

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

API NUMBER: 047 24851

Approval Date: 05/06/2014
Expiration Date: 11/06/2014

Horizontal Hole Oil & Gas

PERMIT TO DRILL

WELL LOCATION: Sec: 27 Twp: 24N Rge: 7W County: GARFIELD
SPOT LOCATION: NW NW NE NE FEET FROM QUARTER: FROM NORTH FROM EAST
SECTION LINES: 275 1020

Lease Name: RG 2407 Well No: 4-22H 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

DORIS JACQULYNE SMITH
4613 W. WILLOW RD. #115
ENID OK 73750

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

Name	Depth	Name	Depth
1	MISSISSIPPIAN	5917	6
2			7
3			8
4			9
5			10

Spacing Orders: 609184 Location Exception Orders: 622350 Increased Density Orders: 622431

Pending CD Numbers: Special Orders:

Total Depth: 12125 Ground Elevation: 1224 **Surface Casing: 1500** Depth to base of Treatable Water-Bearing FM: 580

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: SALT PLAINS

Approved Method for disposal of Drilling Fluids:

D. One time land application -- (REQUIRES PERMIT) PERMIT NO: 14-26988
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 22 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: 5457

Radius of Turn: 890

Direction: 350

Total Length: 5270

Measured Total Depth: 12125

True Vertical Depth: 6034

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

Notes:

Category	Description
DEEP SURFACE CASING	4/25/2014 - 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 - 622431	5/5/2014 - G75 - 22-24N-7W X609184 MSSP 1 WELL SANDRIDGE EXPLOR. & PROD., L.L.C. 3-10-2014
LOCATION EXCEPTION - 622350	5/5/2014 - G75 - (I.O.) 22-24N-7W X609184 MSSP COMPL. INT. NCT 165 FSL, NCT 165 FNL, NCT 900 FEL SANDRIDGE EXPLOR. & PROD., L.L.C. 3-7-2014
SPACING - 609184	5/5/2014 - G75 - (640)(HOR) 22-24N-7W EST MSSP POE TO BHL NLT 660' FB (SUPERSEDE SP. ORDER # 359121 MSSLM, MRMOG SE4; COEXIST WITH SP. ORDER # 384025 MSSLM, MRMOG, CAROL 1A-22, API 047-23047, SW4)

