

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

API NUMBER: 045 23476

Approval Date: 05/19/2014

Expiration Date: 11/19/2014

Horizontal Hole Oil & Gas

PERMIT TO DRILL

WELL LOCATION: Sec: 19 Twp: 17N Rge: 23W

County: ELLIS

SPOT LOCATION:

FEET FROM QUARTER: FROM SOUTH FROM EAST

SECTION LINES: 380 2640

Lease Name: JOHN DUNN

Well No: 1H-30

Well will be 380 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 73142-1881

CRIPPLE BEAR LLC  
#1012  
19355 CYPRUS RIDGE TERRACE  
LANDSDOWNE VA 20176

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

Name	Depth	Name	Depth
1 CLEVELAND	9675	6	
2		7	
3		8	
4		9	
5		10	

Spacing Orders: 575223

Location Exception Orders: 624371

Increased Density Orders:

Pending CD Numbers:

Special Orders:

Total Depth: 14829

Ground Elevation: 2311

**Surface Casing: 1500**

Depth to base of Treatable Water-Bearing FM: 660

Under Federal Jurisdiction: No

Fresh Water Supply Well Drilled: No

Surface Water used to Drill: Yes

PIT 1 INFORMATION

Approved Method for disposal of Drilling Fluids:

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 BED AQUIFER

Pit Location Formation: OGALLALA

D. One time land application -- (REQUIRES PERMIT) PERMIT NO: 14-27163  
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 30 Twp 17N Rge 23W County ELLIS

Spot Location of End Point: E2 SE SE SW

Feet From: SOUTH 1/4 Section Line: 330

Feet From: WEST 1/4 Section Line: 2636

Depth of Deviation: 8993

Radius of Turn: 580

Direction: 180

Total Length: 4925

Measured Total Depth: 14829

True Vertical Depth: 9675

End Point Location from Lease,

Unit, or Property Line: 330

## Notes:

### Category

### Description

DEEP SURFACE CASING

5/14/2014 - 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

LOCATION EXCEPTION - 624371

5/19/2014 - G72 - 30-17N-23W (I.O.) X 575223 CLVD;  
SHL 250 FSL 2640 FEL (19-17N-23W)  
COMP INT. NCT 330 FNL NCT 330 FSL NCT 1320 FEL;  
LENORMAN OPERATING LLC;  
4/23/2014

SPACING - 575223

5/19/2014 - G72 - (640) 30-17N-23W  
EST CLVD, OTHERS;

This permit does not address the right of entry or settlement of surface damages.

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045 23476 JOHN DUNN 1H-30