

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

API NUMBER: 045 23629 A

Approval Date: 01/04/2017
Expiration Date: 07/04/2017

Horizontal Hole Oil & Gas

Amend reason: CORRECTION: 1 WAS ADDED TO WELL NAME

AMEND PERMIT TO DRILL

WELL LOCATION: Sec: 08 Twp: 17N Rge: 22W County: ELLIS
SPOT LOCATION: S2 S2 SE SE FEET FROM QUARTER: FROM SOUTH FROM EAST
SECTION LINES: 150 660

Lease Name: SHARPSHOOTER Well No: 1H-17 Well will be 150 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

ROGER HABEKOTT
RURAL ROUTE 1, BOX 163
ARNETTE OK 73832

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

Name	Depth	Name	Depth
1 TONKAWA	8050	6	
2		7	
3		8	
4		9	
5		10	

Spacing Orders: 66170
62838

Location Exception Orders:

Increased Density Orders:

Pending CD Numbers: 201605844

Special Orders:

Total Depth: 12982

Ground Elevation: 2045

Surface Casing: 1500

Depth to base of Treatable Water-Bearing FM: 280

Under Federal Jurisdiction: No

Fresh Water Supply Well Drilled: No

Surface Water used to Drill: Yes

PIT 1 INFORMATION

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 BED AQUIFER

Pit Location Formation: CLOUD CHIEF

Approved Method for disposal of Drilling Fluids:

D. One time land application -- (REQUIRES PERMIT)

PERMIT NO: 16-31966

H. SEE MEMO

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.

PIT 2 INFORMATION

Type of Pit System: CLOSED Closed System Means Steel Pits

Type of Mud System: OIL BASED

Chlorides Max: 300000 Average: 200000

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 BED AQUIFER

Pit Location Formation: CLOUD CHIEF

HORIZONTAL HOLE 1

Sec 17 Twp 17N Rge 22W County ELLIS

Spot Location of End Point: S2 S2 SE SE

Feet From: SOUTH 1/4 Section Line: 250

Feet From: EAST 1/4 Section Line: 660

Depth of Deviation: 7470

Radius of Turn: 580

Direction: 180

Total Length: 4601

Measured Total Depth: 12982

True Vertical Depth: 8050

End Point Location from Lease,
Unit, or Property Line: 250

Notes:

Category

Description

DEEP SURFACE CASING

12/29/2016 - G71 - APPROVED; NOTIFY OCC FIELD INSPECTOR IMMEDIATELY OF ANY LOSS OF CIRCULATION OR FAILURE TO CIRCULATE CEMENT TO SURFACE ON ANY CONDUCTOR OR SURFACE CASING

HYDRAULIC FRACTURING

12/29/2016 - G71 - OCC 165:10-3-10 REQUIRES: 1) THE CHEMICAL DISCLOSURE OF HYDRAULIC FRACTURING INGREDIENTS FOR ALL WELLS BE REPORTED TO FRACFOCUS USING THE FOLLOWING LINK [HTTP://FRACFOCUS.ORG/](http://fracfocus.org/) WITH NOTICE GIVEN 48 HOURS IN ADVANCE OF FRACTURING TO THE LOCAL OCC DISTRICT OFFICE; AND, 2) PRIOR TO COMMENCEMENT OF FRACTURING OPERATIONS FOR HORIZONTAL WELLS, NOTICE ALSO GIVEN FIVE BUSINESS DAYS IN ADVANCE TO OFFSET OPERATORS WITH WELLS COMPLETED IN THE SAME COMMON SOURCE OF SUPPLY WITHIN 1/2 MILE.

MEMO

12/29/2016 - G71 - PITS 1 & 2 - CLOSED SYSTEM=STEEL PITS PER OPERATOR REQUEST, PIT 2 - OBM RETURNED TO VENDOR, CUTTINGS PERMITTED PER DISTRICT

PENDING CD - 201605844

1/3/2017 - G60 - (640) 17-17N-22W
X66170/62838 TNKW
POE TO BHL NCT 330' FNL NCT 330' FSL, NCT 660' FEL
NO OP. NAMED
REC. 1/3/17 (M. PORTER)

