

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

API NUMBER: 051 23681

Approval Date: 05/01/2013
Expiration Date: 11/01/2013

Directional Hole Oil & Gas

PERMIT TO DRILL

WELL LOCATION: Sec: 32 Twp: 5N Rge: 5W County: GRADY
SPOT LOCATION: SW NE SW SE FEET FROM QUARTER: FROM SOUTH FROM EAST
SECTION LINES: 750 1770

Lease Name: RIDDLE Well No: 13-32 Well will be 750 feet from nearest unit or lease boundary.

Operator Name: EAGLE ROCK MID-CONTINENT OPERATING LLC Telephone: 2814081200 OTC/OCC Number: 22050 0

EAGLE ROCK MID-CONTINENT OPERATING LLC
PO BOX 2968
HOUSTON, TX 77252-2968

DON & BARBARA MITCHUSSON
P.O. BOX 133
BRADLEY OK 73011

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

	Name	Depth	Name	Depth
1	SYCAMORE	13343	6	
2	WOODFORD	13557	7	
3	HUNTON	13822	8	
4	VIOLA	14371	9	
5	BROMIDE	15447	10	

Spacing Orders: 158232 Location Exception Orders: 604458 Increased Density Orders: 604039

Pending CD Numbers:

Special Orders:

Total Depth: 16300 Ground Elevation: 1150 **Surface Casing: 1050** Depth to base of Treatable Water-Bearing FM: 260

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: DUNCAN

Approved Method for disposal of Drilling Fluids:

D. One time land application -- (REQUIRES PERMIT) PERMIT NO: 13-23232
H. SEE MEMO

DIRECTIONAL HOLE 1

Sec 32 Twp 5N Rge 5W County GRADY

Spot Location of End Point: NE SW SW SE

Feet From: SOUTH 1/4 Section Line: 570

Feet From: EAST 1/4 Section Line: 2025

Measured Total Depth: 16300

True Vertical Depth: 16000

End Point Location from Lease,

Unit, or Property Line: 570

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.

PIT 2 INFORMATION

Type of Pit System: CLOSED Closed System Means Steel Pits

Type of Mud System: OIL BASED

Chlorides Max: 300000 Average: 200000

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: DUNCAN

Notes:

Category	Description
DEEP SURFACE CASING	4/29/2013 - 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 - 604039	4/30/2013 - G75 - 32-5N-5W X158232 SCMR, WDFD, HNTN, VIOL, BRMD, OTHER 3 WELLS EAGLE ROCK MID-CONT. OP., LLC 11-9-2012
LOCATION EXCEPTION - 604458	4/30/2013 - G75 - (I.O.) 32-5N-5W X158232 SCMR, WDFD, HNTN, VIOL, BRMD, OTHER SHL NCT 660 TO SL, NCT 1500 TO EL COMPL. INT. NCT 570 TO SL, NCT 1500 TO EL EAGLE ROCK MID-CONT. OP., LLC 11-21-2012
MEMO	5/1/2013 - G75 - PIT 1 & 2 - CLOSED SYSTEM=STEEL PITS PER OPERATOR REQUEST; PIT 2 - OBM TO VENDOR, OBM CUTTINGS PER DISTRICT
SPACING - 158232	4/30/2013 - G75 - (640) 32-5N-5W VAC 29201 SMPSU, SMPSL VAC OTHER EXT OTHERS EXT 47484 BRMD EXT 134400 TPCK (VAC BY 240020), OTHERS EXT 94778 SCMR, WDFD, HNTN, VIOL

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.

