API NUMBER: 093 25123

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: 15W County: MAJOR

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

SECTION LINES: 155 225

Lease Name: GILCHRIST 2016 Well No: 2-36H Well will be 155 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

RICK & WANDA MONGOLD 238786 EAST CR. 54

CHESTER OK 73838

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

Name Depth Name Depth MISSISSIPPIAN 1 9420 6 2 7 8 3 4 9 10 663715 Spacing Orders: Location Exception Orders: Increased Density Orders:

Pending CD Numbers: 201708631 Special Orders:

201708632

Total Depth: 14732 Ground Elevation: 1671 Surface Casing: 1500 Depth to base of Treatable Water-Bearing FM: 410

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 ALLUVIAL

Pit Location Formation: ALLUVIUM

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 ALLUVIAL

Pit Location Formation: ALLUVIUM

HORIZONTAL HOLE 1

Sec 36 Twp 20N Rge 16W County DEWEY

Spot Location of End Point: S2 S2 SW SE
Feet From: SOUTH 1/4 Section Line: 150
Feet From: EAST 1/4 Section Line: 1980

Depth of Deviation: 8815 Radius of Turn: 900 Direction: 200

Total Length: 4503

Measured Total Depth: 14732

True Vertical Depth: 9506

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

Notes:

Category Description

DEEP SURFACE CASING 1/8/2018 - 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 1/8/2018 - 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 1/8/2018 - 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 1/8/2018 - G71 - PIT 1 & 2 - CLOSED SYSTEM=STEEL PITS PER OPERATOR REQUEST; PIT 2 -

OBM TO VENDOR, OBM CUTTINGS PER DISTRICT

Category Description

PENDING CD - 201708631 1/11/2018 - G75 - 36-20N-16W

X663715 MSSP 3 WELLS NO OP. NAMED

REC 1-23-2018 (NORRIS)

PENDING CD - 201708632 1/11/2018 - G75 - (I.O.) 36-20N-16W

X663715 MSSP

COMPL. INT. NCT 150' FNL, NCT 150' FSL, NCT 1320' FEL

NO OP. NAMED

REC 1-23-2018 (NORRIS)

SPACING - 663715 1/11/2018 - G75 - (640)(HOR) 36-20N-16W

VAC 236070 CSTR, MPLM EXT 653280 MSSP, OTHER POE TO BHL NLT 660' FB

API 093-25123

6709 NORTH CLASSEN BLVD., OKLA. CITY, OKLA. 73116 * LOCAL (405) 843-4847 * OUT OF STATE (800) 654-3219

Certificate of Authorization No. 1293 LS MAJOR County, Oklahoma 20N Ran**ge** BOTTOM HOLE, LANDING POINT, AND DRILL PATH INFORMATION 155'FNL - 225'FWL 15W I.M. PROVIDED BY OPERATOR LISTED, NOT SURVEYED. Section Township X= 1744155 Y= 428125 X= 1749393 Y= 428073 X= 1746774 Y= 428099 X= 1751962 Y= 428071 2346 LANDING POINT Lot 1 600'FNL-1980'FEL NAD-27 (US Feet) OGR4A 36'10'16.8"N 98'51'20.8"W 36.171342886'N 98.855789039°W X= 1747408 2466' E/2-NW/4 GRID NAD-27 OK NORTH lot 2 US Feet 500' X= 1754599 Y= 425437 X= 1744139 Y= 425489 This information was gathered with a GPS receiver with ±1 foot Horiz./Vert. accuracy Lot 4 DATUM: NAD-27 LAT: 36'10'21.2"N LONG: 98'50'53.9"W Lot 1 Lot 3 Lot 2 LAT: 36.172564140'N BOTTOM HOLE ANCIENT BANK 150'FSL~1980'FEL NAD-27 (US Feet) 36'09'32.3"N LONG: 98.848317788'W Lot 5 Lot 4 Lot 6 2476 STATE PLANE COORDINATES: (US Feet) 98'51'20.9"W POSSIBLE 36.158973305°N ZONE: OK NORTH EXISTING WELL ANCIENT BANK 98.855795755'W X: 1749617 X= 1747366 Y= 422990 MAJOR CO. Y: 427918 County Line-P DEWEY CO. NOTE: NORTH The information shown herein is for Lot 9 Lot 8 construction purposes ONLY. Lot 7 BOTTOM HOLE Lot 11 Lot 10 Lot 8 X= 1751975 Y= 422819 T20N-R15W Township | Line-P T20N-R16W Township T19N-R15W T19N-R16W Operator: SANDRIDGE EXPLORATION & PRODUCTION, LLC Jan. 04, 2018 **ELEVATION:** Date Drawn: Lease Name: GILCHRIST 2016 Invoice # 286463 Date Staked: Jan. 03, 2018 ESSIONAL Well No.: 2-36H 1671' Gr. at level pad AC Topography & Vegetation Loc. fell on level pad **CERTIFICATE:** Thomas L. Howell Reference Stakes or Alternate Location _an Oklahoma Licensed Land THOMAS L Stakes Set None Good Drill Site? ___ Surveyor and an authorized agent of Topographic Land HOWELL Surveyors of Oklahoma, do hereby certify to the 1433 Best Accessibility to Location ____ From North off county road information shown herein Distance & Direction from Hwy Jct or Town From Seiling, OK, go ±3.0 mi. North on US Hwy. 281, then ±4.0 mi. East on paved road, OKLAHOMP Oklahoma Lic. No. AL AHOM then ±1.0 mi. South to the NW Cor. of Sec. 31-T20N-R15W.