

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

API NUMBER: 047 25005

Approval Date: 02/03/2015
Expiration Date: 08/03/2015

Horizontal Hole Oil & Gas

PERMIT TO DRILL

WELL LOCATION: Sec: 12 Twp: 24N Rge: 7W County: GARFIELD
SPOT LOCATION: NE NE NW NW FEET FROM QUARTER: FROM NORTH FROM WEST
SECTION LINES: 200 1200

Lease Name: SHAUNA 2407 Well No: 2-12H Well will be 200 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 E. GRAY & SHAUNA J. GRAY
P.O. BOX 198
KREMLIN OK 73753

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

Name	Depth	Name	Depth
1	MISSISSIPPIAN	5754	6
2			7
3			8
4			9
5			10

Spacing Orders: 621852 Location Exception Orders: 634034 Increased Density Orders: 634033

Pending CD Numbers:

Special Orders:

Total Depth: 11410 Ground Elevation: 1128 **Surface Casing: 1500** Depth to base of Treatable Water-Bearing FM: 390

Under Federal Jurisdiction: No Fresh Water Supply Well Drilled: No Surface Water used to Drill: Yes

PIT 1 INFORMATION

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

Approved Method for disposal of Drilling Fluids:

- D. One time land application -- (REQUIRES PERMIT) PERMIT NO: 15-29515
E. Haul to Commercial pit facility: Sec. 15 Twn. 24N Rng. 7W Cnty. 47 Order No: 623842
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 12 Twp 24N Rge 7W County GARFIELD

Spot Location of End Point: S2 S2 SW SW

Feet From: SOUTH 1/4 Section Line: 150

Feet From: WEST 1/4 Section Line: 660

Depth of Deviation: 5154

Radius of Turn: 844

Direction: 185

Total Length: 4930

Measured Total Depth: 11410

True Vertical Depth: 5887

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

Notes:

Category	Description
DEEP SURFACE CASING	2/3/2015 - G71 - APPROVED CONTINGENT ON NOTIFYING OCC FIELD STAFF IMMEDIATELY OF ANY LOSS OF CIRCULATION OR FAILURE TO CIRCULATE CEMENT TO SURFACE ON ANY CONDUCTOR OR SURFACE CASING
INCREASED DENSITY - 634033	2/3/2015 - G91 - 12-24N-7W X621852 MSSP 3 WELLS SANDRIDGE EXPLOR. & PROD., L.L.C. 12-10-2014
LOCATION EXCEPTION - 634034	2/3/2015 - G91 - (I.O.) 12-24N-7W X621852 MSSP, OTHER COMPL. INT. NCT 150 FNL, NCT 150 FSL, NCT 560 FWL SANDRIDGE EXPLOR. & PROD., L.L.C. 12-10-2014
SPACING - 621852	2/3/2015 - G91 - (640)(HOR) 12-24N-7W EST MSSP, OTHER POE TO BHL NLT 660' FB (SUPERSEDE SP. ORDER # 153045 MSSLM)