API NUMBER: 093 25195

Oil & Gas

Horizontal Hole

Wellhead Protection Area?

Liner not required for Category: C
Pit Location is AP/TE DEPOSIT
Pit Location Formation: TERRACE

Category of Pit: C

is located in a Hydrologically Sensitive Area.

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

Approval Date: 01/28/2019
Expiration Date: 07/28/2020

PERMIT TO DRILL

OF OF ECOATION. INV	County: MAJI FROM QUARTER: FROM ION LINES:  Well No: CTION LLC	NORTH FROM V	VEST 95 Well w 1295610	ill be 240 feet from nearest unit or lease boundary.  OTC/OCC Number: 22281 0
SANDRIDGE EXPLORATION & PRODUCT 123 ROBERT S KERR AVE STE 1702 OKLAHOMA CITY, OK 731	ON LLC 02-6406		3620 S. 126TH S	TTY FAMILY TRUST T. FERTY, TRUSTEE OK 73736
Formation(s) (Permit Valid for Listed Formation  Name  MISSISSIPPIAN  2	ons Only): Depth 8858	6 7	Name	Depth
3 4 5		8 9 10		
Spacing Orders: No Spacing	Location Exception	Orders:		Increased Density Orders:
Pending CD Numbers: 201809094 201900471				Special Orders:
Total Depth: 13353 Ground Elevation: 1675	Surface	Casing: 1500		Depth to base of Treatable Water-Bearing FM: 250
Under Federal Jurisdiction: No	Fresh Wate	r Supply Well Drilled:	No	Surface Water used to Drill: Yes
PIT 1 INFORMATION		Appro	oved Method for disposal o	f Drilling Fluids:
Type of Pit System: CLOSED Closed System Means Steel F Type of Mud System: WATER BASED	Pits	5.0	ne time land application	(REQUIRES PERMIT) PERMIT NO: 18-35924

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. 31 Twp 20N Rge 13W County **BLAINE** Spot Location of End Point: S2 S2 SW SW Feet From: SOUTH 1/4 Section Line: 150 WEST Feet From: 1/4 Section Line: 660

Depth of Deviation: 8200 Radius of Turn: 691 Direction: 182

Total Length: 4067

Measured Total Depth: 13353

True Vertical Depth: 8935

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

 Additional Surface Owner
 Address
 City, State, Zip

 DOYL SHOLTESS
 264878 E. COUNTY ROAD 46
 RINGWOOD, OK 73768

Notes:

Category Description

DEEP SURFACE CASING 12/16/2018 - G71 - APPROVED; NOTIFY OCC FIELD INSPECTOR IMMEDIATELY OF ANY LOSS

OF CIRCULATION OR FAILURE TO CIRCULATE CEMENT TO SURFACE ON ANY CONDUCTOR

OR SURFACE CASING

HYDRAULIC FRACTURING 12/16/2018 - 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

INTERMEDIATE CASING 12/16/2018 - 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 12/16/2018 - G71 - PITS 1 & 2 - CLOSED SYSTEM=STEEL PITS PER OPERATOR REQUEST, PIT 2

- OBM RETURNED TO VENDOR, CUTTINGS PERMITTED PER DISTRICT

Category Description

PENDING CD - 201809094 1/16/2019 - GB1 - (E.O.) 31-20N-13W

X201900471 MSSP

COMPL. INT. NCT 240' FNL, NCT 150' FSL, NCT 660' FWL SANDRIDGE EXPLORATION AND PRODUCTION, LLC REC. 1/25/2019 (THOMAS) PER ATTORNEY FOR OPERATOR

PENDING CD - 201900471 1/25/2019 - GB1 - (E.O.)(640)(HOR) 31-20N-13W

**EST MSSP** 

COMPL INT NLT 660' FB

(COEXIST WITH SP #166388 MSSSD, SP # 184836 CSTR, SP. # 87492 MNNG)\*\*\*

REC. 1/25/2019 (THOMAS) PER ATTORNEY FOR OPERATOR

\*\*\*SP #184836 CRUNC WILL BE ADDED AT FINAL HEARING

195 TOPOGRAPHIC LAND SURVEYORS OF OKLAHOMA
13800 WIRELESS WAY, OKLA. CITY, OKLA. 73134 \* LOCAL (405) 843-4847 \* OUT OF STATE (800) 654-3219

