API NUMBER: 045 23650

Oil & Gas

Horizontal Hole

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

Approval Date: 05/01/2017
Expiration Date: 11/01/2017

PERMIT TO DRILL

WELL LOCATION: Sec: 16 Twp: 17N Rge: 22W County: ELLIS

SPOT LOCATION: NW NE NW NE FEET FROM QUARTER: FROM NORTH FROM EAST
SECTION LINES: 300 1655

Lease Name: MILLER & SON Well No: 1H-9 Well will be 300 feet from nearest unit or lease boundary.

Operator Name: Telephone: 4055481200 OTC/OCC Number: 22738 0

LE NORMAN OPERATING LLC 4700 GAILLARDIA PKWY STE 200

OKLAHOMA CITY, OK 73142-1839

MILLER & SON, LLC

65398 S. COUNTY ROAD 190

ARNETT OK 73832

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

Name Depth Name Depth 1 **DOUGLAS** 7950 6 2 7 3 8 9 4 10 141677 Spacing Orders: Location Exception Orders: 663145 Increased Density Orders: 663144 621426

Pending CD Numbers: Special Orders:

Total Depth: 12876 Ground Elevation: 2062 **Surface Casing: 1500** Depth to base of Treatable Water-Bearing FM: 220

Under Federal Jurisdiction: No Fresh Water Supply Well Drilled: No Surface Water used to Drill: Yes

PIT 1 INFORMATION Approved Method for disposal of Drilling Fluids:

Type of Pit System: ON SITE A. Evaporation/dewater and backfilling of reserve pit.

Type of Mud System: WATER BASED

H. MIN. SOIL COMPACTED PIT, NOTIFY DISTRICT PRIOR TO TESTING SOIL PIT LINER Is depth to top of ground water greater than 10ft below base of pit? Y

is depth to top of ground water greater than Toft below base of pit?

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

Chlorides Max: 35000 Average: 8000

Pit Location Formation: RUSH SPRINGS

HORIZONTAL HOLE 1

ELLIS Sec 09 Twp 17N Rge 22W County Spot Location of End Point: W2 NF NW NE Feet From: NORTH 1/4 Section Line: 330 Feet From: **EAST** 1/4 Section Line: 1655

Depth of Deviation: 7370
Radius of Turn: 580
Direction: 360
Total Length: 4595

Measured Total Depth: 12876

True Vertical Depth: 7950

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

Notes:

Category Description

DEEP SURFACE CASING 4/21/2017 - 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 4/21/2017 - 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/ 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

INCREASED DENSITY - 663144 5/1/2017 - G60 - 9-17N-22W

X141677 DGLS

1 WELL

LE NORMAN OPERATING LLC.

4/26/17

LOCATION EXCEPTION - 663145 5/1/2017 - G60 - (I.O.) 9-17N-22W

X141677 DGLS

COMPL. INT. NCT 330' FSL, NCT 330' FNL, NCT 1320' FEL

LE NORMAN OPERATING, LLC.

4/26/17

SPACING - 141677 5/1/2017 - G60 - (640) 9-17N-22W

EXT 104943 DGLS, ÓTHERS

SPACING - 621426 5/1/2017 - G60 - (640) 9-17N-22W

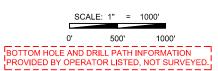
VAC 62838 TNKW VAC 66170 TNKW CONFIRM 141677 DGLS

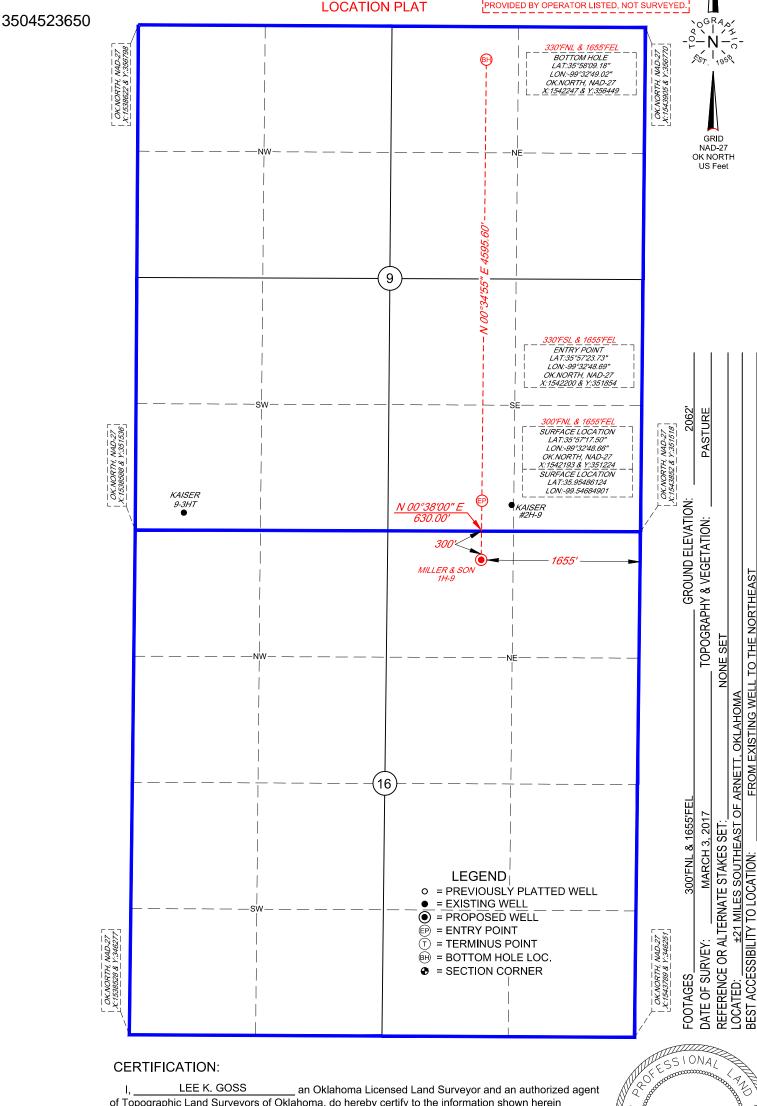


RTH CLASSEN BLVD., OKLA. CITY, OKLA. 73116 PHONE: (405) 843-4847 * FAX (405) 843-0975 Certificate of Authorization No. 1293 LS WWW.TOPOGRAPHIC.COM

MILLER & SON 1H-9

SECTION 16 T-17-N, R-22-WIM ELLIS COUNTY, OKLAHOMA





LEE K. GOSS 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"

DRILL DATA PROVIDED BY LE NORMAN OPERATING LLC

NOTE:

The information shown herein is for construction purposes ONLY.

Oklahoma Lic. No.

1778

CENSED

LEE K. GOSS

1778

APRIL 14, 2017

SURVE