

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

API NUMBER: 047 24950

Approval Date: 10/16/2014

Expiration Date: 04/16/2015

Horizontal Hole Oil & Gas

PERMIT TO DRILL

WELL LOCATION: Sec: 22 Twp: 24N Rge: 7W

County: GARFIELD

SPOT LOCATION: ☐ NW ☐ NE ☐ NE ☐ NE

FEET FROM QUARTER: FROM NORTH FROM EAST

SECTION LINES: 210 500

Lease Name: CARLSON TRUST 2407

Well No: 3-15H

Well will be 210 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

RICHARD GRAY & LOIS GRAY
BOX 283
KREMLIN OK 73753

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

Name	Depth	Name	Depth
1	MISSISSIPPIAN	5892	6
2			7
3			8
4			9
5			10

Spacing Orders: 624289

Location Exception Orders: 630890

Increased Density Orders: 628895

Pending CD Numbers:

Special Orders:

Total Depth: 12178

Ground Elevation: 1210

Surface Casing: 1500

Depth to base of Treatable Water-Bearing FM: 540

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: SALT PLAINS

D. One time land application -- (REQUIRES PERMIT) PERMIT NO: 14-28611

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 15 Twp 24N Rge 7W County GARFIELD

Spot Location of End Point: N2 N2 NW NE

Feet From: NORTH 1/4 Section Line: 150

Feet From: EAST 1/4 Section Line: 1980

Depth of Deviation: 5449

Radius of Turn: 890

Direction: 345

Total Length: 5331

Measured Total Depth: 12178

True Vertical Depth: 6026

End Point Location from Lease,

Unit, or Property Line: 150

Notes:

Category

Description

DEEP SURFACE CASING

10/9/2014 - G71 - APPROVED; NOTIFY OCC FIELD INSPECTOR IMMEDIATELY FOR ANY LOSS OF CIRCULATION OR FAILURE TO CIRCULATE CEMENT TO SURFACE ON CONDUCTOR OR SURFACE CASING

INCREASED DENSITY - 628895

10/16/2014 - G75 - 15-24N-7W
X624289 MSSP
3 WELLS
SANDRIDGE EXPLOR. & PROD., L.L.C.
8-6-2014

LOCATION EXCEPTION - 630890

10/16/2014 - G75 - (I.O.) 15-24N-7W
X624289 MSSP
COMPL. INT. NCT 150 FSL, NCT 150 FNL, NCT 660 FEL
SANDRIDGE EXPLOR. & PROD., L.L.C.
9-19-2014

SPACING - 624289

10/16/2014 - G75 - (640)(HOR) 15-24N-7W
EXT 609184 MSSP
POE TO BHL NLT 660' FB
(SUPERSEDE SP. ORDER # 507251 MSSLM)

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047 24950 CARLSON TRUST 2407 3-15H