

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

API NUMBER: 129 24043

Approval Date: 01/12/2015  
Expiration Date: 07/12/2015

Horizontal Hole Oil & Gas

PERMIT TO DRILL

WELL LOCATION: Sec: 26 Twp: 17N Rge: 25W County: ROGER MILLS  
SPOT LOCATION:  NE  NE  NE  NW FEET FROM QUARTER: FROM NORTH FROM WEST  
SECTION LINES: 250 2440

Lease Name: CATHERINE Well No: 4H-23 Well will be 250 feet from nearest unit or lease boundary.  
Operator Name: LE NORMAN OPERATING LLC Telephone: 4055481200 OTC/OCC Number: 22738 0

LE NORMAN OPERATING LLC  
4700 GAILLARDIA PKWY STE 200  
OKLAHOMA CITY, OK 73142-1839

TWO D RANCH, L.L.C.  
14200 GAILLARDIA PARKWAY  
OKLAHOMA CITY OK 73142

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

Name	Depth	Name	Depth
1 CLEVELAND	9800	6	
2		7	
3		8	
4		9	
5		10	

Spacing Orders: 606800

Location Exception Orders:

Increased Density Orders: 634825

Pending CD Numbers: 201408526

Special Orders:

Total Depth: 15061

Ground Elevation: 2206

**Surface Casing: 1500**

Depth to base of Treatable Water-Bearing FM: 390

Under Federal Jurisdiction: No

Fresh Water Supply Well Drilled: No

Surface Water used to Drill: Yes

PIT 1 INFORMATION

Type of Pit System: ON SITE

Type of Mud System: WATER BASED

Chlorides Max: 35000 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 AP/TE DEPOSIT

Pit Location Formation: TERRACE

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

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.

HORIZONTAL HOLE 1

Sec 23 Twp 17N Rge 25W County ROGER MILLS

Spot Location of End Point: N2 N2 N2 N2

Feet From: NORTH 1/4 Section Line: 165

Feet From: EAST 1/4 Section Line: 2640

Depth of Deviation: 9220

Radius of Turn: 580

Direction: 1

Total Length: 4930

Measured Total Depth: 15061

True Vertical Depth: 9800

End Point Location from Lease,  
Unit, or Property Line: 165

Notes:

Category	Description
DEEP SURFACE CASING	1/12/2015 - 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
INCREASED DENSITY - 634825	1/12/2015 - G91 - 23-17N-25W X606800 CLVD 1 WELL LE NORMAN OPERATING, LLC 1-6-2015
PENDING CD - 201408526	1/12/2015 - G91 - (I.O.) 23-17N-25W X606800 CLVD SHL 250 FNL 2640 FEL ** COMPL. INT. NCT 165 FSL, NCT 165 FNL, NCT 1320 FEL LE NORMAN OPERATING, LLC REC. 12-8-2014 (OSBURN)
	** SHL TO BE CORRECTED IN FINAL ORDER PER OPERATOR**
SPACING - 606800	1/12/2015 - G91 - (640)(HOR) 23-17N-25W EST CLVD, OTHERS POE TO BHL NLT 660' FB (SUPERSEDE NON-PRODUCING NON-HORIZONTAL SPACING UNITS; COEXIST WITH PRODUCING NON-HORIZONTAL SPACING UNITS)

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