

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

API NUMBER: 049 25133

Approval Date: 05/31/2017  
Expiration Date: 11/30/2017

Horizontal Hole Oil & Gas

PERMIT TO DRILL

WELL LOCATION: Sec: 16 Twp: 3N Rge: 3W County: GARVIN  
SPOT LOCATION: SE SE SE SE FEET FROM QUARTER: FROM SOUTH FROM EAST  
SECTION LINES: 255 265

Lease Name: KAY Well No: 1-16H Well will be 255 feet from nearest unit or lease boundary.  
Operator Name: RED ROCKS OIL & GAS OPERATING LLC Telephone: 4056003065 OTC/OCC Number: 22649 0

RED ROCKS OIL & GAS OPERATING LLC  
1141 N ROBINSON AVE STE 301  
OKLAHOMA CITY, OK 73103-4919

ED AND VICI KAY  
18464 EAST COUNTY ROAD 1570  
LINDSAY OK 73052

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

Name	Depth	Name	Depth
1 WOODFORD	9420	6	
2		7	
3		8	
4		9	
5		10	

Spacing Orders: 655157

Location Exception Orders:

Increased Density Orders:

Pending CD Numbers:

Special Orders:

Total Depth: 14761

Ground Elevation: 990

**Surface Casing: 1500**

Depth to base of Treatable Water-Bearing FM: 220

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: 5000 Average: 3000

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: PURCELL

Approved Method for disposal of Drilling Fluids:

D. One time land application -- (REQUIRES PERMIT)

PERMIT NO: 17-32609

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 16 Twp 3N Rge 3W County GARVIN

Spot Location of End Point: N2 NE NE NE

Feet From: NORTH 1/4 Section Line: 165

Feet From: EAST 1/4 Section Line: 330

Depth of Deviation: 9206

Radius of Turn: 423

Direction: 359

Total Length: 4891

Measured Total Depth: 14761

True Vertical Depth: 9505

End Point Location from Lease,  
Unit, or Property Line: 165

Notes:

Category	Description
DEEP SURFACE CASING	5/19/2017 - G71 - APPROVED; NOTIFY OCC FIELD INSPECTOR IMMEDIATELY OF ANY LOSS OF CIRCULATION OR FAILURE TO CIRCULATE CEMENT TO SURFACE ON ANY CONDUCTOR OR SURFACE CASING
HYDRAULIC FRACTURING	5/19/2017 - G71 - OCC 165:10-3-10 REQUIRES: 1) THE CHEMICAL DISCLOSURE OF HYDRAULIC FRACTURING INGREDIENTS FOR ALL WELLS BE REPORTED TO FRACFOCUS USING THE FOLLOWING LINK <a href="http://fracfocus.org/">HTTP://FRACFOCUS.ORG/</a> WITH NOTICE GIVEN 48 HOURS IN ADVANCE OF FRACTURING TO THE LOCAL OCC DISTRICT OFFICE; AND, 2) PRIOR TO COMMENCEMENT OF FRACTURING OPERATIONS FOR HORIZONTAL WELLS, NOTICE ALSO GIVEN FIVE BUSINESS DAYS IN ADVANCE TO OFFSET OPERATORS WITH WELLS COMPLETED IN THE SAME COMMON SOURCE OF SUPPLY WITHIN 1/2 MILE
SPACING - 655157	5/31/2017 - G64 - (640)(HOR) 16-3N-3W VAC OTHERS EXT 645746 WDFD EST OTHERS POE TO BHL NCT 165' FNL & FSL, NCT 330' FEL & FWL
SURFACE CASING	5/19/2017 - G71 - MIN. 300' PER ORDER 24997

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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.

**TOPOGRAPHIC LAND SURVEYORS OF OKLAHOMA**

6709 NORTH CLASSEN BLVD., OKLA. CITY, OKLA. 73116 \* LOCAL (405) 843-4847 \* OUT OF STATE (800) 654-3219

Certificate of Authorization No. 1293 LS

GARVIN

County, Oklahoma

255° FSL - 265° FEL Section 16 Township 3N Range 3W I.M.