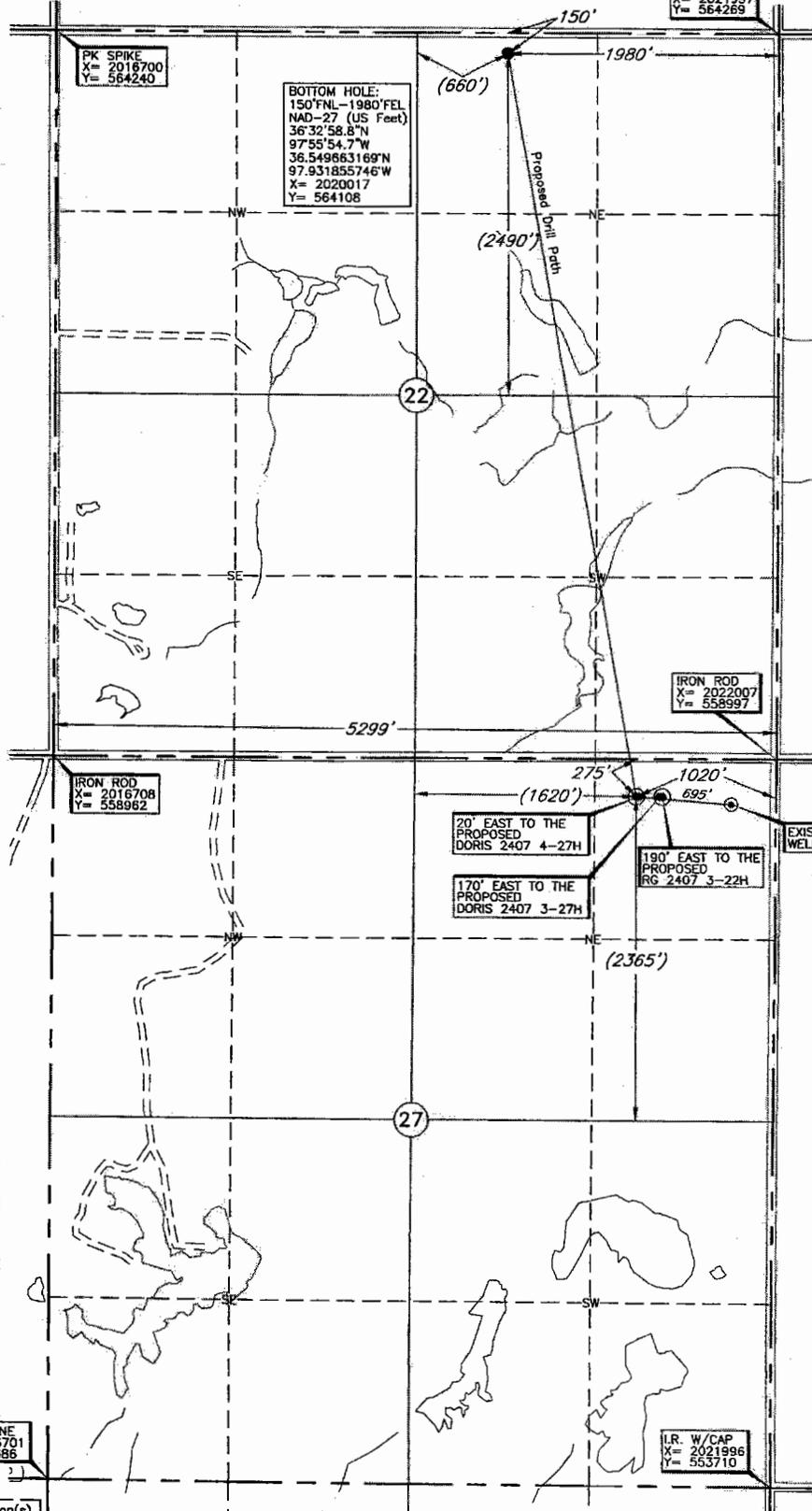
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API 047-24851

GARFIELD County, Oklahoma
 275° FNL-1020° FEL Section 27 Township 24N Range 7W I.M.

GRID
 NAD-27
 OKSg North
 USg Feet
 Scale: 1" = 1000'

Bottom Hole and Drill Path Information:
 Distances shown in parentheses are calculated based upon the Quarter Section being 760 feet, those shown in brackets are calculated based upon the corner coordinates and have NOT been measured on the ground.



Operator: SANDRIDGE EXPLORATION & PRODUCTION, LLC
Lease Name: RG 2407
Topography & Vegetation: Loc. fall in sloped, plowed field.
Good Drill Site? Yes
Reference Stakes or Alternate Location: Stakes Set None
Best Accessibility to Location: From North off County Road.
Distance & Direction from Hwy Jct or Town: From the Jct. of US Hwy. 81 N-E & Kremlin-Hillsdale Road, go ±3.0 mi. West, then ±1.0 mi. South to the NE Corner of Section 27-124N-R7W.

Well No.: 4-22H
ELEVATION: 1224' Gr. of Stake
GLO STONE: X=2016701, Y=553686

A boundary survey of the said section(s) shown hereon was not performed per the request of the operator shown hereon.

DATUM: NAD-27
LAT: 36°32'05.5\"/>

Date of Drawing: Oct. 7, 2013
 Invoice # 209336A Date Staked: Oct. 4, 2013 SM

CERTIFICATE:
 I, Lee K. Goss, a Oklahoma Licensed Land Surveyor and an authorized agent of Topographic Land Surveyors of Oklahoma, do hereby certify that the above described well location was surveyed and staked on the ground as shown herein.
 Oklahoma Lic. No. 1778

