

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

API NUMBER: 153 23621

Approval Date: 05/17/2018

Expiration Date: 11/17/2018

Horizontal Hole

Oil & Gas

PERMIT TO DRILL

WELL LOCATION: Sec: 26 Twp: 23N Rge: 17W

County: WOODWARD

SPOT LOCATION: ☐ SW ☐ SE ☐ SE ☐ SW

FEET FROM QUARTER: FROM SOUTH FROM WEST

SECTION LINES: 230 2010

Lease Name: VESUVIUS 35-23-17

Well No: 1H

Well will be 230 feet from nearest unit or lease boundary.

Operator Name: CHESAPEAKE OPERATING LLC

Telephone: 4059353425; 4059358

OTC/OCC Number: 17441 0

CHESAPEAKE OPERATING LLC
PO BOX 18496
OKLAHOMA CITY, OK 73154-0496

STEVEN V. & CONNIE S. REDGATE
P.O. BOX 197
WAYNOKA OK 73860

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

Name	Depth	Name	Depth
1 CHESTER LIME	6865	6	
2		7	
3		8	
4		9	
5		10	

Spacing Orders: 514600

Location Exception Orders:

Increased Density Orders:

Pending CD Numbers: 201803199
201803200
201803201

Special Orders:

Total Depth: 12300

Ground Elevation: 1685

Surface Casing: 1500

Depth to base of Treatable Water-Bearing FM: 170

Under Federal Jurisdiction: No

Fresh Water Supply Well Drilled: No

Surface Water used to Drill: No

PIT 1 INFORMATION

Approved Method for disposal of Drilling Fluids:

Type of Pit System: CLOSED Closed System Means Steel Pits

Type of Mud System: WATER BASED

Chlorides Max: 25000 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? N

Pit is not located in a Hydrologically Sensitive Area.

Category of Pit: C

Liner not required for Category: C

Pit Location is NON HSA

Pit Location Formation: DOG CREEK

D. One time land application -- (REQUIRES PERMIT) PERMIT NO: 18-34427
H. CLOSED SYSTEM=STEEL PITS PER OPERATOR REQUEST

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 35 Twp 23N Rge 17W County WOODWARD

Spot Location of End Point: SW SW SW SE

Feet From: SOUTH 1/4 Section Line: 150

Feet From: EAST 1/4 Section Line: 2523

Depth of Deviation: 6584

Radius of Turn: 477

Direction: 173

Total Length: 4967

Measured Total Depth: 12300

True Vertical Depth: 7030

End Point Location from Lease,
Unit, or Property Line: 150

Notes:

Category

Description

DEEP SURFACE CASING

5/16/2018 - G71 - APPROVED; NOTIFY OCC FIELD INSPECTOR IMMEDIATELY FOR ANY LOSS OF CIRCULATION OR FAILURE TO CIRCULATE CEMENT TO SURFACE ON CONDUCTOR OR SURFACE CASING

HYDRAULIC FRACTURING

5/16/2018 - 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

PENDING CD - 201803199

5/16/2018 - G75 - (IRR UNIT) N2, SE4 & E2 SW4 35-23N-17W
X514600 CRLM
1 WELL
NO OP. NAMED
REC 5-14-2018 (DENTON)

PENDING CD - 201803200

5/16/2018 - G75 - (I.O.)(IRR UNIT) N2, SE4 & E2 SW4 35-23N-17W
X514600 CRLM
COMPL. INT. NCT 150' FNL, NCT 150' FSL, NCT 1320 FEL
NO OP. NAMED
REC 5-14-2018 (DENTON)

PENDING CD - 201803201

5/16/2018 - G75 - (I.O.)(IRR UNIT) N2, SE4 & E2 SW4 35-23N-17W
X165:10-3-28(C)(2)(B) CRLM (VESUVIUS 35-23-17 1H)
MAY BE CLOSER THAN 600' TO CEDAR CANYON 1-35 & GYPSUM HILL 1-35
NO OP. NAMED
REC 5-14-2018 (DENTON)

SPACING - 514600

5/16/2018 - G75 - (560)(IRR UNIT) N2, SE4 & E2 SW4 35-23N-17W
VAC OTHER
CLARIFY OTHER
REFORM OTHERS
REFORM 203339 CRLM

This permit does not address the right of entry or settlement of surface damages.

