

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

API NUMBER: 139 24615 A

Approval Date: 09/03/2014
Expiration Date: 03/03/2015

Directional Hole Oil & Gas

Amend reason: AMEND TO CHANGE THE WELL TO A
DIRECTIONAL HOLE AND REVISE THE BHL.

AMEND PERMIT TO DRILL

WELL LOCATION: Sec: 15 Twp: 2N Rge: 14ECM County: TEXAS

SPOT LOCATION: S2 N2 SE NW FEET FROM QUARTER: FROM SOUTH FROM EAST

SECTION LINES: 680 660

Lease Name: BATHURST

Well No: 15-22

Well will be 660 feet from nearest unit or lease boundary.

Operator CAERUS KANSAS LLC
Name:

Telephone: 3035654600

OTC/OCC Number: 23029 0

CAERUS KANSAS LLC
600 17TH ST STE 1600N
DENVER, CO 80202-5403

ROSE MARY BATHURST
PO BOX 389
BLACKWELL OK 74631

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

	Name	Depth	Name	Depth
1	MARMATON	5209	6	
2	CHEROKEE	5704	7	
3			8	
4			9	
5			10	

Spacing Orders: No Spacing

Location Exception Orders:

Increased Density Orders:

Pending CD Numbers:

Special Orders:

Total Depth: 5864

Ground Elevation: 3177

Surface Casing: 1700

Depth to base of Treatable Water-Bearing FM: 490

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: WATER BASED

Chlorides Max: 8000 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: 1B

Liner required for Category: 1B

Pit Location is BED AQUIFER

Pit Location Formation: OGALLALA

Approved Method for disposal of Drilling Fluids:

A. Evaporation/dewater and backfilling of reserve pit.

H. SOIL COMPACTED PIT, NOTIFY DISTRICT PRIOR TO TESTING SOIL PIT LINER

DIRECTIONAL HOLE 1

Sec 15 Twp 2N Rge 14E County TEXAS

Spot Location of End Point: NE SE SW NW

Feet From: SOUTH 1/4 Section Line: 460

Feet From: WEST 1/4 Section Line: 1100

Measured Total Depth: 5985

True Vertical Depth: 5864

End Point Location from Lease,

Unit, or Property Line: 460

Additional Surface Owner

Address

City, State, Zip

HARRY ELMORE & CHARLENE YVO 1476 N. 13TH STREET

BLACKWELL, OK 74631

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.

Notes:

Category

Description

DEEP SURFACE CASING

9/3/2014 - 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

FRAC FOCUS

7/30/2014 - 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/](http://fracfocus.org/) OR FOR OCC ASSISTANCE CONTACT DENNIS NISKERN AT 405-522-2977 OR D.NISKERN@OCCEMAIL.COM

SPACING

9/3/2014 - G72 - FORMATIONS UNSPACED 160 ACRE LEASE NW/4 (PER OPERATOR)

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