

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

API NUMBER: 045 23532

Approval Date: 11/07/2014
Expiration Date: 05/07/2015

Horizontal Hole Oil & Gas

PERMIT TO DRILL

WELL LOCATION: Sec: 17 Twp: 17N Rge: 22W County: ELLIS
SPOT LOCATION: N2 N2 NW NE FEET FROM QUARTER: FROM NORTH FROM EAST
SECTION LINES: 250 1980

Lease Name: ELLA MAE Well No: 1H-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 73142-1881

ROGER HABEKOTT
ROUTE 1, BOX 800
MUTUAL OK 73853

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

	Name	Depth	Name	Depth
1	TONKAWA	8000	6	
2			7	
3			8	
4			9	
5			10	

Spacing Orders: 66170 Location Exception Orders: 629938 Increased Density Orders: 630921
62838

Pending CD Numbers:

Special Orders:

Total Depth: 12891 Ground Elevation: 2098 **Surface Casing: 1500** Depth to base of Treatable Water-Bearing FM: 300

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: 8000 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: CLOUD CHIEF

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 22W County ELLIS

Spot Location of End Point: C N2 NW NE

Feet From: NORTH 1/4 Section Line: 330

Feet From: EAST 1/4 Section Line: 1980

Depth of Deviation: 7420

Radius of Turn: 580

Direction: 360

Total Length: 4560

Measured Total Depth: 12891

True Vertical Depth: 8000

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

Notes:

Category	Description
DEEP SURFACE CASING	9/30/2014 - G76 - 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
INCREASED DENSITY - 630921	11/6/2014 - G76 - 8-17N-22W X62838/66170 TNKW 1 WELL LE NORMAN OPERATING LLC 9/22/2014
LOCATION EXCEPTION - 629938	11/6/2014 - G76 - (I.O.) X62838/66170 TNKW SHL 200 FNL, 1980 FEL 17-17N-22W ** COMPL. INT. NCT 330 FSL, NCT 330 FNL, NCT 1320 FEL 8-17N-22W LE NORMAN OPERATING LLC 9/2/2014 ** ITD HAS SHL AS 250 FNL, 1980 FEL 17-17N-22W; TO BE CORRECTED AT FINAL ORDER LOCATION EXCEPTION PER OPERATOR
SPACING - 62838	11/6/2014 - G76 - (640) 8-17N-22W EXT 61184/62327 TNKW
SPACING - 66170	11/6/2014 - G76 - (640) 8-17N-22W CONSOL/EXT 61184/62327/VAR/65653 & 63358/65421 TNKW

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