API NUMBER: 093 25125

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: 02/06/2018

Expiration Date: 08/06/2018

PERMIT TO DRILL

WELL LOCATION: Sec: 28 Twp: 20N Rge: 15W County: MAJOR

SPOT LOCATION: SE SW SE SW FEET FROM QUARTER: FROM SOUTH FROM WEST SECTION LINES: 280 1720

Lease Name: KASPER 2015 Well No: 3-28H Well will be 280 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

THE UNWIN FAMILY TRUST 861 COUNTY ROAD R

PLAINVIEW TX 79072

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

Name Depth Name Depth MERAMEC 1 9290 6 2 7 3 8 4 9 10 132765 Spacing Orders: Location Exception Orders: Increased Density Orders: 666888

Pending CD Numbers: 201800196 Special Orders:

Total Depth: 13927 Ground Elevation: 1704 Surface Casing: 1500 Depth to base of Treatable Water-Bearing FM: 380

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

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

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 28 Twp 20N Rge 15W County **MAJOR** NW Spot Location of End Point: N2 N2 ΝE Feet From: NORTH 1/4 Section Line: 150 WEST Feet From: 1/4 Section Line: 1980

Depth of Deviation: 8897 Radius of Turn: 750

Direction: 5

Total Length: 3852

Measured Total Depth: 13927

True Vertical Depth: 9290

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

Notes:

Category Description

DEEP SURFACE CASING 1/18/2018 - 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 1/18/2018 - 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

INCREASED DENSITY - 666888 1/24/2018 - G75 - 28-20N-15W

X132765 MRMC, OTHER

5 WELLS

SANDRIDGE EXPLOR. & PROD., L.L.C.

8-11-2017

INTERMEDIATE CASING 1/18/2018 - 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

Category Description

MEMO 1/18/2018 - G71 - PIT 1 & 2 - CLOSED SYSTEM=STEEL PITS PER OPERATOR REQUEST; PIT 2 -

OBM TO VENDOR, OBM CUTTINGS PER DISTRICT

PENDING CD - 201800196 1/24/2018 - G75 - (I.O.) 28-20N-15W

X132765 MRMC

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

NO OP. NAMED

REC 2-5-2018 (NORRIS)

SPACING - 132765 1/23/2018 - G75 - (640) 28-20N-15W

EST OTHER EXT OTHER

EXT 128899 MRMC, OTHERS

TOPOGRAPHIC LAND SURVEYORS OF OKLAHOMA
6709 NORTH CLASSEN BLVD., OKLA. CITY, OKLA. 73116 * LOCAL (405) B43-4847 * OUT OF STATE (800) 654-3219

Certificate of Authorization No. 1293 LS MAJOR API 093-25125 County, Oklahoma 280'FSL - 1720'FWL 28 Township 20N Range 15W I.M. _ Section _ X=1765146 Y=433304 X=1762525 Y=433258 150 EXISTING WELL र्व 660'FNL-1980'FEL ±1278' TO PDP EXISITNG WELL 324'FNL-310'FWL ±1670' TO PDP <u>.0</u> >: 1980 640 (BOTTOM HOLE S herein construction purposes shown BOTTOM HOLE BOTTOM HOLE 150'FNL-1980'FWL NAD-27 (US Feet) 36'11'13.5" N 98'48'24.8" W 36.187078495' N NOTE 2420 information 98.806900117* X=1761885 Y=433097 The X=1765128 28 Y=430677 X=1759895 Y=430677 OGRAD' LANDING POINT 1200'FSL-1980'FWL PATH NAD-27 (US Feet) 36°10'35.4" N 98°48'24.6" W 2352 557 1958 36.176496253° N 98.806846574° W X=1761869 180' WEST TO LANDING POINT Y=429245 KASPER 2015 4-28H GRID 1720' 894' NAD-27 OK NORTH X=1762497 1000 5227 380' WEST TO CHARLESTON 2015 4-33H WEST TO LANDING POINT, BOTTOM HOLE AND DRILL PATH INFORMATION CHARLESTON 2015 3-33H PROVIDED BY OPERATOR LISTED, NOT SURVEYED. Operator: SANDRIDGE EXPLORATION & PRODUCTION, LLC **ELEVATION:** Lease Name: KASPER 2015 Well No.: 3-28H 1704' Gr. at Stake Topography & Vegetation Loc. fell in rolling pasture, ±204' North of E-W pipeline Reference Stakes or Alternate Location Yes Stakes Set None Good Drill Site? ___ From South off county road Best Accessibility to Location __ Distance & Direction From Seiling, OK, go ±2.5 mi. North on US Hwy. 281 towards Chester, OK, then ±4.0 mi. from Hwy Jct or Town East on county road, then ±1.0 mi. South, then ±2.0 mi. East to the SW Cor. of Sec. 28-T20N-R15W DOFESSIONAL Jan. 02, 2018 Date of Drawing: _ DATUM: NAD-27 LAT: 36°10'26.3"N LONG: 98°48'27.8"W Invoice # 286420B Date Staked: Dec. 28, 2017 No LONG: 98'48'27.8"W **CERTIFICATE:** s information w d with a GPS r foot Horiz./Vert. a SURVE LAT: __36.173962041* N THOMAS L Thomas L. Howell __an Oklahoma Licensed Land LONG: 98.807716701° W HOWELL Surveyor and an authorized agent of Topographic Land STATE PLANE Surveyors of Oklahoma, do hereby certify to the O'T LAHOMA POLICY 1433 COORDINATES: (US Feet) information shown herein ZONE: OK NORTH Thoma I. Now 1761604 428325 Oklahoma Lic. No.