

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

API NUMBER: 051 24133

Approval Date: 04/25/2017  
Expiration Date: 10/25/2017

Directional Hole Oil & Gas

PERMIT TO DRILL

WELL LOCATION: Sec: 22 Twp: 5N Rge: 5W County: GRADY  
SPOT LOCATION:  SW  NE  SW  NE FEET FROM QUARTER: FROM SOUTH FROM WEST  
SECTION LINES: 725 979

Lease Name: BROWN Well No: 2-22 Well will be 725 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

IRA J. MANN JR. & CLAUDIA L. MANN  
P.O. BOX 65  
BRADLEY OK 73011

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

Name	Depth	Name	Depth
1 SYCAMORE	10825	6 MCLISH	13190
2 HUNTON	11140	7 OIL CREEK	13260
3 VIOLA	11875	8	
4 BROMIDE	12500	9	
5 TULIP CREEK	12760	10	

Spacing Orders: 145869  
57819  
54504  
362318

Location Exception Orders:

Increased Density Orders:

Pending CD Numbers: 201702197  
201702198  
201702199

Special Orders:

Total Depth: 14210 Ground Elevation: 1012 **Surface Casing: 1000** Depth to base of Treatable Water-Bearing FM: 140

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 ALLUVIAL

Pit Location Formation: ALLUVIUM

Approved Method for disposal of Drilling Fluids:

D. One time land application -- (REQUIRES PERMIT) PERMIT NO: 17-32431  
H. CLOSED SYSTEM=STEEL PITS (REQUIRED - WASHITA RIVER)

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.

DIRECTIONAL HOLE 1

Sec 22 Twp 5N Rge 5W County GRADY

Spot Location of End Point: NW SE NE SE

Feet From: NORTH 1/4 Section Line: 662

Feet From: EAST 1/4 Section Line: 500

Measured Total Depth: 14210

True Vertical Depth: 13865

End Point Location from Lease,

Unit, or Property Line: 500

Notes:

Category	Description
BOTTOM-HOLE LOCATION	4/25/2017 - G75 - 662' FNL, 500' FEL SE4 22-5N-5W PER STAKING PLAT
DEEP SURFACE CASING	4/24/2017 - G71 - APPROVED; NOTIFY OCC FIELD INSPECTOR IMMEDIATELY FOR ANY LOSS OF CIRCULATION OR FAILURE TO CIRCULATE CEMENT TO SURFACE ON CONDUCTOR OR SURFACE CASING
HYDRAULIC FRACTURING	4/24/2017 - 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
PENDING CD - 201702197	4/24/2017 - G75 - (E.O.)(160) SE4 22-5N-5W EXT 563225 SCMR (COEXIST SP. ORDER # 662769 MSSP) RED ROCKS OIL & GAS OP., LLC REC 4-24-2017 (DECKER BY INITIALS)
PENDING CD - 201702198	4/24/2017 - G75 - (E.O.) SE4 22-5N-5W X57819 TPCK X362318 HNTN 1 WELL NO OP. NAMED REC 4-24-2017 (DECKER BY INITIALS)
PENDING CD - 201702199	4/24/2017 - G75 - (E.O.) 22-5N-5W X54504 BRMD X57819 TPCK X145869 VIOL, MCLS, OLCK X362318 HNTN X201702197 SCMR SHL 725' FSL, 979' FWL NE4 BHL NCT 400' FNL, NCT 400' FEL SE4 NO OP. NAMED REC 4-24-2017 (DECKER BY INITIALS)
SPACING - 145869	4/24/2017 - G75 - (160) 22-5N-5W EXT 109322 VIOL, MCLS EXT 109324 OLCK EST OTHER
SPACING - 362318	4/24/2017 - G75 - (160) SE4 22-5N-5W EXT 165069 HNTN
SPACING - 54504	4/24/2017 - G75 - (160) 22-5N-5W VAC 29404/33145 BRMD EST BRMD
SPACING - 57819	4/24/2017 - G75 - (160) 22-5N-5W EST TPCK

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**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

