

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

API NUMBER: 047 24968

Approval Date: 11/26/2014
Expiration Date: 05/26/2015

Horizontal Hole Oil & Gas

PERMIT TO DRILL

WELL LOCATION: Sec: 03 Twp: 24N Rge: 7W County: GARFIELD
SPOT LOCATION: SE SE SE SE FEET FROM QUARTER: FROM SOUTH FROM EAST
SECTION LINES: 300 300

Lease Name: HARMON 2407 Well No: 2-3H Well will be 300 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

RAMON A. HAYES & SANDRA HAYES
2826 SCISSORTAIL LN.
ENID OK 73703

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

Name	Depth	Name	Depth
1 MISSISSIPPIAN	5767	6	
2		7	
3		8	
4		9	
5		10	

Spacing Orders: 613459

Location Exception Orders:

Increased Density Orders: 629971

Pending CD Numbers: 201407354

Special Orders:

Total Depth: 12193

Ground Elevation: 1144

Surface Casing: 1500

Depth to base of Treatable Water-Bearing FM: 420

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: 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: KINGMAN

Approved Method for disposal of Drilling Fluids:

- D. One time land application -- (REQUIRES PERMIT) PERMIT NO: 14-28830
- 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 03 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: 5304

Radius of Turn: 890

Direction: 340

Total Length: 4926

Measured Total Depth: 11628

True Vertical Depth: 5881

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

HORIZONTAL HOLE 2

Sec 03 Twp 24N 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: 5304

Radius of Turn: 890

Direction: 355

Total Length: 4629

Measured Total Depth: 11331

True Vertical Depth: 5881

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

HORIZONTAL HOLE 3

Sec 03 Twp 24N Rge 7W County GARFIELD

Spot Location of End Point: N2 N2 NE NW

Feet From: NORTH 1/4 Section Line: 150

Feet From: WEST 1/4 Section Line: 1980

Depth of Deviation: 5304

Radius of Turn: 890

Direction: 330

Total Length: 5491

Measured Total Depth: 12193

True Vertical Depth: 5881

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

Notes:

Category

Description

DEEP SURFACE CASING

11/10/2014 - G71 - APPROVED; NOTIFY OCC FIELD INSPECTOR IMMEDIATELY FOR ANY LOSS OF CIRCULATION OR FAILURE TO CIRCULATE CEMENT TO SURFACE ON CONDUCTOR OR SURFACE CASING

Category	Description
INCREASED DENSITY - 629971	11/26/2014 - G75 - 3-24N-7W X613459 MSSP 3 WELLS SANDRIDGE EXPLOR. & PROD., L.L.C. 9-2-2014
PENDING CD - 201407354	11/26/2014 - G75 - (I.O.) 3-24N-7W X613459 MSSP COMPL. INT. (LAT 1) NCT 150 FSL, NCT 150 FNL, NCT 1880 FEL COMPL. INT. (LAT 2) NCT 150 FSL, NCT 150 FNL, NCT 560 FEL COMPL. INT. (LAT 3) NCT 150 FSL, NCT 150 FNL, NCT 1880 FWL NO OP. NAMED REC 10-27-2014 (STUCK)
SPACING - 613459	11/26/2014 - G75 - (640)(HOR) 3-24N-7W EST MSSP, OTHER POE TO BHL NLT 660' FB (SUPERSEDE SP. ORDER # 79059 MSSLM)

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