

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

API NUMBER: 047 24840

Approval Date: 04/21/2014
Expiration Date: 10/21/2014

Horizontal Hole Oil & Gas

PERMIT TO DRILL

WELL LOCATION: Sec: 06 Twp: 23N Rge: 7W County: GARFIELD
SPOT LOCATION: SW SW SE SE FEET FROM QUARTER: FROM SOUTH FROM EAST
SECTION LINES: 200 1090

Lease Name: KROEKER 2307 Well No: 1-6H 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

CHRISTIAN J. DETTLE & CAROLYN M. DETTLE
P.O. BOX 564
NOWATA OK 74048

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

Name	Depth	Name	Depth
1	MISSISSIPPIAN	6321	6
2			7
3			8
4			9
5			10

Spacing Orders: No Spacing

Location Exception Orders:

Increased Density Orders:

Pending CD Numbers: 201402076
201402077

Special Orders:

Total Depth: 11902 Ground Elevation: 1372 **Surface Casing: 1500** Depth to base of Treatable Water-Bearing FM: 50

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: CEDAR HILLS

D. One time land application -- (REQUIRES PERMIT) PERMIT NO: 14-26881
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 06 Twp 23N Rge 7W County GARFIELD

Spot Location of End Point: N2 N2 NE NE

Feet From: NORTH 1/4 Section Line: 150

Feet From: EAST 1/4 Section Line: 660

Depth of Deviation: 5774

Radius of Turn: 890

Direction: 5

Total Length: 4730

Measured Total Depth: 11902

True Vertical Depth: 6351

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

Notes:

Category	Description
DEEP SURFACE CASING	4/11/2014 - 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 - 201402076	4/21/2014 - G75 - (640)(HOR) 6-23N-7W EST OTHER EXT 614136 MSSP POE TO BHL NLT 660' FB (SUPERSEDE SP. ORDER # 192208 MISS; COEXIST WITH PRODUCING NON-HORIZONTAL SPACING UNITS) ** REC 4-14-2014 (LEAVITT)
PENDING CD - 201402077	** S/B SUPERSEDE SP. ORDER # 192208 MISS & ORDER # 220762 CSTR; TO BE CORRECTED IN ORDER SUBMITTED TO OCC PER ATTORNEY FOR OPERATOR 4/21/2014 - G75 - (I.O.) 6-23N-7W X201402076 MSSP COMPL. INT. NCT 150 FSL, NCT 150 FNL, NCT 560 FEL NO OP. NAMED REC 4-14-2014 (LEAVITT)