

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

API NUMBER: 047 24828

Approval Date: 04/02/2014  
Expiration Date: 10/02/2014

Horizontal Hole Oil & Gas

PERMIT TO DRILL

WELL LOCATION: Sec: 18 Twp: 24N Rge: 6W County: GARFIELD  
SPOT LOCATION:  SE  SW  SE  SE FEET FROM QUARTER: FROM SOUTH FROM EAST  
SECTION LINES: 210 770

Lease Name: RDG 2406 Well No: 1-19H Well will be 210 feet from nearest unit or lease boundary.

Operator Name: SANDRIDGE EXPLORATION & PRODUCTION LLC Telephone: 4054296169 OTC/OCC Number: 22281 0

SANDRIDGE EXPLORATION & PRODUCTION LLC  
123 ROBERT S KERR AVE STE 1702  
OKLAHOMA CITY, OK 73102-6406

ROBERT DALE GRAY & LINDA L. GRAY  
P.O. BOX 192  
KREMLIN OK 73753

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

Name	Depth	Name	Depth
1	MISSISSIPPIAN	5806	6
2			7
3			8
4			9
5			10

Spacing Orders: No Spacing

Location Exception Orders:

Increased Density Orders:

Pending CD Numbers: 201401893  
201401894

Special Orders:

Total Depth: 11879 Ground Elevation: 1136 **Surface Casing: 1500** Depth to base of Treatable Water-Bearing FM: 420

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 BED AQUIFER

Pit Location Formation: KINGMAN

D. One time land application -- (REQUIRES PERMIT) PERMIT NO: 14-26778  
H. CLOSED SYSTEM=STEEL PITS PER OPERATOR REQUEST

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.

HORIZONTAL HOLE 1

Sec 19 Twp 24N Rge 6W County GARFIELD

Spot Location of End Point: S2 S2 SE SE

Feet From: SOUTH 1/4 Section Line: 150

Feet From: EAST 1/4 Section Line: 660

Depth of Deviation: 5382

Radius of Turn: 890

Direction: 177

Total Length: 5099

Measured Total Depth: 11879

True Vertical Depth: 5959

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

Notes:

Category	Description
DEEP SURFACE CASING	3/28/2014 - G71 - APPROVED; NOTIFY OCC FIELD INSPECTOR IMMEDIATELY FOR ANY LOSS OF CIRCULATION OR FAILURE TO CIRCULATE CEMENT TO SURFACE ON CONDUCTOR OR SURFACE CASING
PENDING CD - 201401893	4/2/2014 - G75 - (E.O.)(640) 19-24N-6W VAC OTHERS EST (VER) OTHERS EST (HOR) OTHERS EXT (VER) OTHER EXT (HOR) 612374 MSSP POE TO BHL NLT 660' FB (SUPERSEDE SP. ORDER # 153045 MSSLM, OTHER) SANDRIDGE EXPLOR. & PROD., L.L.C. REC 4-2-2014 (OSBURN)
PENDING CD - 201401894	4/2/2014 - G75 - (E.O.) 19-24N-6W X201401893 MSSP COMPL. INT. NCT 150 FNL, NCT 150 FSL, NCT 560 FEL SANDRIDGE EXPLOR. & PROD., L.L.C. REC 4-2-2014 (OSBURN)

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