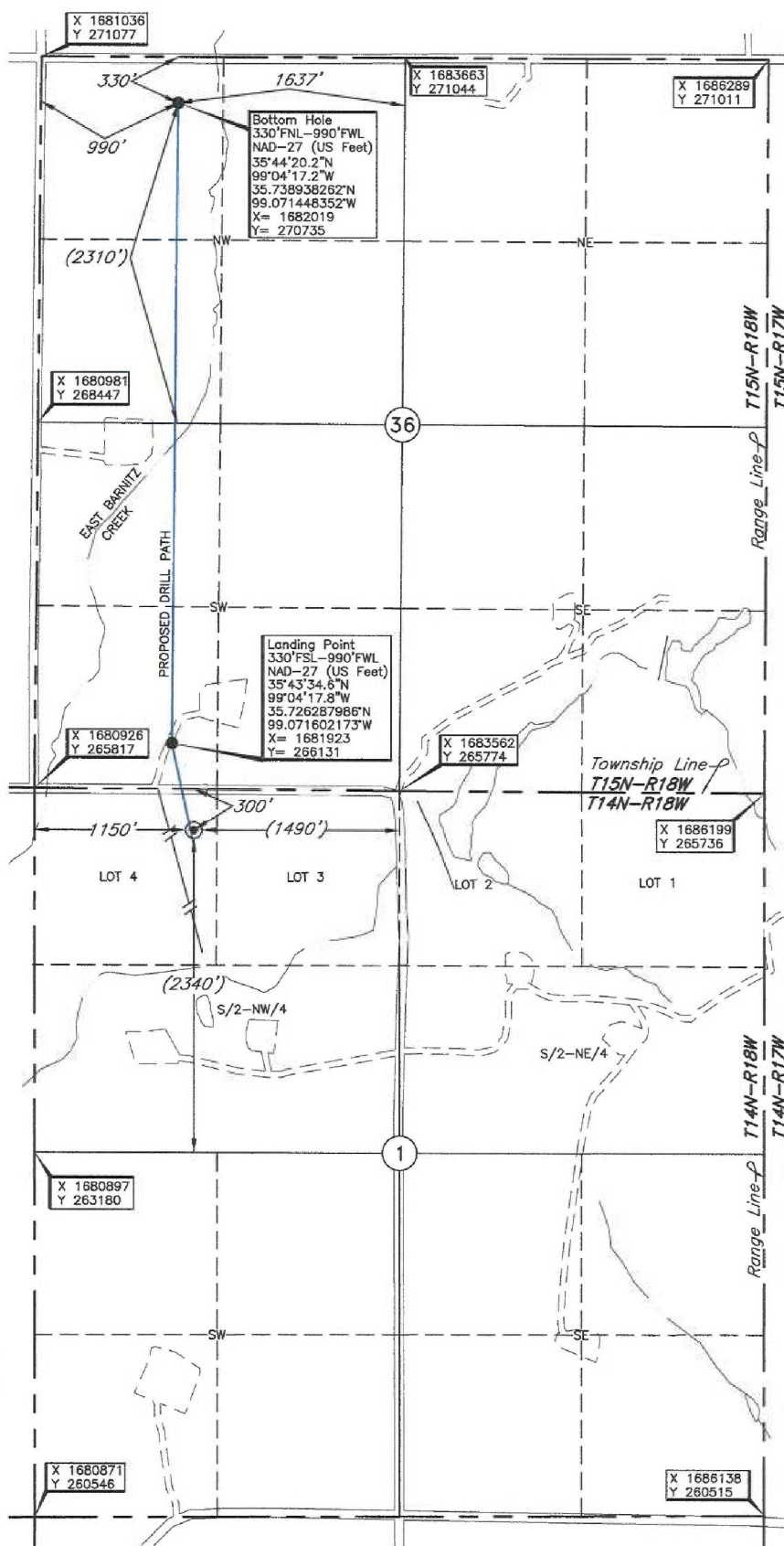
Well No.: 1-1HCG

ELEVATION:
1684' Gr. at level pad

Topography & Vegetation Loc. fell on level pad under construction

Good Drill Site? Yes Reference Stakes or Alternate Location Stakes Set None

Best Accessibility to Location From North of county road
Distance & Direction from Hwy Jct or Town From Jct. St. Hwy. 47 & US. Hwy. 183, go ±3.0 mi. South on US. Hwy. 183, then ±5.5 mi. West, then ±1.0 mi. North, then ±0.5 mi. West to the NW Cor. of Sec. 1-T14N-R18W



