

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

API NUMBER: 045 23433 A

Approval Date: 02/10/2014  
Expiration Date: 08/10/2014

Horizontal Hole Oil & Gas

Amend reason: CHANGE SURFACE LOCATION; UPDATE ORDER

AMEND PERMIT TO DRILL

WELL LOCATION: Sec: 36 Twp: 17N Rge: 24W County: ELLIS  
SPOT LOCATION: SE NE SE SE FEET FROM QUARTER: FROM SOUTH FROM EAST  
SECTION LINES: 800 323

Lease Name: DUNN Well No: 1H-1 Well will be 323 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

THOMAS R C BERRYMAN  
P O BOX 787  
ASHLAND KS 67831

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

Name	Depth	Name	Depth
1 CLEVELAND	9750	6	
2		7	
3		8	
4		9	
5		10	

Spacing Orders: 618009

Location Exception Orders:

Increased Density Orders:

Pending CD Numbers: 201306289

Special Orders:

Total Depth: 15171 Ground Elevation: 2222

**Surface Casing: 1500**

Depth to base of Treatable Water-Bearing FM: 590

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.

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 01 Twp 16N Rge 24W County ELLIS

Spot Location of End Point: C S2 SE SW

Feet From: SOUTH 1/4 Section Line: 330

Feet From: WEST 1/4 Section Line: 1980

Depth of Deviation: 8993

Radius of Turn: 580

Direction: 180

Total Length: 5267

Measured Total Depth: 15171

True Vertical Depth: 9750

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

Additional Surface Owner	Address	City, State, Zip
LARRY R DAWSON	HCR 63, BOX 46	ARNETT, OK 73832

Notes:

Category

Description

DEEP SURFACE CASING

2/7/2014 - 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

PENDING CD - 201306289

2/2/2015 - G75 - (I.O.)  
X618009 CLVD, OTHER  
SHL 800 FSL, 323 FEL 36-17N-24W  
COMPL. INT. NCT 165 FNL & NCT 1700 FWL, NCT 1000 FSL & NCT 1800 FWL 1-16N-24W  
NO OP. NAMED  
REC 7-29-2014 (NORRIS)

SPACING - 618009

2/7/2014 - G30 - (640 HOR) 1-16N-24W  
EST CLVD,  
EXT OTHER  
POE TO BHL NLT 660' FB  
(SUPERSEDE NON-PRODUCING NON-HORIZONTAL SPACING UNITS; COEXIST WITH PRODUCING NON-HORIZONTAL SPACING UNITS)