

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

API NUMBER: 037 29340

Approval Date: 05/18/2016
Expiration Date: 11/18/2016

Straight Hole Oil & Gas

PERMIT TO DRILL

WELL LOCATION: Sec: 10 Twp: 18N Rge: 9E County: CREEK
SPOT LOCATION: NE SW NW SW FEET FROM QUARTER: FROM SOUTH FROM WEST
SECTION LINES: 1740 420

Lease Name: LOWE Well No: 1A Well will be 420 feet from nearest unit or lease boundary.
Operator Name: AOG OPERATING LLC Telephone: 5124976496 OTC/OCC Number: 23059 0

AOG OPERATING LLC
1803 E 17TH ST
TULSA, OK 74104-5304

JOSEPH LOWE, JR.
812 W. 8TH ST.
OKMULGEE OK 74447

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

	Name	Depth	Name	Depth	
1	SKINNER	2000	6	WOODFORD	2900
2	RED FORK	2200	7	VIOLA	2920
3	BARTLESVILLE	2400	8	SIMPSON DOLOMITE	2950
4	BURGESS	2500	9	WILCOX	3000
5	MISSISSIPPI	2550	10	ARBUCKLE	3200

Spacing Orders: No Spacing

Location Exception Orders:

Increased Density Orders:

Pending CD Numbers:

Special Orders:

Total Depth: 3700 Ground Elevation: 845 **Surface Casing: 480** Depth to base of Treatable Water-Bearing FM: 430

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 located in a Hydrologically Sensitive Area.

Category of Pit: 4

Liner not required for Category: 4

Pit Location is BED AQUIFER

Pit Location Formation: BARNSDALL

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
FORMATIONS	5/18/2016 - G60 - FORMATIONS UNSPACED; 160-ACRE LEASE (SW4)
HYDRAULIC FRACTURING	5/18/2016 - 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 HTTP://FRACFOCUS.ORG/ 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.

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.