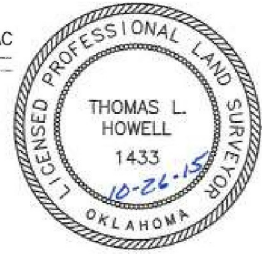
Date of Drawing: Oct. 26, 2015

Invoice # 251058 Date Staked: Oct. 23, 2015

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



DATUM: NAD-27
LAT: 35°43'28.4"N
LONG: 99°04'15.9"W
LAT: 35.724554988° N
LONG: 99.071074543° W
STATE PLANE
COORDINATES: (US Feet)
ZONE: OK NORTH
X: 1682073
Y: 265498

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

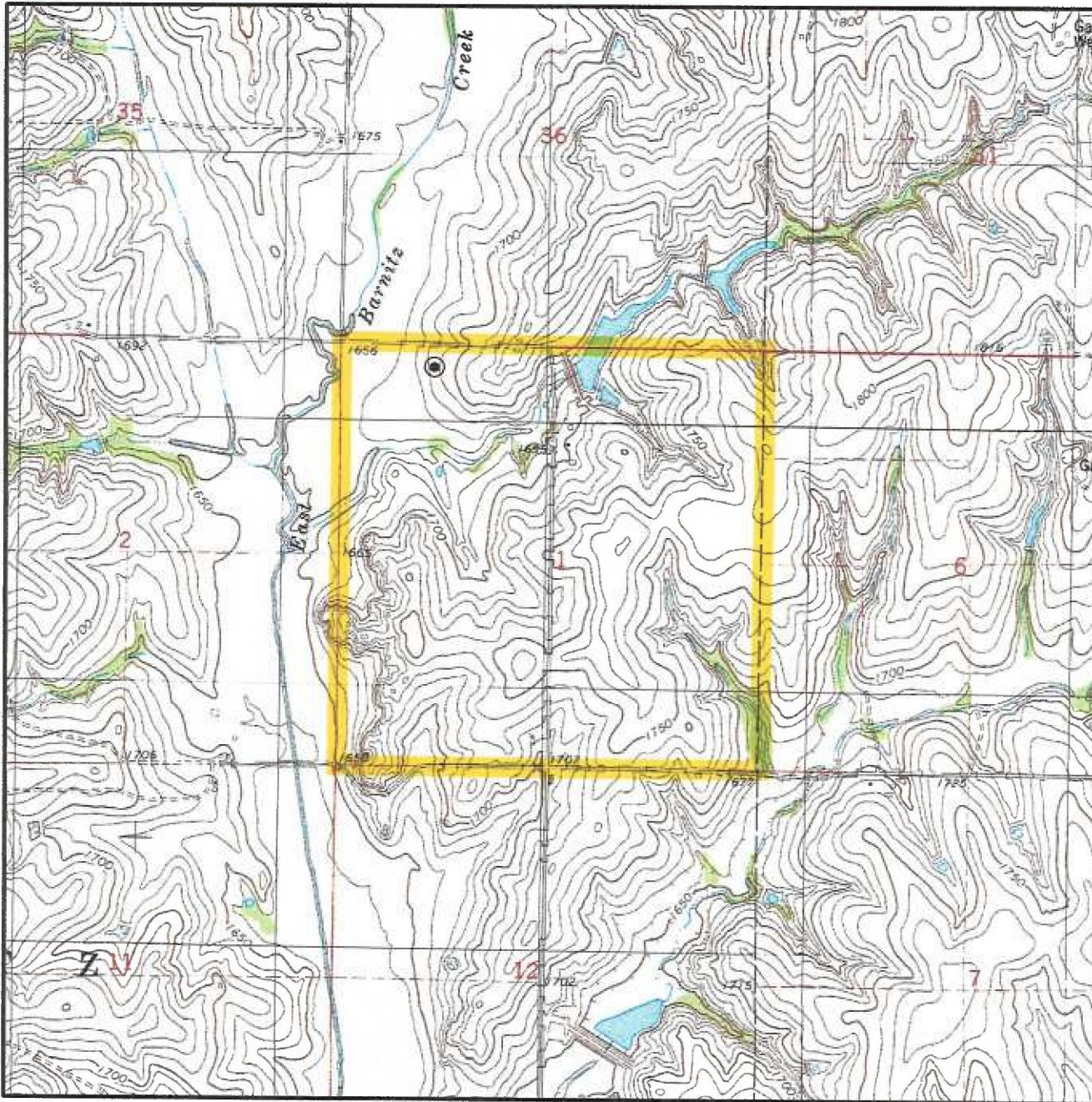
TOPOGRAPHIC LAND SURVEYORS OF OKLAHOMA

Surveying and Mapping for the Energy Industry

6709 North Classen Blvd. Oklahoma City, OK 73116 www.topographic.com

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

LOCATION & ELEVATION VERIFICATION MAP



Sec. 1 Twp. 14N Rng. 18W I.M.