Certificate of Authorization No. 1293 LS MAJOR County, Oklahoma 240'FNL - 795'FWL 20N Section 13W I.M. \_ Township \_ Range 1812109 427838 X 1817391 Y 427791 KICK-OFF POINT 240' 1814760 427814 [1865']-<sub>++</sub> 795 KICK-OFF POINT 100'FNL - 660'FWL NAD-27 (US Feet) 36'10'24.2" N 98'38'03.7" W LANDING POINT  $\parallel$ LOT 1 36.173378187° 98.634356061° X 1812769 E/2-NW/4 (2400') LANDING POINT 500'FNL-660'FWL NAD-27 (US Feet) 36'10'20.2" N 98'38'03.7" W LOT 2 K PROPOSED 36.172279331°N 98.634350975°W 1812768 31 LOT 3 LOT 4 LOT 5 LOT 6 = = GRID MAJOR CO. County Line-P NAD-27 OK NORTH U.S. FEET BLAINE CO. 500 1000 LOT 7 LOT 10 LOT 9 LOT 8 (2490') 8 8 BOTTOM HOLE 150'FSL - 660'FWL NAD-27 (US Feet) LOT 11 DEWEY 36'09'34.6"N 98'38'03.5"W 36.159615885°N 98.634292380°W X 1812755 S/2-SE/4 BOTTOM HOLE 660 [1968'] Township Line-P 150 X 1812095 Y 422580 T19N-R13W LANDING POINT, KICK-OFF POINT, BOTTOM HOLE AND DRILL PATH INFORMATION PROVIDED BY THE INFORMATION SHOWN HEREIN IS OPERATOR LISTED, NOT SURVEYED. Operator: SANDRIDGE EXPLORATION & PRODUCTION, LLC **ELEVATION:** Lease Name: BARNES 2013 Well No.: \_\_\_1-31H 1675' Gr. at Stake (NGVD 29) Topography & Vegetation Location fell in rolling sandy pasture, ±250' East of pipeline. Reference Stakes or Alternate Location Yes Good Drill Site? \_ Stakes Set From North off county road. Best Accessibility to Location Distance & Direction from Hwy Jct or Town From Seiling, Ok., go North on U.S. Hwy. 281 ±2.5 miles, East ±4 miles, South ±1 mile, East ±12 miles to the NW Corner of Section 31, T20N - R13W Was ESSIONAL Date of Drawing: October 2, 2018 DATUM: NAD-27 Invoice # <u>302826</u> Date Staked: 36°10'22.8"N LONG: 98°38'02.0"W **CERTIFICATE:** 36.172992836°N LAT: SURVEYOR CENSED Thomas L. Howell LONG: 98.633896952\*W \_an Oklahoma Licensed Land THOMAS L Surveyor and an authorized agent of Topographic Land **HOWELL** STATE PLANE Surveyors of Oklahoma, do hereby certify to the 1433 COORDINATES (US FEET): information shown herein. ZONE: OK NORTH 1812904 OKLAHOMA 427591 Z AHOW

Oklahoma Reg. No.,

35-093-25195

TOPOGRAPHIC LAND SURVEYORS OF OKLAHOMA

13800 WIRELESS WAY, OKLA. CITY, OKLA. 73134 \* LOCAL (405) 843-4847 \* OUT OF STATE (800) 654-3219

Certificate of Authorization No. 1293 LS MAJOR County, Oklahoma 240'FNL -795'FWL Section \_ Township 20N \_ Range \_\_<u>13W\_</u>I.M. X 1812109 Y 427838 X 1817391 427791 KICK-OFF POINT 18657-LANDING POINT 36 10 24.2" N 98 38 03.7 W 98.63435606 X 1812769 427732 -E/2-NW/4 LANDING POINT 500 FNL - 660 FWL NAD - 27 (US Feet) 36\*10'20.2" N 98'38'03.7" W 36.172279331'N 98.634350975'W LOT 2 H PROPOSED -N−5 137 1 1950 1812768 427332 LOT 3 LOT 5 GRID MAJOR CO. NAD-27 OK NORTH BLAINE CO. U.S. FEET 500 1000 LOT 10 LOT 9 LOT 8 (2490 8,8 BOTTOM HOLE 150 FSL - 660 FW NAD-27 (US Feet) 36'09'34.6"N 98'38'03.5"W LOT 11 660 FWL S/2-SE/4 36.159615885°N 98.634292380°W X 1812755 BOTTOM HOLE 19687 Township Line P X 181209 Y 422580 LANDING POINT, KICK-OFF POINT, BOTTOM HOLE AND DRILL PATH INFORMATION PROVIDED BY THE INFORMATION SHOWN HEREIN IS OPERATOR LISTED, NOT SURVEYED. Operator: \_SANDRIDGE EXPLORATION & PRODUCTION, LLC **ELEVATION:** Lease Name: BARNES 2013 Well No.: 1-31H 1675' Gr. at Stake (NGVD 29) Topography & Vegetation Location fell in rolling sandy pasture, ±250' East of pipeline. Reference Stakes or Alternate Location Yes Good Drill Site? \_ Stakes Set . From North off county road. Best Accessibility to Location \_\_\_ Distance & Direction from Hwy Jct or Town From Seiling, Ok., go North on U.S. Hwy. 281 ±2.5 miles, East ±4 miles, South ±1 mile, East ±12 miles to the NW Corner of Section 31, T20N - R13W. Date of Drawing: October 2, 2018 DOFESSIONAL 20 PROPERTY OF THE DATUM: NAD-27 Invoice # 302826 Date Staked: September 18, LAT: 36°10'22.8"N LONG: 98°38'02.0"W **CERTIFICATE:** LAT: 36.172992836°N CENSED SURVE Thomas L. Howell THOMAS L LONG: 98.633896952°W \_\_an Oklahoma Licensed Land Surveyor and an authorized agent of Topographic Land STATE PLANE Surveyors of Oklahoma, do hereby certify to the COORDINATES (US FEET): information shown herein. ZONE: OK NORTH O A L A H O M A 1812904

