

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

API NUMBER: 093 25193

Approval Date: 01/17/2019

Expiration Date: 07/17/2020

Horizontal Hole Oil & Gas

PERMIT TO DRILL

WELL LOCATION: Sec: 07 Twp: 20N Rge: 16W County: MAJOR

SPOT LOCATION: ☐ NW ☐ NW ☐ NE ☐ NE FEET FROM QUARTER: FROM NORTH FROM EAST

SECTION LINES: 225 1050

Lease Name: FOSTER 2016 Well No: 1-6H Well will be 225 feet from nearest unit or lease boundary.

Operator SANDRIDGE EXPLORATION & PRODUCTION LLC
Name:

Telephone: 4054295610

OTC/OCC Number: 22281 0

SANDRIDGE EXPLORATION & PRODUCTION LLC
123 ROBERT S KERR AVE STE 1702
OKLAHOMA CITY, OK 73102-6406

LEROY F. STOTTS
65683 N 2080 RD
SEILING OK 73663

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

Name	Depth	Name	Depth
1 MISSISSIPPIAN(MERAMEC-OSAGE)	9100	6	
2		7	
3		8	
4		9	
5		10	

Spacing Orders: 80607

Location Exception Orders:

Increased Density Orders:

Pending CD Numbers: 201810288
201810286

Special Orders:

Total Depth: 14726

Ground Elevation: 1755

Surface Casing: 920

Depth to base of Treatable Water-Bearing FM: 670

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: 10000 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 AP/TE DEPOSIT

Pit Location Formation: TERRACE

D. One time land application -- (REQUIRES PERMIT)

PERMIT NO: 19-36070

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 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 located in a Hydrologically Sensitive Area.

Category of Pit: C

Liner not required for Category: C

Pit Location is AP/TE DEPOSIT

Pit Location Formation: TERRACE

HORIZONTAL HOLE 1

Sec 06 Twp 20N Rge 16W County MAJOR

Spot Location of End Point: NW NW NE NE

Feet From: NORTH 1/4 Section Line: 150

Feet From: EAST 1/4 Section Line: 1200

Depth of Deviation: 8420

Radius of Turn: 704

Direction: 358

Total Length: 5200

Measured Total Depth: 14726

True Vertical Depth: 9100

End Point Location from Lease,
Unit, or Property Line: 150

Notes:

Category

Description

HYDRAULIC FRACTURING

1/7/2019 - 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

INTERMEDIATE CASING

1/7/2019 - G71 - DUE TO THE KNOWN POTENTIAL RISK OF ENCOUNTERING AN OVER-PRESSURED ZONE IN THE MORROW SERIES IN THIS AREA, THE TECHNICAL MANAGER RECOMMENDS SETTING AN INTERMEDIATE STRING OF CASING IMMEDIATELY ABOVE THE MORROW SERIES

MEMO

1/7/2019 - G71 - PITS 1 & 2 - CLOSED SYSTEM=STEEL PITS PER OPERATOR REQUEST, PIT 2 - OBM RETURNED TO VENDOR, CUTTINGS PERMITTED PER DISTRICT

PENDING CD - 201810286

1/16/2019 - GB1 - 6-20N-16W
X80607 MNMCO
1 WELL
NO OP. NAMED
REC. 1/7/2019 (MILLER)

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

093 25193 FOSTER 2016 1-6H

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 - 201810288	1/16/2019 - GB1 - (I.O.) 6-20N-16W X80607 MNMCO X165:10-3-28 MNMCO MAY BE CLOSER THAN 600' TO AN EXISTING AND/OR PROPOSED WELLBORE COMPL. INT. NCT 150' FNL, NCT 150' FSL, NCT 1000' FEL NO OP. NAMED REC. 1/7/2019 (MILLER)
SPACING - 80607	1/16/2019 - GB1 - (640) 6-20N-16W EXT OTHERS EXT 76570 MNMCO, OTHERS

BOTTOM HOLE
150'FNL-1200'FEL
NAD-27 (US Feet)
36°14'46.3" N
98°56'32.9" W
36.246195291' N
98.942484481' W
X=1722084
Y=454976

X 1723257
Y 452039

EXISTING WELL
±334' TO PDP

X 1723233
Y 449415

LANDING POINT
400'FSL-1200'FEL
NAD-27 (US Feet)
36°13'55.3" N
98°56'32.9" W
36.232027973' N
98.942475411' W
X=1722037
Y=449819

