

API NUMBER: 007 25574 A

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

Approval Date: 12/28/2012
Expiration Date: 06/28/2013

Horizontal Hole Oil & Gas

Amend reason: SHL & BHL

AMEND PERMIT TO DRILL

WELL LOCATION: Section: 08 Township: 3N Range: 23EC County: BEAVER

SPOT LOCATION: SW SE SW SW FEET FROM QUARTER: FROM SOUTH FROM WEST
SECTION LINES: 250 950

Lease Name: LEON SPANGLER Well No: 1-8XLH Well will be 250 feet from nearest unit or lease boundary.
Operator Name: RESOURCE OIL AND GAS LLC Telephone: 4055100306 OTC/OCC Number: 24248 0

RESOURCE OIL AND GAS LLC
701 CEDAR LAKE BLVD #400
OKLAHOMA CITY, OK 73114-7820

LEON SPANGLER
RT 2, BOX 26
BEAVER OK 73932

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

Name	Code	Depth
1 MARMATON	404MRMN	6010

Spacing Orders: 604517

Location Exception Orders: 613772

Increased Density Orders: No Density

Pending CD Numbers: No Pending

Working interest owners' notified: ***

Special Orders: No Special

Total Depth: 15717 Ground Elevation: 2635

Surface Casing: 1664 IP

Depth to base of Treatable Water-Bearing FM: 310

Deep surface casing has been approved

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

Approved Method for disposal of Drilling Fluids:

D. One time land application -- (REQUIRES PERMIT) PERMIT NO: 12-22088
H. (Other) CLOSED SYSTEM=STEEL PITS PER OPERATOR OPTION

PIT 1 INFORMATION

Type of Pit System: CLOSED Closed System Means Steel Pits

Type of Mud System: WATER BASED

Chlorides Max: 60000 Average: 5000

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: OGALLALA

HORIZONTAL HOLE 1

Section: 5 Township: 3N Range: 23E Meridian: CM
County: BEAVER

Spot Location of End Point: SW NE NW NW

Feet From: NORTH 1/4 Section Line: 351

Feet From: WEST 1/4 Section Line: 795

Total Length: 9333

Measured Total Depth: 15717

True Vertical Depth: 6036

End Point Location from
Lease, Unit, or Property Line: 351

NOTES:

This permit does not address the right of entry or settlement of surface damages. The duration of this permit is 18 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
DEEP SURFACE CASING	12/27/2012 - G71 - APPROVED CONTINGENT ON NOTIFYING OCC FIELD STAFF IMMEDIATELY OF ANY LOSS OF CIRCULATION OR FAILURE TO CIRCULATE CEMENT TO SURFACE ON ANY CONDUCTOR OR SURFACE CASING
HYDRAULIC FRACTURING	<p>[2/22/2022 - G56] - OCC 165:10-3-10 REQUIRES:</p> <p>1) NOTICE SHALL BE GIVEN AT LEAST 5 BUSINESS DAYS PRIOR TO COMMENCEMENT OF HYDRAULIC FRACTURING OPERATIONS ON A HORIZONTAL WELL TO OPERATORS PRODUCING WELLS WITHIN 1 MILE OF THE COMPLETION INTERVAL OF THE SUBJECT WELL. THE NOTICE TO SUCH OPERATORS SHALL CONTAIN THE INFORMATION IN FORM 6000NOO. IF THE HYDRAULIC FRACTURING OPERATIONS SCHEDULE CHANGES AFTER NOTICE HAS BEEN PROVIDED, RESULTING IN A DELAY OF OPERATIONS OF MORE THAN 5 DAYS FROM THE INITIAL NOTICE, NEW NOTICE IS REQUIRED TO BE GIVEN;</p> <p>2) NOTICE WILL BE GIVEN TO THE OCC CENTRAL OFFICE AND LOCAL DISTRICT OFFICES AT LEAST 48 HOURS PRIOR TO COMMENCEMENT OF HYDRAULIC FRACTURING OPERATIONS. FORM 6000NHF SHALL BE USED AND IS FOUND AT THIS LINK: OCCEWEB.COM/OG/OGFORMS.HTML; AND,</p> <p>3) THE CHEMICAL DISCLOSURE OF HYDRAULIC FRACTURING INGREDIENTS FOR ALL WELLS IS TO BE REPORTED TO FRACFOCUS WITHIN 60 DAYS AFTER THE CONCLUSION OF HYDRAULIC FRACTURING OPERATIONS, FOUND AT FRACFOCUS.ORG</p>
LOCATION EXCEPTION - 613772	<p>[2/22/2022 - G56] - (F.O.) W2 5 & W2 8-3N-23ECM X604517MRMN SHL 250' FSL, 950' FWL POE 654' FSL, 928' FWL TERMINUS 351' FNL, 795' FWL CABOT OIL & GAS CORP 7/15/2013</p>
SPACING - 604517	<p>2/22/2022 - G56 - (640)(HOR) W2 5 & W2 8-3N-23ECM EXT 601146 MRMN COMPL INT NLT 660' FB</p>

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