SPACING - 62838

1/3/2017 - G60 - (640) 17-17N-22W
EXT 61184/62327 TNKW

SPACING - 66170

1/3/2017 - G60 - (640) 17-17N-22W
EXT 61184/65653/63358/65421 TNKW

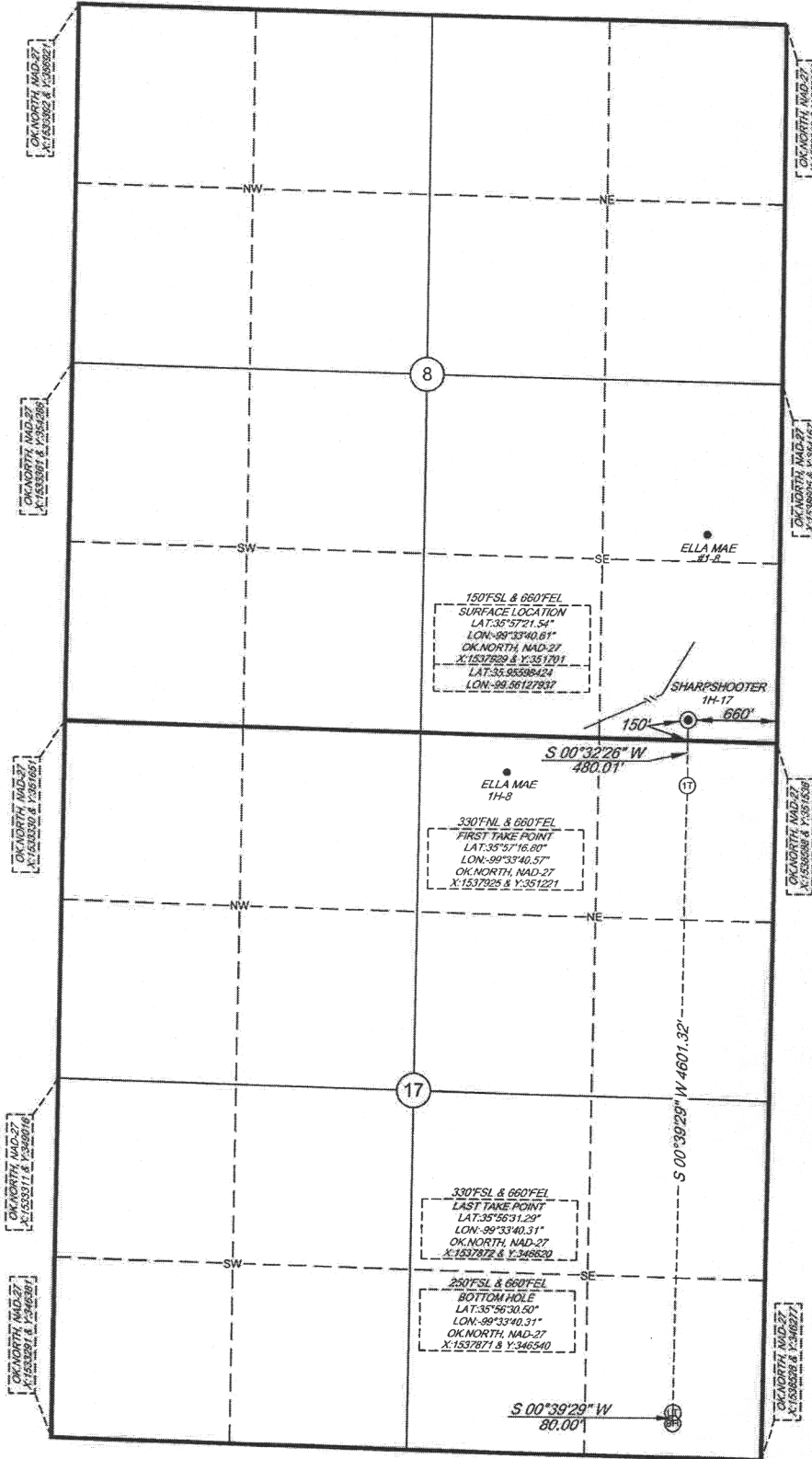
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GRID
NAD-27
OK NORTH
US Feet

- LEGEND**
- = PREVIOUSLY PLATTED WELL
 - = EXISTING WELL
 - ⊙ = PROPOSED WELL
 - ⊕ = PENETRATION POINT
 - ⊖ = TERMINUS POINT
 - ⊗ = BOTTOM HOLE LOC.
 - ⊘ = SECTION CORNER

(This information was gathered with a GPS receiver with ±1 foot Horiz./Vert. accuracy.)



FOOTAGES: 150'FSL & 660'FEL
DATE OF SURVEY: DECEMBER 9, 2016
REFERENCE OR ALTERNATE STAKES SET: NONE SET
LOCATED: *12 MILES SOUTHEAST OF ARNETT, TEXAS
BEST ACCESSIBILITY TO LOCATION: FROM LEASE ROAD TO THE EAST

GROUND ELEVATION: 2045'
TOPOGRAPHY & VEGETATION: PASTURE

CERTIFICATION:

I, Thomas L. Howell an Oklahoma Licensed Land Surveyor and an authorized agent of Topographic Land Surveyors of Oklahoma, do hereby certify to the information shown herein

ORIGINAL DOCUMENT SIZE: 8.5" X 14"



NOTE:
The information shown herein is for construction purposes ONLY.

FILE NAME LQ_SHARPSHOOTER_1H_17.A
KY

Thomas L. Howell
Oklahoma Lic. No. 1433