KICK OFF POINT

WATER WELL

KICK OFF POINT
100'FNL-1200'FEL
NAD-27 (US Feet)
36°13'50.4" N
98°56'32.9" W
36.230654415' N
98.942473915' W
X=1722032
Y=449319

X 1723213
Y 446779

X 1718140
Y 449432

X 1720610
Y 449424

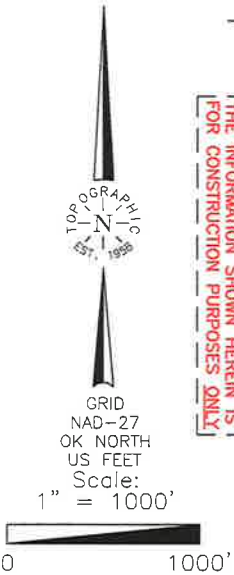
X 1718119
Y 446798

X 1718099
Y 444164

X 1720565
Y 444154

X 1723197
Y 444143

THE INFORMATION SHOWN HEREIN IS
FOR CONSTRUCTION PURPOSES ONLY



Operator: SANDRIDGE EXPLORATION & PRODUCTION, LLC
Lease Name: FOSTER 2016
Topography & Vegetation Loc. fell in sand hills with scattered brush, ±412' NW of water well, ±245' SW of NW-SE pipeline
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 Jet or Town From Chester, OK, go ±1.0 mi. North on US Hwys. 60-281, then ±1.0 mi. West on paved road to the NE Cor. of Sec. 7-T20N-R16W

Well No.: 1-6H

ELEVATION:
1755' Gr. at Stake

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

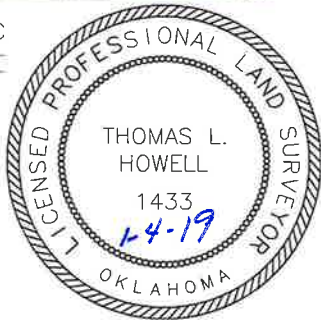
Revision ☒ A Date of Drawing: Jan. 04, 2019

Invoice # 309424 Date Staked: Dec. 20, 2018 AC

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



DATUM: NAD-27
LAT: 36°13'49.1"N
LONG: 98°56'31.1"W
LAT: 36.230313619° N
LONG: 98.941964251° W
STATE PLANE
COORDINATES: (US Feet)
ZONE: OK NORTH
X: 1722181
Y: 449194

TOPOGRAPHIC LAND SURVEYORS OF OKLAHOMA

13800 Wireless Way, Okla. City, OK. 73134 * LOCAL (405) 843-4847 * OUT OF STATE (800) 654-3219
Certificate of Authorization No. 1293 LS

MAJOR

County, Oklahoma

225'FNL - 1050'FEL Section 7 Township 20N Range 16W I.M.
Township Line T21N-R16W 5TH STANDARD PARALLEL NORTH

X 1722123
Y 455126

X 1723285
Y 455108

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150'FNL-1200'FEL
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Y=454976

X 1723257
Y 452039

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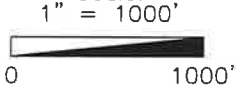
X 1718099
Y 444164

KICK OFF POINT, LANDING POINT, BOTTOM HOLE AND DRILL PATH
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GRID
NAD-27
OK NORTH
US FEET
Scale:
1" = 1000'



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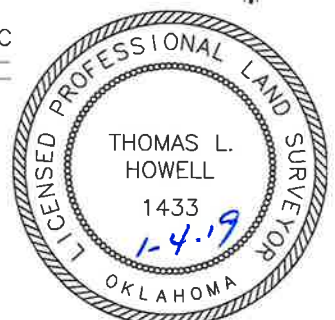
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COORDINATES: (US Feet)
ZONE: OK NORTH
X: 1722181
Y: 449194

This information was gathered with a GPS receiver with a 1" vertical accuracy.