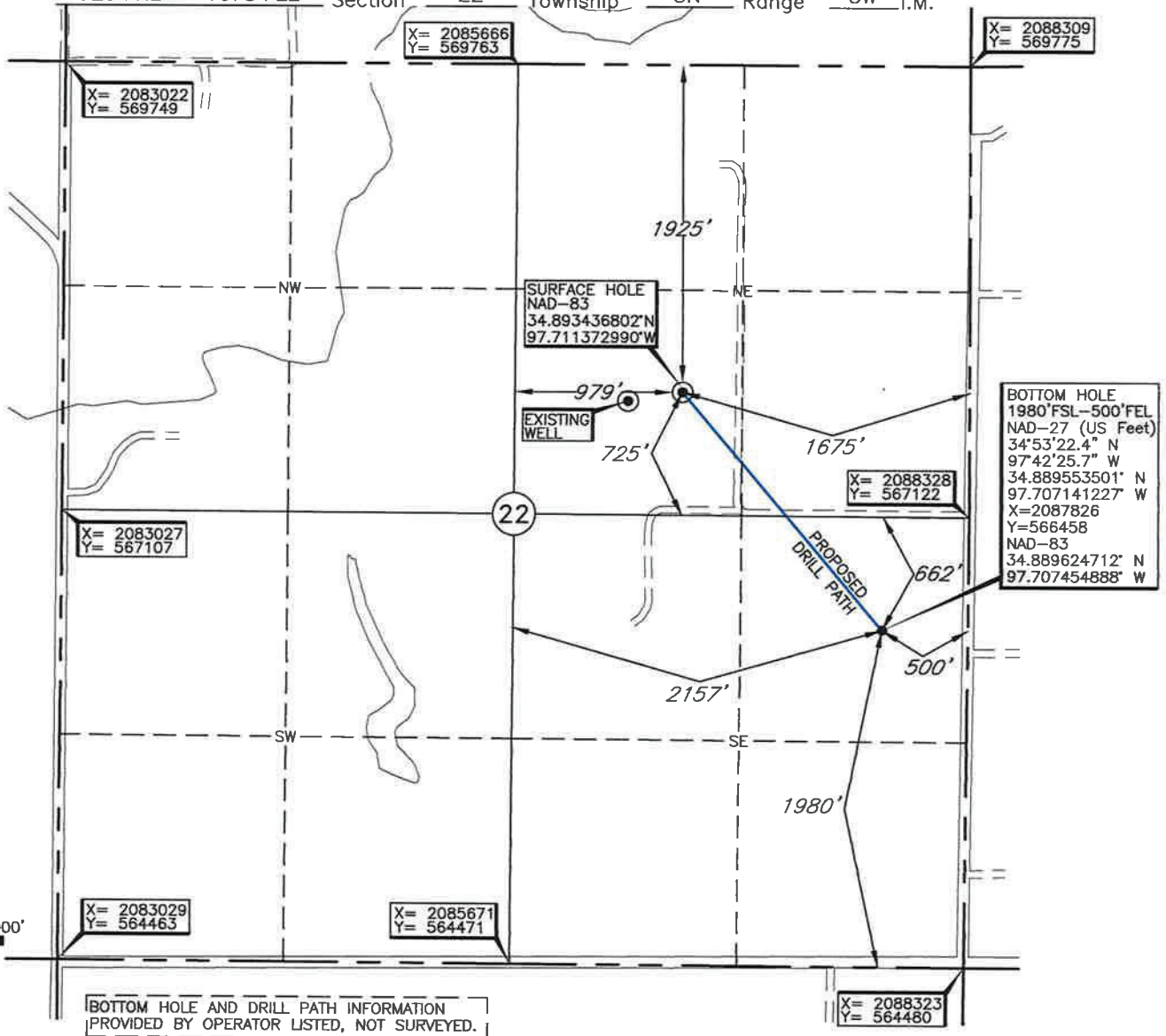
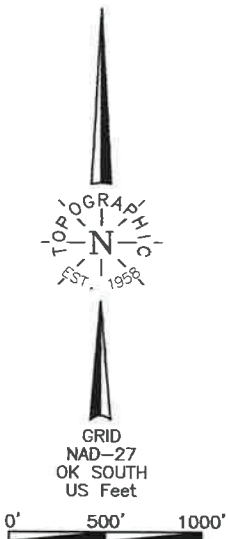
GRADY

County, Oklahoma

API 051-24133

1925'FNL - 1675'FEL Section 22 Township 5N Range 5W I.M.

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



Operator: RED ROCK OIL & GAS OPERATING, LLC

Lease Name: BROWN

Well No.: 2-22

Topography & Vegetation Loc. fell on existing pad, ±323' NE of existing well

**ELEVATION:**  
1012' Gr. at level pad NGVD29  
1012' Gr. at level pad NAVD88

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

Best Accessibility to Location From East off lease road

Distance & Direction  
from Hwy Jct or Town From Bradley, OK, go ±0.25 mi. North, then ±0.15 mi. East,  
then ±0.5 mi. North to the E/4 Cor. of Sec. 22-T5N-R5W

This information was gathered with a GPS receiver with ±1 foot Horiz./Vert. accuracy.  
DATUM: NAD-27  
LAT: 34°53'36.1"N  
LONG: 97°42'39.8"W  
LAT: 34.893365728° N  
LONG: 97.711059143° W  
STATE PLANE  
COORDINATES: (US Feet)  
ZONE: OK SOUTH  
X: 2086647  
Y: 567842

Date of Drawing: Apr. 04, 2017  
Invoice # 269990 Date Staked: Apr. 01, 2017 AC

**CERTIFICATE:**

I, Thomas L. Howell an Oklahoma Licensed Land Surveyor and an authorized agent of Topographic Land Surveyors of Oklahoma, do hereby certify to the information shown herein

Thomas L. Howell  
Oklahoma Lic. No. 1433