County CUSTER State OK

Operator ARNOLD OIL PROPERTIES, LLC

Description 300'FNL - 1150'FWL

Lease HATCHER ESTATES 1-1HCG

Elevation 1684' Gr. at level pad

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

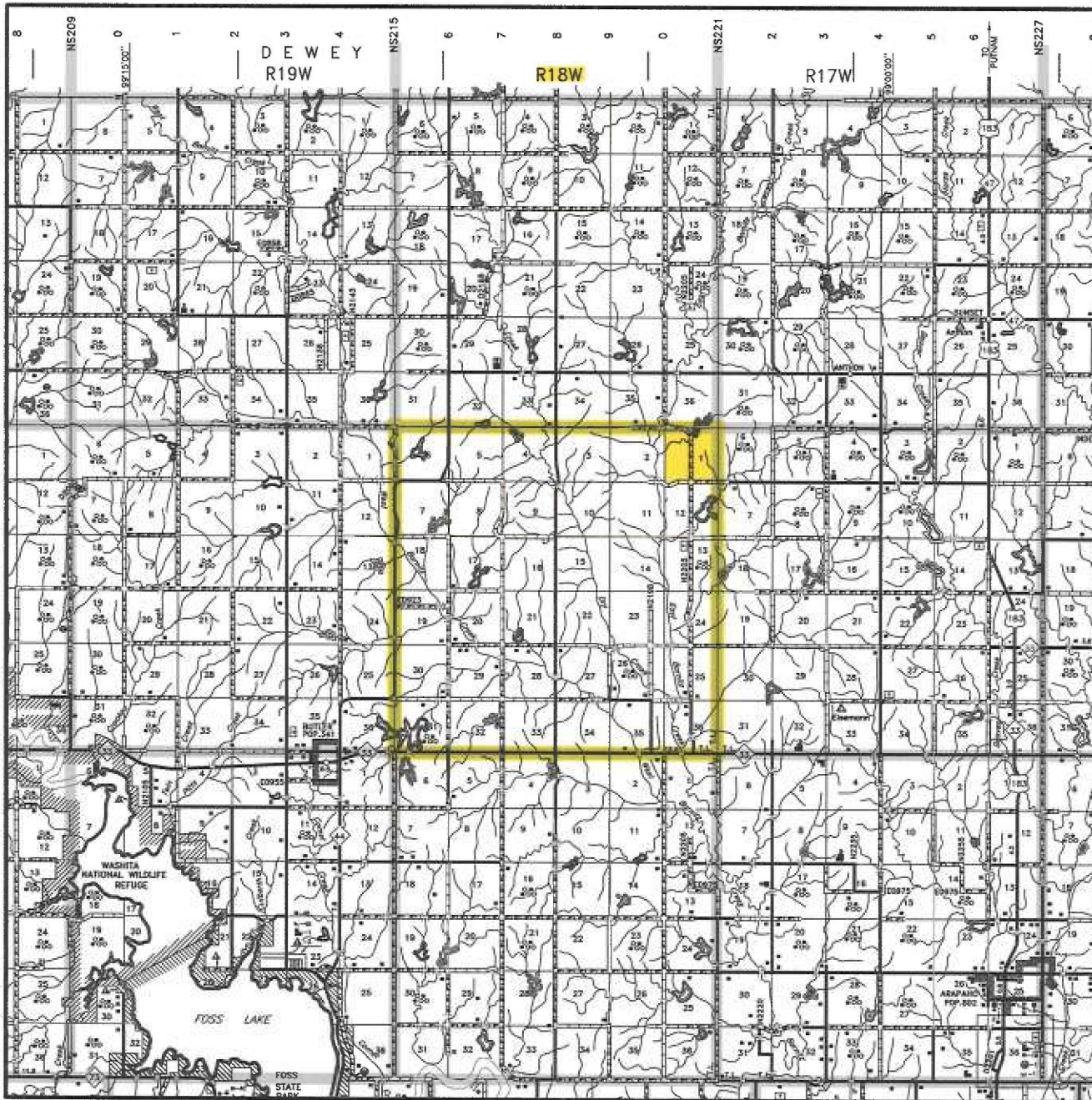
LAND SURVEYORS OF OKLAHOMA

Oct. 23, 2015

TOPOGRAPHIC LAND SURVEYORS OF OKLAHOMA

Surveying and Mapping for the Energy Industry
6709 North Classen Blvd. Oklahoma City, OK 73116 www.topographic.com
Telephone Numbers: Local (405) 843-4847 Toll Free (800) 654-3219

VICINITY MAP



Scale: 1" = 3 Miles

Sec. 1 Twp. 14N Rng. 18W I.M.

County CUSTER State OK

Operator ARNOLD OIL PROPERTIES, LLC



TOPOGRAPHIC
LOYALTY INNOVATION LEGACY

LAND SURVEYORS OF OKLAHOMA