

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

API NUMBER: 093 24977 A

Approval Date: 08/27/2013
Expiration Date: 02/27/2014

Horizontal Hole Oil & Gas

Amend reason: ADD OIL-BASED MUD SYSTEM; UPDATE ORDERS

AMEND PERMIT TO DRILL

WELL LOCATION: Sec: 22 Twp: 23N Rge: 11W County: MAJOR
SPOT LOCATION: ☐ NW ☐ NE ☐ NE ☐ NE FEET FROM QUARTER: FROM NORTH FROM EAST
SECTION LINES: 200 400

Lease Name: MCCOLLUM 2311 Well No: 1-22H 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

JEFFREY MCCOLLUM & DIANE MCCOLLUM
67414 ALINE RD.
HELENA OK 73741

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

	Name	Depth	Name	Depth
1	WOODFORD	7452	6	
2			7	
3			8	
4			9	
5			10	

Spacing Orders: 615776

Location Exception Orders: 616158

Increased Density Orders:

Pending CD Numbers:

Special Orders:

Total Depth: 13005

Ground Elevation: 1363

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

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

D. One time land application -- (REQUIRES PERMIT)
H. SEE MEMO

PERMIT NO: 13-24090

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.

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 22 Twp 23N Rge 11W County MAJOR

Spot Location of End Point: SE SW SE SE

Feet From: SOUTH 1/4 Section Line: 200

Feet From: EAST 1/4 Section Line: 800

Depth of Deviation: 6966

Radius of Turn: 890

Direction: 185

Total Length: 4641

Measured Total Depth: 13005

True Vertical Depth: 7543

End Point Location from Lease,
Unit, or Property Line: 200

Notes:

Category

Description

DEEP SURFACE CASING

8/20/2013 - G71 - APPROVED; NOTIFY OCC FIELD INSPECTOR IMMEDIATELY FOR ANY LOSS OF CIRCULATION OR FAILURE TO CIRCULATE CEMENT TO SURFACE ON CONDUCTOR OR SURFACE CASING

LOCATION EXCEPTION - 616158

12/26/2013 - G75 - (I.O.) 22-23N-11W
X615776 WDFD
COMPL. INT. NCT 300 FNL, NCT 300 FSL, NCT 560 FEL
SANDRIDGE EXPLOR. & PROD., LLC
9-20-2013

MEMO

12/26/2013 - G71 - PIT 1 & 2 - CLOSED SYSTEM=STEEL PITS PER OPERATOR REQUEST; PIT 2 - OBM TO VENDOR, OBM CUTTINGS PER DISTRICT

SPACING - 615776

12/26/2013 - G75 - (640)(HOR) 22-23N-11W
EST WDFD, OTHER
COMPL. INT. NLT 330' FB
9-12-2013

This permit does not address the right of entry or settlement of surface damages.

093 24977 MCCOLLUM 2311 1-22H

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.