

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

API NUMBER: 045 23406

Approval Date: 10/25/2013
Expiration Date: 04/25/2014

Horizontal Hole Oil & Gas

PERMIT TO DRILL

WELL LOCATION: Sec: 19 Twp: 17N Rge: 24W County: ELLIS
SPOT LOCATION: NE SE SW SE FEET FROM QUARTER: FROM SOUTH FROM EAST
SECTION LINES: 393 1563

Lease Name: MOLLY Well No: 1H-30 Well will be 393 feet from nearest unit or lease boundary.
Operator Name: LE NORMAN OPERATING LLC Telephone: 4055481200 OTC/OCC Number: 22738 0

LE NORMAN OPERATING LLC
4727 GAILLARDIA PKWY STE 200
OKLAHOMA CITY, OK 73142-1881

MICHAEL C. & BRENDA GROSS
H/W, HCR 63, BOX 49
ARNETT OK 73832

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

	Name	Depth	Name	Depth
1	CLEVELAND	9576	6	
2			7	
3			8	
4			9	
5			10	

Spacing Orders: 138264

Location Exception Orders: 616617

Increased Density Orders:

Pending CD Numbers:

Special Orders:

Total Depth: 14670

Ground Elevation: 2049

Surface Casing: 1500

Depth to base of Treatable Water-Bearing FM: 420

Under Federal Jurisdiction: No

Fresh Water Supply Well Drilled: No

Surface Water used to Drill: No

PIT 1 INFORMATION

Approved Method for disposal of Drilling Fluids:

Type of Pit System: CLOSED Closed System Means Steel Pits

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: C

Liner not required for Category: C

Pit Location is ALLUVIAL

Pit Location Formation: ALLUSION

D. One time land application -- (REQUIRES PERMIT) PERMIT NO: 13-24402
H. CLOSED SYSTEM=STEEL PITS REQUIRED - CANADIAN RIVER

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 24W County ELLIS

Spot Location of End Point: E2 SE SW SE

Feet From: SOUTH 1/4 Section Line: 330

Feet From: EAST 1/4 Section Line: 1563

Depth of Deviation: 8996

Radius of Turn: 580

Direction: 360

Total Length: 4763

Measured Total Depth: 14670

True Vertical Depth: 9576

End Point Location from Lease,
Unit, or Property Line: 330

Notes:

Category	Description
DEEP SURFACE CASING	10/24/2013 - 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 - 616617	10/25/2013 - G30 - (I.O.) 30-17N-24W X138264 CLVD SHL NCT 250 FSL, NCT 1320 FEL 19-17N-24W POE NCT 330 FNL, NCT 1320 FEL 30-17N-24W BHL NCT 330 FSL, NCT 1320 FEL 30-17N-24W LE NORMAN OPERATING LLC 10/3/13
SPACING - 138264	10/25/2013 - G30 - (640) 30-17N-24W EXT 131528 CLVD, OTHERS EXT OTHERS

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