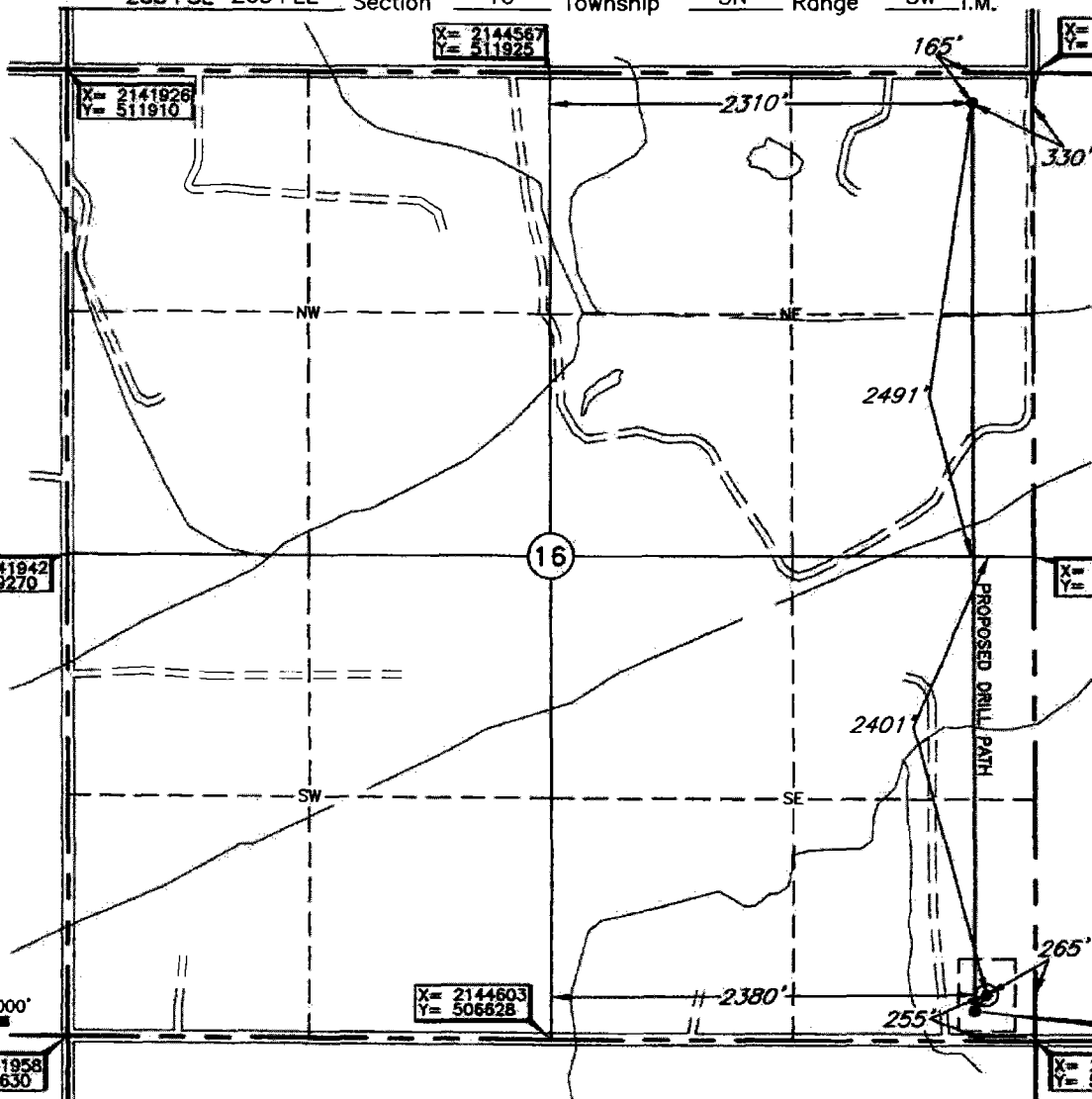
X= 2144567  
Y= 511925

X= 2147206  
Y= 511940

X= 2141926  
Y= 511910

**BOTTOM HOLE**  
165° FSL - 330° FEL  
NAD-27 (US Feet)  
34° 44' 19.2" N  
97° 30' 40.0" W  
34.738665701° N  
97.511121216° W  
X= 2146877  
Y= 511773

**NOTE:**  
The information shown herein is for construction purposes **ONLY**.



X= 2141942  
Y= 509270

X= 2147227  
Y= 509283

**SURFACE HOLE**  
255° FSL - 265° FEL  
NAD-83  
34.72530115° N  
97.51116107° W

**LANDING POINT**  
165° FSL - 330° FEL  
NAD-27 (US Feet)  
34° 43' 29.9" N  
97° 30' 39.8" W  
34.724976148° N  
97.511068528° W  
X= 2146917  
Y= 506791

X= 2144603  
Y= 506628

X= 2141958  
Y= 506630

X= 2147249  
Y= 506626

LANDING POINT, BOTTOM HOLE, AND DRILL PATH INFORMATION PROVIDED BY OPERATOR LISTED, NOT SURVEYED.

**ELEVATION:**  
990' Gr. at Stake NGVD29  
990' Gr. at Stake NAVD88

Operator: RED ROCK OIL & GAS OPERATING, LLC

Lease Name: KAY

Well No.: 1-16H

Topography & Vegetation Loc. fell in trees and old work site, ±229' North of E-W fence.; ±205' SW of NW-SE powerline

Good Drill Site? Yes Reference Stakes or Alternate Location Stakes Set None

Best Accessibility to Location From South off County Road.

Distance & Direction from Hwy Jct or Town From Antioch, OK, go West ±6 miles to the SE Corner of Sec. 16-T3N-R3W.

Revision  A Date of Drawing: Apr. 17, 2017  
Invoice # 269991 Date Staked: Apr. 6, 2017 TR

This information was gathered with a GPS receiver with ±1 foot Horiz./Vert. accuracy  
DATUM: NAD-27  
LAT: 34° 43' 30.8" N  
LONG: 97° 30' 39.1" W  
LAT: 34.725222459° N  
LONG: 97.510853645° W  
STATE PLANE COORDINATES: (US Feet)  
ZONE: OK SOUTH  
X: 2146981  
Y: 506881

**CERTIFICATE:**

I, Lee K. Goss an Oklahoma Licensed Land Surveyor and an authorized agent of Topographic Land Surveyors of Oklahoma, do hereby certify to the information shown herein

*Lee K. Goss*  
Oklahoma Lic. No. 1778

