API NUMBER: 093 25124

Oil & Gas

Horizontal Hole

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

Approval Date: 01/24/2018

Expiration Date: 07/24/2018

PERMIT TO DRILL

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

SPOT LOCATION: NE NE NE NE FEET FROM QUARTER: FROM NORTH FROM EAST SECTION LINES: 275 225

Lease Name: MISSION 2014 Well No: 1-31H Well will be 225 feet from nearest unit or lease boundary.

Operator SANDRIDGE EXPLORATION & PRODUCTION LLC Telephone: 4054295610 OTC/OCC Number: 22281 0

SANDRIDGE EXPLORATION & PRODUCTION LLC 123 ROBERT S KERR AVE STE 1702

OKLAHOMA CITY, OK 73102-6406

BILL R. KEETON & ELEANOR JOAN KEETON

241998 E. 590 RD.

LONGDALE OK 73755

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

Name Depth Name Depth MISS'AN LM 1 9003 6 2 7 8 3 4 9 10 141045 Spacing Orders: Location Exception Orders: 667614 Increased Density Orders:

Pending CD Numbers: Special Orders:

Total Depth: 13753 Ground Elevation: 1672 Surface Casing: 1500 Depth to base of Treatable Water-Bearing FM: 300

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.

TERRACE

Category of Pit: C

Pit Location Formation:

Liner not required for Category: CPit Location is AP/TE DEPOSIT

E. Haul to Commercial pit facility: Sec. 33 Twn. 26N Rng. 15W Cnty. 151 Order No: 627651

H SEE MEMO

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 14W County DEWEY

Spot Location of End Point: SW SE SE SE
Feet From: SOUTH 1/4 Section Line: 150
Feet From: EAST 1/4 Section Line: 430

Depth of Deviation: 8510 Radius of Turn: 750 Direction: 182

Total Length: 4065

Measured Total Depth: 13753

True Vertical Depth: 9073

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

Notes:

Category Description

DEEP SURFACE CASING 11/6/2017 - G71 - APPROVED; NOTIFY OCC FIELD INSPECTOR IMMEDIATELY FOR ANY LOSS

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

SURFACE CASING

HYDRAULIC FRACTURING 11/6/2017 - 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 11/6/2017 - 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

LOCATION EXCEPTION - 667614 12/14/2017 - G75 - (I.O.) 31-20N-14W

X141045 MPLM

COMPL. INT. NCT 150' FNL, NCT 150' FSL, NCT 330' FEL

SANDRIDGE EXPLOR. & PROD., LLC

8-29-2017

Description Category

11/6/2017 - G71 - PIT 1 & 2 - CLOSED SYSTEM=STEEL PITS PER OPERATOR REQUEST; PIT 2 - OBM TO VENDOR, OBM CUTTINGS PER DISTRICT MEMO

SPACING - 141045 12/14/2017 - G75 - (640) 31-20N-14W

EXT OTHER

EXT 125423 MPLM (BASE OF MCSTR TO TOP WDFD PER ORDER)

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 API 093-25124 MAJOR County, Oklahoma 31 Township 20N Range 14W I.M. REFERENCE STAKE 275'FNL - 225'FEL Section _ 200' NORTH ELEV. 1688' 5048 X 1785898 Y **427991** 2753 X 1780850 Y 427994 X 1783259 Y 427994 REFERENCE STAKE 200' EAST ELEV. 1681' PROPOSED PAD LOT 1 LANDING POINT E/2-NW/4 2371 LANDING POINT 1075 FNL-430 FEL NAD-27 (US Feet) 36'10'14.2"N 98'43'36.7"W LOT 2 36.170613137'N 98.726850566'W X 1785462 426917 1780840 X 1785884 Y 425346 425354 GRID NAD-27 LOT 5 LOT 6 LOT 7 LOT 3 OK NORTH U.S. FEET 500 1000 DRIL County Line-P MAJOR COUNTY DEWEY COUNTY BOTTOM HOLE 150'FSL-430'FEL NAD-27 (US Feet) 36'09'34.0"N 98'43'36.6"W LOT 10 LOT 8 LOT 4 36.159444987°N 98.726822957'W X 1785440 Y 422852 422852 LOT 9 BOTTOM HOLE Township Line P T20N - R14W T19N - R14W X 1780829 1785869 -NOTE-Y 422700 The information shown herein is for Distances shown in (parenthesis) are calculated based upon the Quarter Section being 2640 feet, those shown in [brackets] are based on GLO (General Land Office) distances and have NOT been measured on the ground. construction purposes ONLY. LANDING POINT, BOTTOM HOLE AND DRILL PATH INFORMATION PROVIDED BY OPERATOR LISTED, NOT SURVEYED. Operator: SANDRIDGE EXPLORATION AND PRODUCTION, LLC **ELEVATION:** Lease Name: MISSION 2014 Well No.: 1-31H 1672' Gr. at Stake (NGVD29) Location fell in sloped grass pasture; ±217' South of E-W Water Line; ±233' South of Topography & Vegetation E-W Fence and Powerline. Reference Stakes Set ___(1) 200' North Elev.: 1688' (2) 200' East Yes Good Drill Site? _ From North off county road Best Accessibility to Location ___ Distance & Direction From Seiling, Ok., go North on U.S. Hwy. 281 ±2.5 miles towards Chester, Ok., then ±4 miles East, from Hwy Jct or Town then ± 1 mile South, then ± 6 miles East to the NE corner of Section 31, T20N - R14W. DESSIONAL May 30, 2017 Date of Drawing: _ Invoice # 276412 Date Staked: ___ May 23, 2017 RKM NAD-27 LAT: 36°10'22.1"N LONG: 98°43'34.2"W **CERTIFICATE:** THOMAS L. LAT: 36.172815017°N I, Thomas L. Howell an Oklahoma Licensed Land Surveyor and an authorized agent of Topographic Land HOWELL LONG: 98.726160898'W 1433 STATE PLANE Surveyors of Oklahoma, do hereby certify to the COORDINATES: (US Feet) information shown herein *LAHOMA ZONE: OK NORTH 1785672 427717 Oklahoma Lic. No.