1433

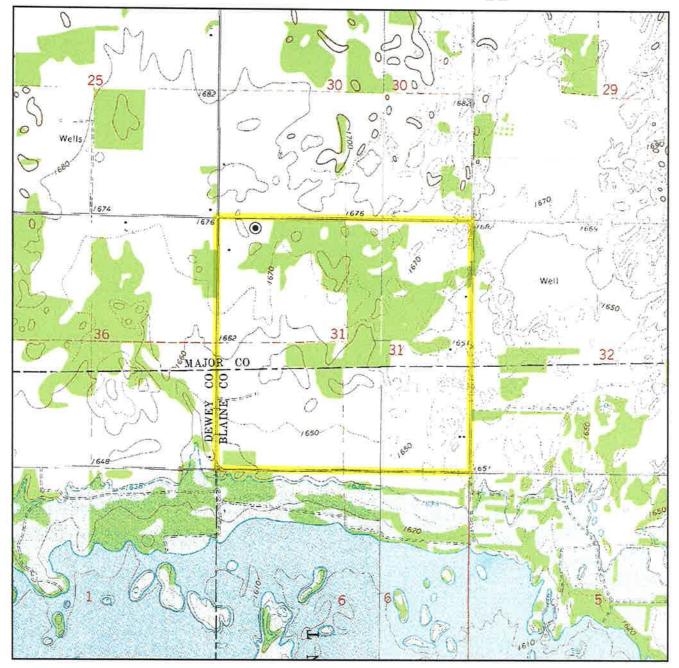
Oklahoma Reg. No. \_

427591

# 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



OGRADI-CO ON NO

Sec. 31 Twp. 20N Rng. 13W IM

County\_\_\_\_\_ MAJOR State\_\_\_ OK

Operator SANDRIDGE EXPLORATION & PRODUCTION, LLC

Description 240'FNL - 795'FWL

Lease BARNES 2013 1-31H

Elevation 1675' Gr. at Stake

Above Background Data from U.S.G.S. Topographic Map Scale: 1"=2000'

Contour Interval \_\_\_\_\_10'

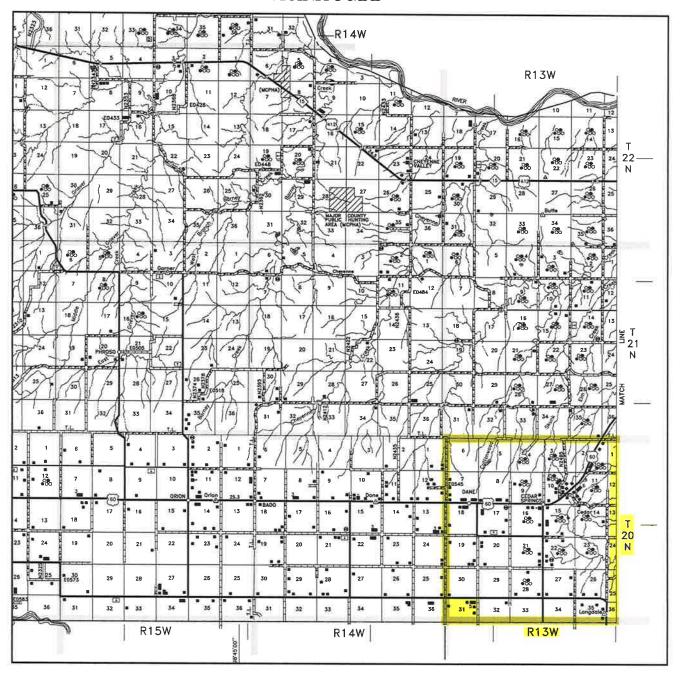
When elevation is shown hereon it is the ground elevation of the location stake. Review this plat and inform us immediately of any possible discrepancy.

### LAND SURVEYORS OF OKLAHOMA

# 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. 31 Twp. 20N Rng. 13W IM

County MAJOR State OK

Operator SANDRIDGE EXPLORATION & PRODUCTION, LLC

LAND SURVEYORS OF OKLAHOMA