

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

API NUMBER: 045 23568

Approval Date: 02/23/2015
Expiration Date: 08/23/2015

Horizontal Hole Oil & Gas

PERMIT TO DRILL

WELL LOCATION: Sec: 17 Twp: 17N Rge: 24W County: ELLIS
SPOT LOCATION: N2 N2 NW NW FEET FROM QUARTER: FROM NORTH FROM WEST
SECTION LINES: 250 660

Lease Name: MARILYN Well No: 4H-8 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

MICHAEL GROSS
HC 63 BOX 49
ARNETT OK 73832

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

Name	Depth	Name	Depth
1 CLEVELAND	9600	6	
2		7	
3		8	
4		9	
5		10	

Spacing Orders: 181167

Location Exception Orders: 632479

Increased Density Orders: 632478

Pending CD Numbers: 201500337

Special Orders:

Total Depth: 14850

Ground Elevation: 2187

Surface Casing: 1500

Depth to base of Treatable Water-Bearing FM: 330

Under Federal Jurisdiction: No

Fresh Water Supply Well Drilled: No

Surface Water used to Drill: No

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 08 Twp 17N Rge 24W County ELLIS

Spot Location of End Point: N2 N2 NW NW

Feet From: NORTH 1/4 Section Line: 165

Feet From: WEST 1/4 Section Line: 660

Depth of Deviation: 9020

Radius of Turn: 580

Direction: 360

Total Length: 4919

Measured Total Depth: 14850

True Vertical Depth: 9600

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

Notes:

Category	Description
DEEP SURFACE CASING	10/21/2014 - 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
EXCEPTION TO RULE - 201500337	2/23/2015 - G76 - (I.O.) 8-17N-24W X165:10-3-28(C)(2)(B) CLVD (MARILYN 4H-8) NCT 400' FROM MARILYN 2H-8 LE NORMAN OPERATING, L.L.C. REC. 2/17/2015 (P. PORTER)
INCREASED DENSITY - 632478	1/5/2015 - G76 - 8-17N-24W X181167 CLVD 1 WELL LE NORMAN OPERATING, LLC 10/31/2014
LOCATION EXCEPTION - 632479	1/5/2015 - G76 - (I.O.) 8-17N-24W X181167 CLVD SHL 250 FNL, 660 FWL 17-17N-24W COMPL. INT. NCT 165 FSL, NCT 165 FNL, NCT 560 FWL 8-17N-24W LE NORMAN OPERATING, LLC 10/31/2014
SPACING - 181167	1/5/2015 - G76 - (640) 8-17N-24W EXT OTHER EXT 82943/166394 CLVD

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