153 23621 VESUVIUS 35-23-17 1H

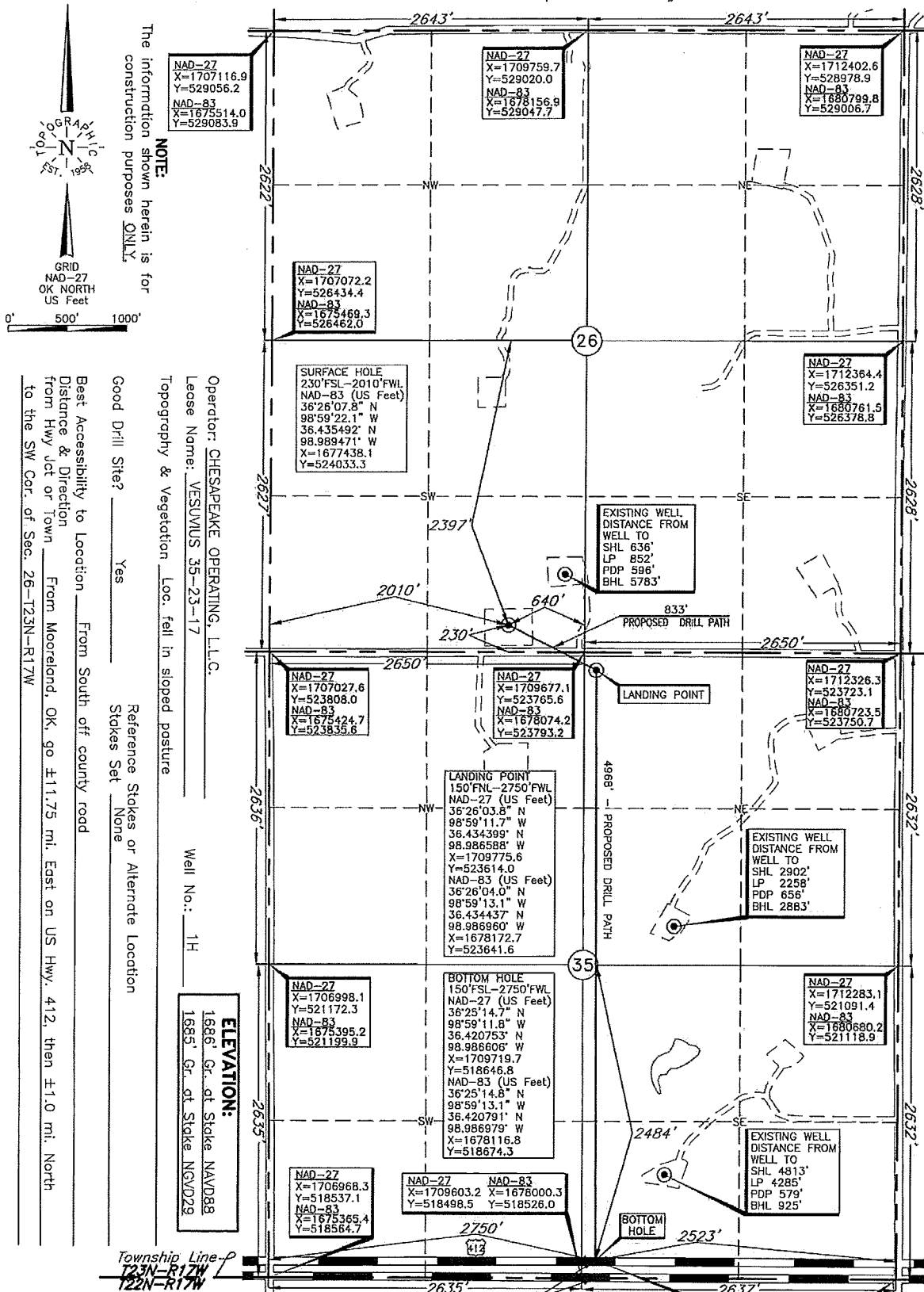
The duration of this permit is SIX MONTHS, except as otherwise provided by Rule 165: 10-3-1.

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.

WOODWARD

County, Oklahoma

230' FSL - 2010' FWL Section 26 Township 23N Range 17W I.M.



LANDING POINT, BOTTOM HOLE AND DRILL PATH INFORMATION
PROVIDED BY OPERATOR LISTED, NOT SURVEYED.

Revision ☒ B Date of Drawing: Apr. 05, 2018

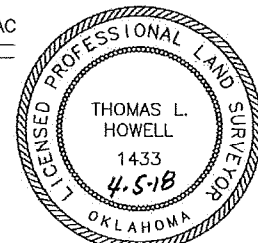
Invoice # 289628 Date Staked: Mar. 01, 2018

AC

CERTIFICATE:

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

Thomas L. Howell
Oklahoma Lic. No. 1433



DATUM: NAD-27
LAT: 36°26'07.6\"N
LONG: 98°59'20.8\"W
LAT: 36.435454° N
LONG: 98.989099° W
STATE PLANE
COORDINATES: (US Feet)
ZONE: OK NORTH
X: 1709040.9
Y: 524005.7