

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

API NUMBER: 147 28147

Approval Date: 07/29/2014

Expiration Date: 07/29/2015

Straight Hole Oil & Gas

PERMIT TO DRILL

WELL LOCATION: Sec: 22 Twp: 29N Rge: 12E County: WASHINGTON
SPOT LOCATION: C NE SW NE FEET FROM QUARTER: FROM SOUTH FROM WEST
SECTION LINES: 990 990

Lease Name: **CROSSBELL** Well No: **22-5** Well will be **467** feet from nearest unit or lease boundary.
Operator Name: **BRATCO OPERATING COMPANY INC** Telephone: 9185342322 OTC/OCC Number: 20347 0

BRATCO OPERATING COMPANY INC
PO BOX 279
DEWEY, OK 74029-0279

MULLENDORE CROSSBELL RANCHES
P O BOX 289
COPAN OK 74022

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

Name	Depth	Name	Depth
1 RAMSEY	850	6 ROWE COAL	1680
2 PERU	1100	7 RIVERTON COAL	1700
3 OSWEGO	1200	8 MISSISSIPPI CHAT	1730
4 COAL (PENNSYLVANIAN)	1280	9 MISSISSIPPI LIME	1800
5 BARTLESVILLE	1575	10	

Spacing Orders: No Spacing

Location Exception Orders: _____

Increased Density Orders: _____

Pending CD Numbers:

Special Orders: _____

Total Depth: 2200 Ground Elevation: 951 **Surface Casing: 550** Depth to base of Treatable Water-Bearing FM: 450

Under Federal Jurisdiction: No Fresh Water Supply Well Drilled: No Surface Water used to Drill: No

PIT 1 INFORMATION

Type of Pit System: ON SITE
Type of Mud System: AIR

Approved Method for disposal of Drilling Fluids:

A. Evaporation/dewater and backfilling of reserve pit.

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 **not** located in a Hydrologically Sensitive Area.

Category of Pit: 4

Liner not required for Category: 4

Pit Location is NON HSA

Pit Location Formation: BARNSDALL/VAMOOSA

Mud System Change to Water-Based or Oil-Based Mud Requires an Amended Intent (Form 1000).

Notes:

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.

Category	Description
FRAC FOCUS	7/28/2014 - G71 - THE REQUIREMENT FOR CHEMICAL DISCLOSURE OF HYDRAULIC FRACTURING INGREDIENTS WILL BE EXTENDED TO INCLUDE ALL NON-HORIZONTAL WELLS FOR HYDRAULIC FRACTURING OPERATIONS BEGINNING JANUARY 1, 2014. REFER TO OCC RULE 165:10-3-10 FOR COMPLIANCE REQUIREMENTS. PLEASE REPORT DIRECTLY TO FRACFOCUS USING THE FOLLOWING LINK HTTP://FRACFOCUS.ORG/ OR FOR OCC ASSISTANCE CONTACT DENNIS NISKERN AT 405-522-2977 OR D.NISKERN@OCCEMAIL.COM
SPACING	7/29/2014 - G91 - FORMATIONS UNSPACED; 590-ACRE LEASE (INCLUDING W2 NE4)

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