

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

API NUMBER: 103 24561 A

Approval Date: 08/14/2013  
Expiration Date: 02/14/2014

Horizontal Hole Oil & Gas

Amend reason: CHANGE IN SHL & BHL INFORMATION.

AMEND PERMIT TO DRILL

WELL LOCATION: Sec: 13 Twp: 24N Rge: 2W County: NOBLE  
SPOT LOCATION:  NE  NW  NE  NE FEET FROM QUARTER: FROM NORTH FROM EAST  
SECTION LINES: 275 800

Lease Name: FTB 2402 Well No: 2-13H Well will be 275 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 STATE OF OKLAHOMA  
SUITE 1000 WEST  
120 NORTH ROBINSON  
OKLAHOMA CITY OK 73102

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

Name	Depth	Name	Depth
1	MISSISSIPPIAN	4407	6
2			7
3			8
4			9
5			10

Spacing Orders: 599588 Location Exception Orders: Increased Density Orders: 604781  
Pending CD Numbers: 201306215 Special Orders:

Total Depth: 9882 Ground Elevation: 1043 **Surface Casing: 1500** Depth to base of Treatable Water-Bearing FM: 200

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: 5000 Average: 3000

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: WELLINGTON

Approved Method for disposal of Drilling Fluids:

D. One time land application -- (REQUIRES PERMIT) PERMIT NO: 13-24091  
H. CLOSED SYSTEM=STEEL PITS PER OPERATOR OPTION

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 13 Twp 24N Rge 2W County NOBLE

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: 3539

Radius of Turn: 577

Direction: 180

Total Length: 4606

Measured Total Depth: 9882

True Vertical Depth: 4459

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

Notes:

Category	Description
DEEP SURFACE CASING	8/14/2013 - 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 - 604781	8/14/2013 - G30 - 13-24N-2W X599588 MSSP 1 WELL SANDRIDGE EXPLORATION AND PRODUCTION, L.L.C. 11/29/12
PENDING CD - 201306215	9/24/2013 - G30 - 13-24N-2W X599588 MSSP COMP. INT. NCT 165 FNL, NCT 165 FSL, NCT 560 FEL NO OP. NAMED REC 10/8/13 (LEAVITT)
SPACING - 599588	8/14/2013 - G30 - (640) 13-24N-2W VAC 161469 MSSSD (E2) VAC 173427 MSSCT (E2) VAC 43429 MSSCT (W2) (VER) EST OTHERS (HOR) EST MSSP POE TO BHL NLT 660' FB

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