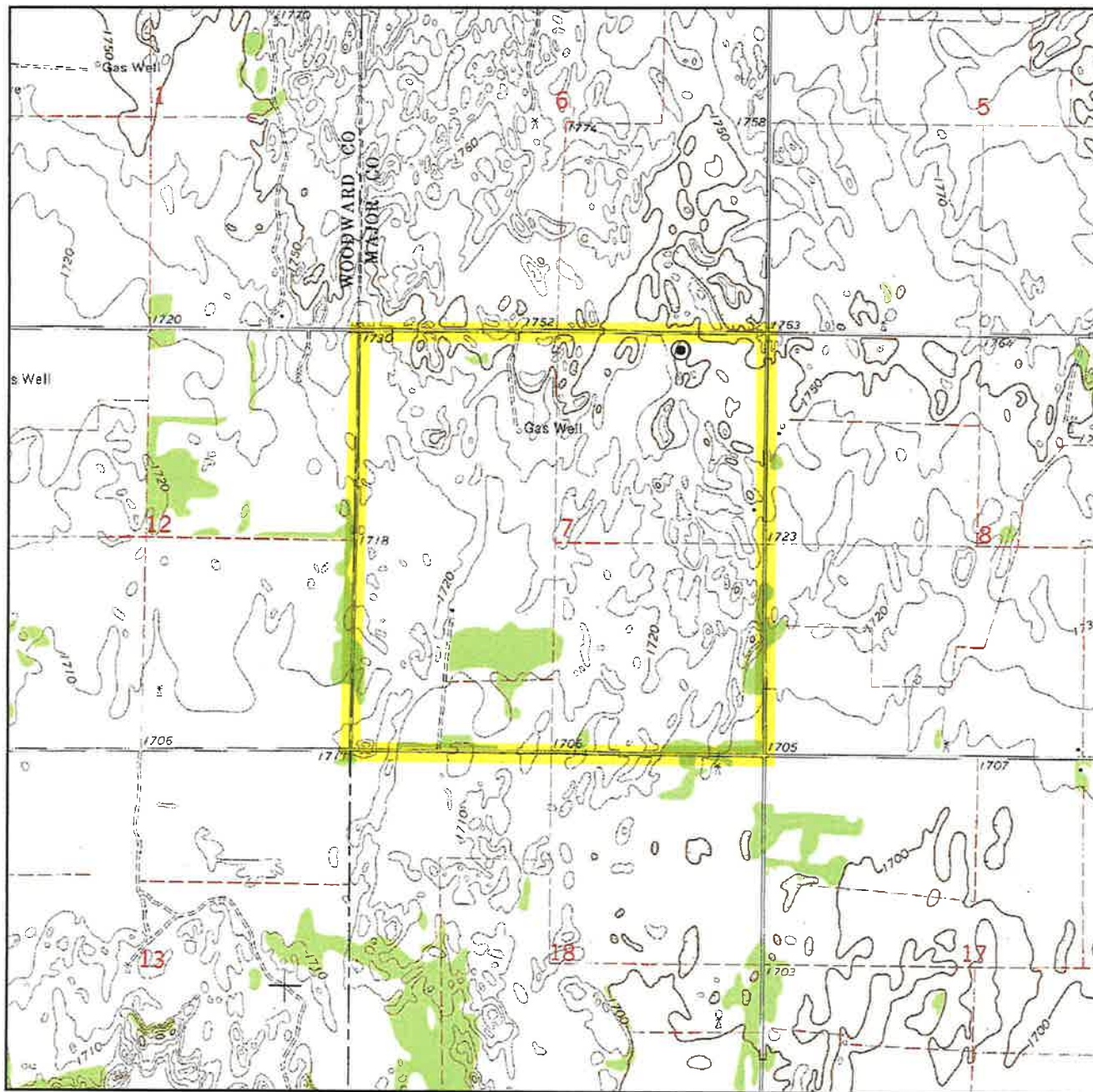
TOPOGRAPHIC LAND SURVEYORS OF OKLAHOMA

Surveying and Mapping for the Energy Industry

13800 Wireless Way, Okla. City, OK. 73134 www.topographic.com

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

LOCATION & ELEVATION VERIFICATION MAP



Sec. 7 Twp. 20N Rng. 16W IM

County MAJOR State OK

Operator SANDRIDGE EXPLORATION & PRODUCTION, LLC

Description 225'FNL - 1050'FEL

Lease FOSTER 2016 1-6H

Elevation 1755' Gr. at Stake

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.



