

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

API NUMBER: 045 23570

Approval Date: 03/11/2015  
Expiration Date: 09/11/2015

Horizontal Hole Oil & Gas

PERMIT TO DRILL

WELL LOCATION: Sec: 27 Twp: 17N Rge: 24W County: ELLIS  
SPOT LOCATION:  SW  NE  NE  NE FEET FROM QUARTER: FROM NORTH FROM EAST  
SECTION LINES: 350 560

Lease Name: MISSY Well No: 2H-22 Well will be 350 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

SUSAN E. MILLER - REVOCABLE TRUST  
HCR 63, BOX 47  
ARNETT OK 73832

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

Name	Depth	Name	Depth
1 CLEVELAND	9725	6	
2		7	
3		8	
4		9	
5		10	

Spacing Orders: 217220 Location Exception Orders: 637550 Increased Density Orders: 637234

Pending CD Numbers:

Special Orders:

Total Depth: 15026 Ground Elevation: 2274 Surface Casing: 600 Depth to base of Treatable Water-Bearing FM: 500

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 BED AQUIFER

Pit Location Formation: OGALLALA

Approved Method for disposal of Drilling Fluids:

A. Evaporation/dewater and backfilling of reserve pit.

D. One time land application -- (REQUIRES PERMIT) PERMIT NO: 15-29715

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 22 Twp 17N Rge 24W County ELLIS

Spot Location of End Point: NW NE NE NE

Feet From: NORTH 1/4 Section Line: 165

Feet From: EAST 1/4 Section Line: 560

Depth of Deviation: 9145

Radius of Turn: 579

Direction: 360

Total Length: 4971

Measured Total Depth: 15026

True Vertical Depth: 9725

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

Additional Surface Owner	Address	City, State, Zip
SUSAN E. MILLER - REVOCABLE TR	HCR 63, BOX 47	ARNETT, OK 73832

Notes:

Category

Description

INCREASED DENSITY - 637234

3/11/2015 - G76 - 22-17N-24W  
X217220 CLVD  
1 WELL  
LE NORMAN OP., L.L.L.C.  
3/3/2015

LOCATION EXCEPTION - 637550

3/11/2015 - G76 - (I.O.) 22-17N-24W  
X217220 CLVD  
SHL 250 FNL, 560 FEL 27-17N-24W  
COMPL. INT. 165 FSL, NCT 165 FNL, NCT 560 FEL  
LE NORMAN OP., L.L.L.C.  
3/9/2015

SPACING - 217220

3/11/2015 - G76 - (640) 22-17N-24W  
EXT 138264 CLVD, OTHER