API NUMBER: 009 21989

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

Approval Date: 02/27/2018
Expiration Date: 08/27/2018

Horizontal Hole

Oil & Gas

Is located in a Hydrologically Sensitive Area

Category of Pit: C

Liner not required for Category: C
Pit Location is OTHER HSA
Pit Location Formation: DOXEY

PERMIT TO DRILL

WELL LOCATION: Sec: 27 Twp: 11N Rge: 21W County: BECKHAM FEET FROM QUARTER: SPOT LOCATION: SE SE sw sw SOUTH WEST SECTION LINES: 312 1189 Lease Name: RAZOR'S EDGE 312 feet from nearest unit or lease boundary. Well No: 1H-27 LE NORMAN OPERATING LLC 22738 0 OTC/OCC Number: Telephone: 4055481200 Name: LE NORMAN OPERATING LLC LE NORMAN OPERATING, LLC 4700 GAILLARDIA PKWY STE 200 4700 GAILLARDIA PARKWAY, SUITE 200 OKLAHOMA CITY, OK 73142-1839 OKLAHOMA CITY OK 73142 Formation(s) (Permit Valid for Listed Formations Only): Depth Depth Name GRANITE WASH LOW (DES MOINES) 13020 6 2 3 8 10 167149 Spacing Orders: Location Exception Orders: Increased Density Orders: Pending CD Numbers: Special Orders: Total Depth: 17640 Ground Elevation: 1935 Surface Casing: 1500 Depth to base of Treatable Water-Bearing FM: 520 Under Federal Jurisdiction: Fresh Water Supply Well Drilled: No Surface Water used to Drill: Yes Approved Method for disposal of Drilling Fluids: PIT 1 INFORMATION Type of Pit System: CLOSED Closed System Means Steel Pits Type of Mud System: WATER BASED D. One time land application -- (REQUIRES PERMIT) PERMIT NO: 18-33913 H SEE MEMO Chlorides Max: 35000 Average: 8000 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?

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 OTHER HSA
Pit Location Formation: DOXEY

HORIZONTAL HOLE 1

Sec 27 Twp 11N Rge 21W County BECKHAM

Spot Location of End Point: NE NW NE NW
Feet From: NORTH 1/4 Section Line: 250
Feet From: WEST 1/4 Section Line: 1800

Depth of Deviation: 12674
Radius of Turn: 800
Direction: 10
Total Length: 4620

Measured Total Depth: 18551

True Vertical Depth: 13020

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

Notes:

Category Description

DEEP SURFACE CASING 2/7/2018 - 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 2/7/2018 - G71 - OCC 165:10-3-10 REQUIRES:

1) PRIOR TO COMMENCEMENT OF HYDRAULIC FRACTURING OPERATIONS FOR HORIZONTAL WELLS, NOTICE GIVEN FIVE BUSINESS DAYS IN ADVANCE TO OFFSET OPERATORS WITH

WELLS COMPLETED IN THE SAME COMMON SOURCE OF SUPPLY WITHIN 1/2 MILE;

2) WITH NOTICE ALSO GIVEN 48 HOURS IN ADVANCE OF HYDRAULIC FRACTURING ALL WELLS TO BOTH THE OCC CENTRAL OFFICE AND LOCAL DISTRICT OFFICES, USING THE

"FRAC NOTICE FORM" FOUND AT THE FOLLOWING LINK:

OCCEWEB.COM/OG/OGFORMS.HTML; AND,

3) THE CHEMICAL DISCLOSURE OF HYDRAULIC FRACTURING INGREDIENTS FOR ALL WELLS

TO BE REPORTED TO FRACFOCUS WITHIN 60 DAYS AFTER THE CONCLUSION THE HYDRAULIC FRACTURING OPERATIONS, USING THE FOLLOWING LINK: FRACFOCUS.ORG

LOCATION EXCEPTION - 673698 2/26/2018 - G57 - (I.O.) 27-11N-21W

X167149 DMGWL

SHL NCT 150' FSL, NCT 150' FWL

COMPL. INT. NCT 330' FSL, NCT 330' FNL, NCT 660' FWL

NO OP. NAMED 2-15-2018

MEMO 2/7/2018 - G71 - PITS 1 & 2 - CLOSED SYSTEM=STEEL PITS PER OPERATOR REQUEST, PIT 2 -

OBM RETURNED TO VENDOR, CUTTINGS PERMITTED PER DISTRICT

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.

009 21989 RAZOR'S EDGE 1H-27

Category

SPACING - 167149

Description

2/20/2018 - G57 - (640/560) 27-11N-21W VAC OTHERS EST (640) 163724 DMGWL, OTHERS EST (560) OTHERS