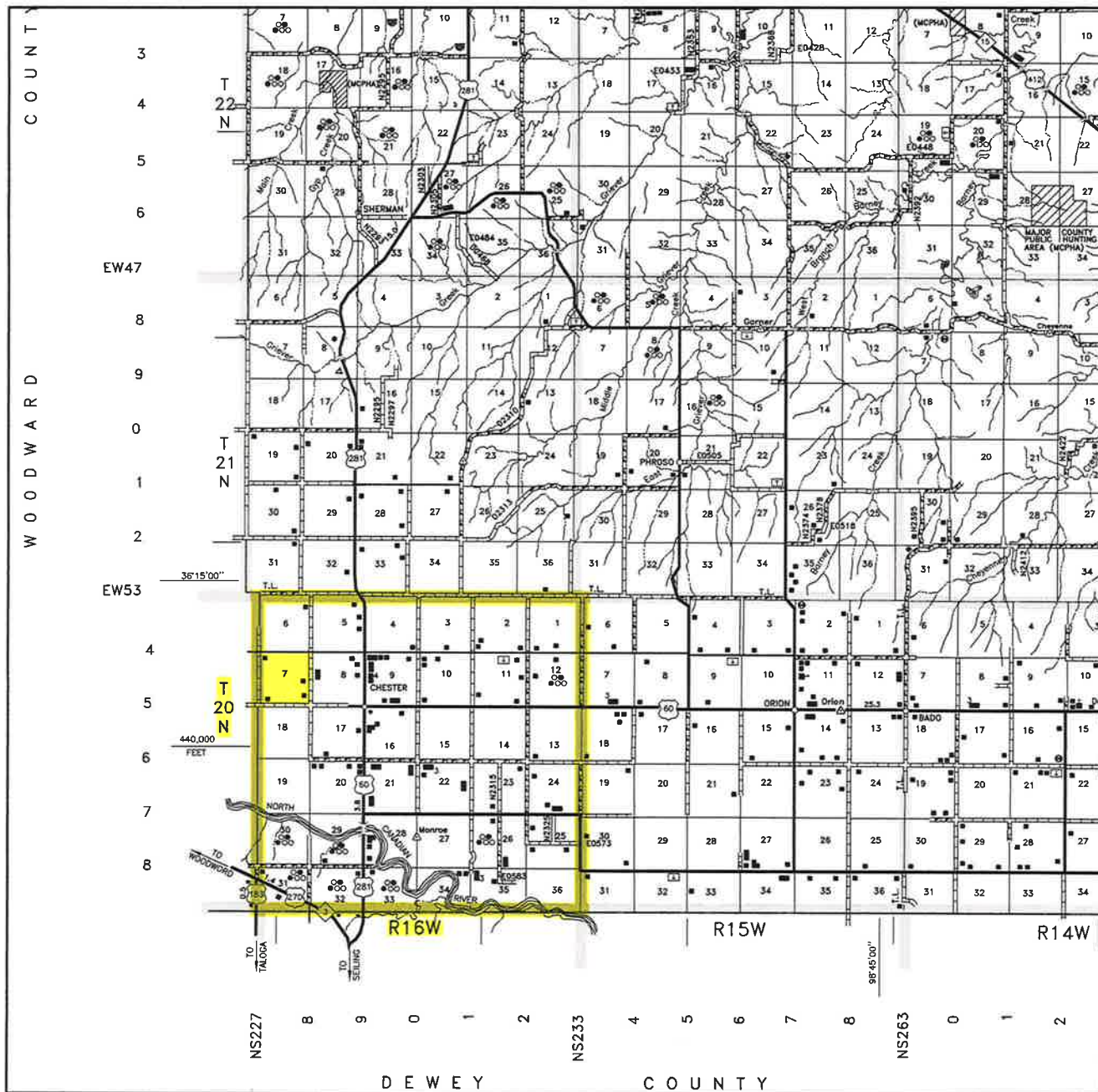
LAND SURVEYORS OF OKLAHOMA

Dec. 20, 2018

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VICINITY MAP



Scale: 1" = 3 Miles

Sec. 7 Twp. 20N Rng. 16W IM

County MAJOR State OK

Operator SANDRIDGE EXPLORATION & PRODUCTION, LLC



LAND SURVEYORS OF OKLAHOMA