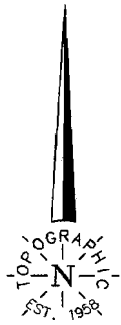
API
 051-23681

GRADY County, Oklahoma

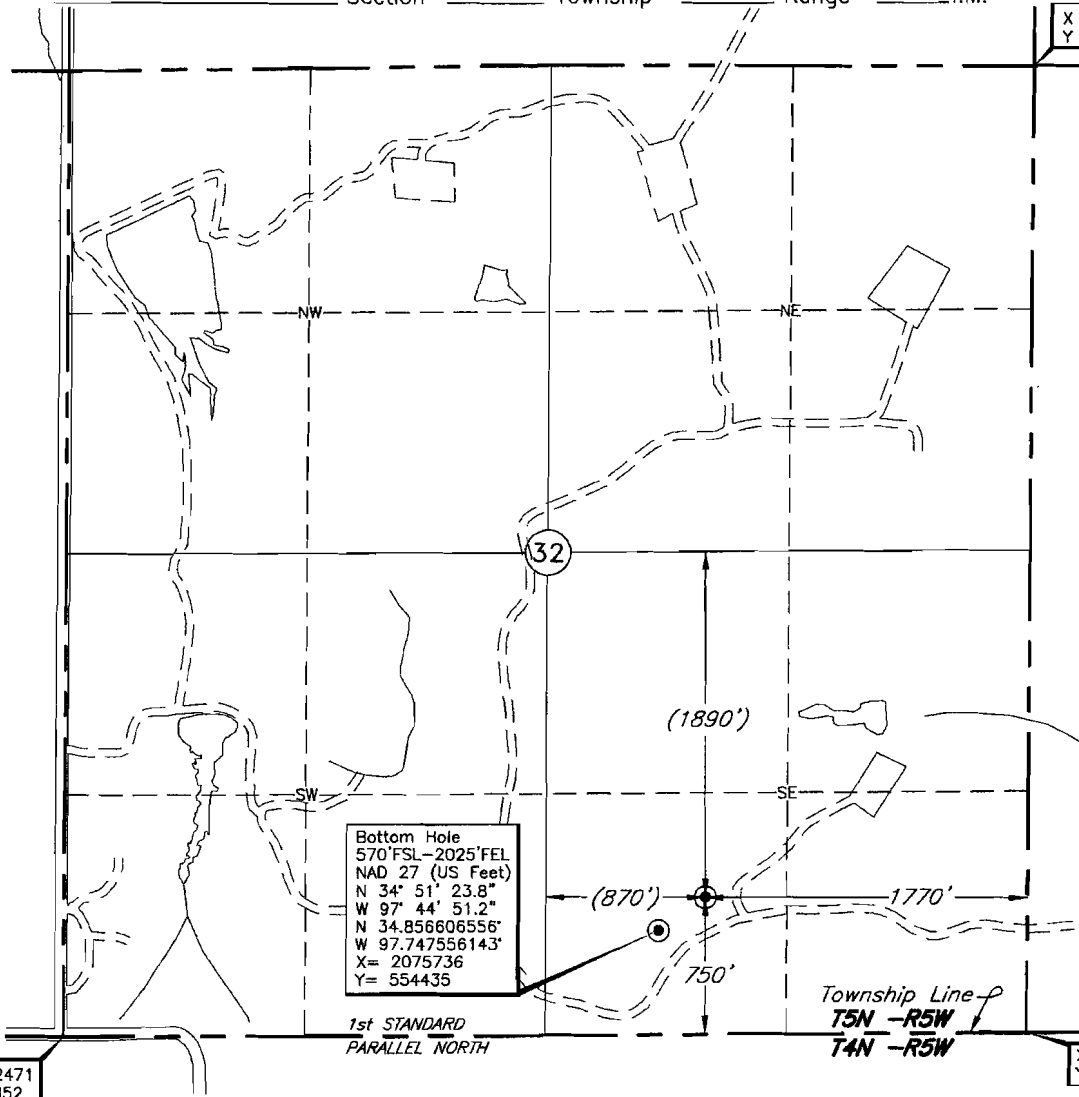
750'FSL-1770'FEL Section 32 Township 5N Range 5W I.M.

X 2077772
 Y 559160

BOTTOMHOLE INFORMATION PROVIDED BY OPERATOR LISTED, NOT SURVEYED. BEARING AND/OR DISTANCE TO BOTTOMHOLE ARE CALCULATED. CORNER COORDINATES ARE TAKEN FROM POINTS SURVEYED IN THE FIELD.



GRID Scale: 1" = 1000'



Bottom Hole
 570'FSL-2025'FEL
 NAD 27 (US Feet)
 N 34° 51' 23.8"
 W 97° 44' 51.2"
 N 34.856606556°
 W 97.747556143°
 X= 2075736
 Y= 554435

X 2072471
 Y 553852

X 2077760
 Y 553873

Distances shown in (parenthesis) are calculated based upon the Quarter Section being 2640 feet, those shown in [brackets] are based on GLO (General Land Office) distances and have NOT been measured on the ground.

Operator: EAGLE ROCK MID-CONTINENT OPERATING, LLC
 Lease Name: RIDDLE Well No.: 13-32 **ELEVATION:** 1150' Gr. at Stake
 Topography & Vegetation Loc. fell in heavy brush at start of drain running North, the drain gets deeper to the North
 Good Drill Site? Fair, Alt. Loc.- Yes Reference Stakes or Alternate Location Stakes Set None
 Best Accessibility to Location From lease road South of location.
 Distance & Direction From Jct. of St. Hwy. 19 and Grady and Garvin County Line, go ±2.25 mi. NW on St. Hwy. 19, then ±1.5 mi. South, then ±2.0 mi. West to the SE Corner of Section 32, T5N-R5W.

This information was gathered with a GPS receiver with Sub-Meter accuracy.
 DATUM: NAD-27
 LAT: 34°51'25.6"N
 LONG: 97°44'48.1"W
 LAT: 34.857101672°
 LONG: 97.746702478°
 STATE PLANE
 COORDINATES: (US Feet)
 ZONE: OK SOUTH
 X: 2075992
 Y: 554616

Date of Drawing: Jul. 20, 2012
 Invoice # 186486 Date Staked: Jul. 19, 2012 AD

CERTIFICATE:
 I, _____ Surveyor _____ 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. _____ Number _____

SCANNED