

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

API NUMBER: 047 24936

Approval Date: 09/23/2014
Expiration Date: 03/23/2015

Horizontal Hole Oil & Gas

PERMIT TO DRILL

WELL LOCATION: Sec: 16 Twp: 24N Rge: 7W County: GARFIELD
SPOT LOCATION: SW SE SW SW FEET FROM QUARTER: FROM SOUTH FROM WEST
SECTION LINES: 225 750

Lease Name: LOIS 2407 Well No: 4-16H Well will be 225 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

COMMISSIONERS OF THE LAND OFFICE
120 N. ROBINSON, SUITE 1000 W
OKLAHOMA CITY OK 73102

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

Name	Depth	Name	Depth
1 MISSISSIPPIAN	5966	6	
2		7	
3		8	
4		9	
5		10	

Spacing Orders: 615667 Location Exception Orders: 628542 Increased Density Orders: 628540

Pending CD Numbers:

Special Orders:

Total Depth: 11586 Ground Elevation: 1259 **Surface Casing: 350** Depth to base of Treatable Water-Bearing FM: 100

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? Y

Wellhead Protection Area? Y

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: BISON

D. One time land application -- (REQUIRES PERMIT) PERMIT NO: 14-28306
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 16 Twp 24N Rge 7W County GARFIELD

Spot Location of End Point: N2 N2 NW NW

Feet From: NORTH 1/4 Section Line: 150

Feet From: WEST 1/4 Section Line: 660

Depth of Deviation: 5494

Radius of Turn: 890

Direction: 357

Total Length: 4694

Measured Total Depth: 11586

True Vertical Depth: 6071

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

Notes:

Category	Description
INCREASED DENSITY - 628540	9/23/2014 - G75 - 16-24N-7W X615667 MSSP 2 WELLS SANDRIDGE EXPLOR. & PROD., L.L.C. 7-31-2014
LOCATION EXCEPTION - 628542	9/23/2014 - G75 - (I.O.) 16-24N-7W X615667 MSSP COMPL. INT. NCT 165 FSL, NCT 150 FNL, NCT 560 FWL SANDRIDGE EXPLOR. & PROD., L.L.C. 7-31-2014
PUBLIC WATER SUPPLY WELLS	9/3/2014 - G71 - GARFIELD CO. RWD #1 (KREMHILL), 2 PWS/WPA, SE4 16-24N-7W
SPACING - 615667	9/23/2014 - G75 - (640)(HOR) 16-24N-7W VAC 396024 MSSLM EST OTHER EXT 612526 MSSP POE TO BHL NCT 660' FB (SUPERSEDE NON-DEVELOPED NON-HORIZONTAL SPACING UNITS)