

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

API NUMBER: 093 25211

Approval Date: 03/20/2019

Expiration Date: 09/20/2020

Horizontal Hole
Multi Unit

Oil & Gas

PERMIT TO DRILL

WELL LOCATION: Sec: 31 Twp: 20N Rge: 14W County: MAJOR

SPOT LOCATION: ☐ NW ☐ NW ☐ NW FEET FROM QUARTER: FROM NORTH FROM WEST

SECTION LINES: 215 230

Lease Name: MISSION 2014 Well No: 2-31H6H Well will be 215 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

THOMAS BRUCE NICHOLS & LORI KAY NICHOLS
239209 E. COUNTY ROAD 587
CHESTER OK 73838

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

Name	Depth	Name	Depth
1 MISS'AN LM	9062	6	
2		7	
3		8	
4		9	
5		10	

Spacing Orders: 141045

Location Exception Orders:

Increased Density Orders: 674474

Pending CD Numbers: 201901078
201901079
201901080

Special Orders:

Total Depth: 18815

Ground Elevation: 1674

Surface Casing: 1500

Depth to base of Treatable Water-Bearing FM: 310

Under Federal Jurisdiction: Yes

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: 19-36178
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 19N Rge 14W County DEWEY

Spot Location of End Point: SE SW SW SW

Feet From: SOUTH 1/4 Section Line: 150

Feet From: WEST 1/4 Section Line: 430

Depth of Deviation: 7829

Radius of Turn: 478

Direction: 177

Total Length: 10236

Measured Total Depth: 18815

True Vertical Depth: 9240

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

Notes:

Category

Description

DEEP SURFACE CASING

2/19/2019 - 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

2/19/2019 - 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

INCREASED DENSITY - 674474

3/14/2019 - G58 - 31-20N-14W
X141045 MPLM
3 WELLS
SANDRIDGE EXPLORATION AND PRODUCTION, LLC
3/8/2018

INTERMEDIATE CASING

2/19/2019 - 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

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

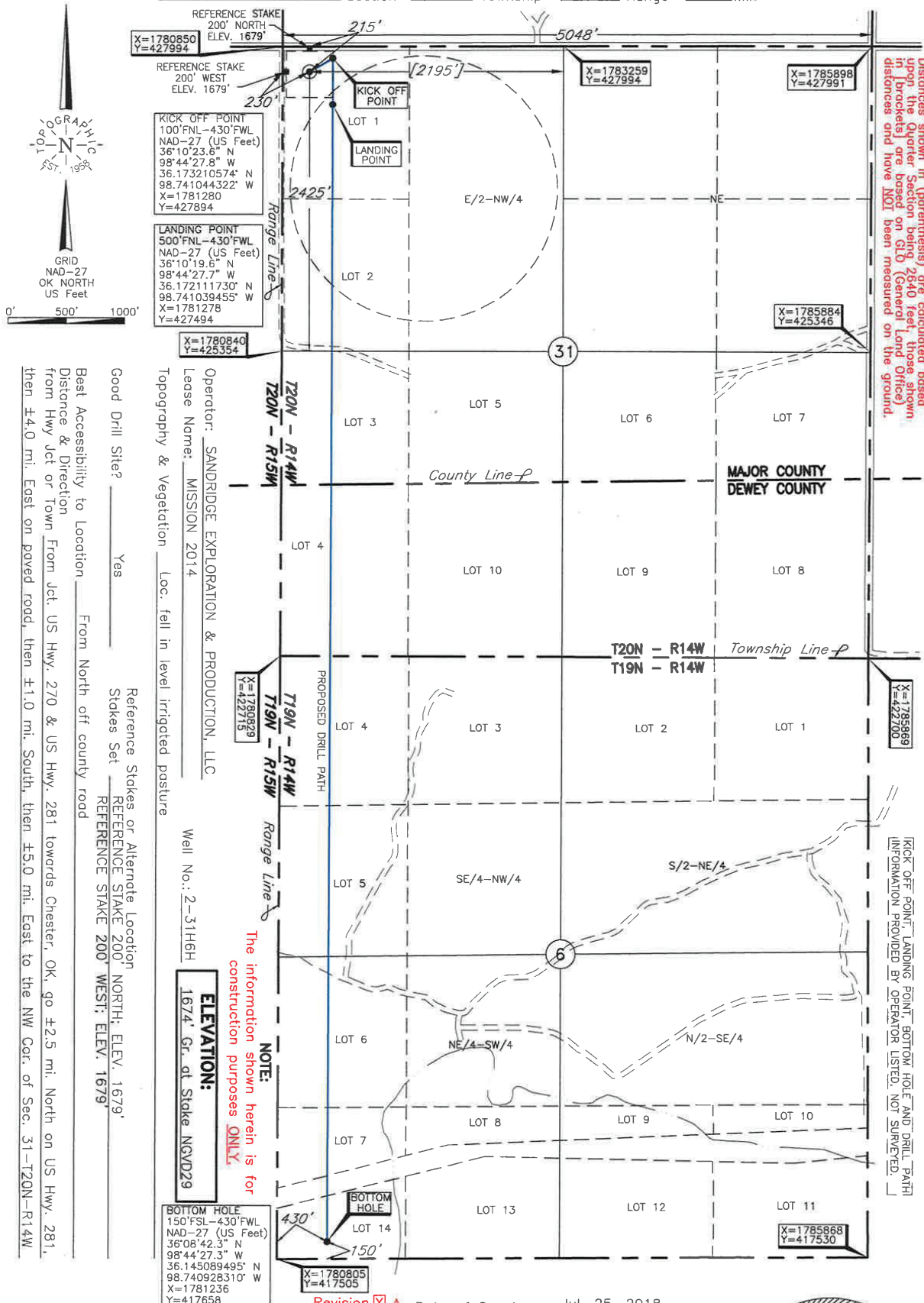
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Rule 165: 10-3-4 (c) (7) (e) - The Operator shall give 24 Hours notice by telephone to the appropriate District Office of the Conservation Division as to when Surface Casing will be run.

093 25211 MISSION 2014 2-31H6H

Category	Description
MEMO	2/19/2019 - G71 - PITS 1 & 2 - CLOSED SYSTEM=STEEL PITS PER OPERATOR REQUEST, PIT 2 - OBM RETURNED TO VENDOR, CUTTINGS PERMITTED PER DISTRICT
PENDING CD - 201901078	3/13/2019 - G58 - (I.O.)(640) 6-19N-14W EXT 141045 MPLM REC 3/12/2019 (P. PORTER)
PENDING CD - 201901079	3/14/2019 - G58 - (I.O.) 6-19N-14W & 31-20N-14W EST MULTIUNIT HORIZONTAL WELL X201901078 MPLM X141045 MPLM 50% 6-19N-14W 50% 31-20N-14W NO OP. NAMED REC 3/15/2019 (MILLER)
PENDING CD - 201901080	3/14/2019 - G58 - (I.O.) 6-19N-14W & 31-20N-14W X201901078 MPLM X141045 MPLM COMPL. INT. 6-19N-14W NCT 150' FSL, NCT 0' FNL, NCT 330' FWL COMPL. INT. 31-20N-14W NCT 0' FSL, NCT 150' FNL, NCT 330' FWL NO OP. NAMED REC 3/15/2019 (MILLER)
SPACING - 141045	3/13/2019 - G58 - (640) 31-20N-14W EXT 125423 MPLM

215' FNL - 230' FWL Section 31 Township 20N Range 14W I.M.



DATUM: NAD-27
LAT: 36°10'22.4"N
LONG: 98°44'30.2"W
LAT: 36.172890528° N
LONG: 98.741720117° W
STATE PLANE COORDINATES: (US Feet)
ZONE: OK NORTH
X: 1781080
Y: 427779

Revision ☒ A Date of Drawing: Jul. 25, 2018
Invoice # 280038 Date Staked: Aug. 15, 2017

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

JGW
AC

