

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

API NUMBER: 011 24031

Approval Date: 06/20/2018

Expiration Date: 12/20/2018

Horizontal Hole Oil & Gas

PERMIT TO DRILL

WELL LOCATION: Sec: 11 Twp: 15N Rge: 11W

County: BLAINE

SPOT LOCATION: ☐ SE ☐ SW ☐ SE ☐ SW

FEET FROM QUARTER: FROM SOUTH FROM WEST

SECTION LINES: 255 1790

Lease Name: LEHMAN BIA

Well No: 4-11H

Well will be 255 feet from nearest unit or lease boundary.

Operator
Name: CIMAREX ENERGY CO

Telephone: 9185851100

OTC/OCC Number: 21194 0

CIMAREX ENERGY CO
202 S CHEYENNE AVE STE 1000
TULSA, OK 74103-3001

BUREAU OF INDIAN AFFAIRS
P O BOX 68
CONCHO AGENCY
EL RENO OK 73036

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

Name	Depth	Name	Depth
1 MISSISSIPPIAN	9860	6	
2		7	
3		8	
4		9	
5		10	

Spacing Orders: 652593

Location Exception Orders:

Increased Density Orders:

Pending CD Numbers: 201803405
201803402

Special Orders:

Total Depth: 15921

Ground Elevation: 1501

Surface Casing: 1500

Depth to base of Treatable Water-Bearing FM: 70

Under Federal Jurisdiction: Yes

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: 10000 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 AP/TE DEPOSIT

Pit Location Formation: TERRACE

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

PERMIT NO: 18-33760

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 11 Twp 15N Rge 11W County BLAINE

Spot Location of End Point: N2 N2 N2 NW

Feet From: NORTH 1/4 Section Line: 150

Feet From: WEST 1/4 Section Line: 1320

Depth of Deviation: 10569

Radius of Turn: 590

Direction: 355

Total Length: 4426

Measured Total Depth: 15921

True Vertical Depth: 11116

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

Notes:

Category

Description

DEEP SURFACE CASING

6/7/2018 - 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

6/7/2018 - 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

INTERMEDIATE CASING

6/7/2018 - G71 - DUE TO THE KNOWN POTENTIAL RISK OF ENCOUNTERING AN OVER-PRESSURED ZONE IN THE MORROW SERIES IN THIS AREA, THE TECHNICAL MANAGER RECOMMENDS SETTING AN INTERMEDIATE STRING OF CASING IMMEDIATELY ABOVE THE MORROW SERIES

PENDING CD - 201803402

6/18/2018 - G58 - (I.O.) 11-15N-11W
X652593 MSSP
COMPL. INT. NCT 150' FSL, NCT 150' FNL, NCT 1240' FWL
NO OP. NAMED
REC 5/21/2018 (DUNN)

PENDING CD - 201803405

6/18/2018 - G58 - 11-15N-11W
X652593 MSSP
4 WELLS
NO OP. NAMED
REC 5/21/2018 (DUNN)

SPACING - 652593

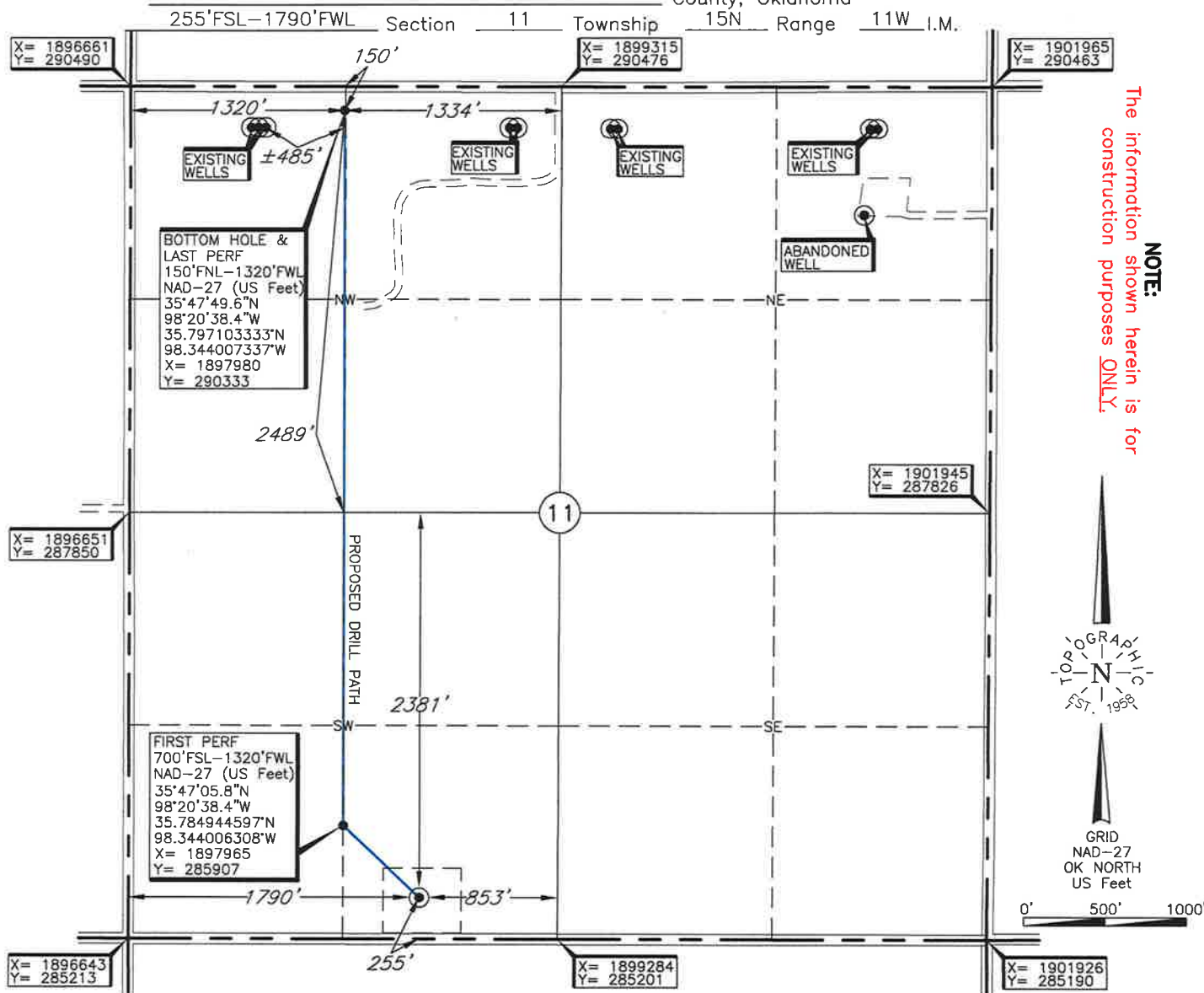
6/18/2018 - G58 - (640)(HOR) 11-15N-11W
EST OTHERS
EXT 649479 MSSP, WDFD
COMPL. INT. (MSSP) NLT 660' FB
COMPL. INT. (WDFD) NLT 165' FNL & FSL, NCT 330' FEL & FWL
(COEXIST WITH SP. ORDER 222673 CSTR; OTHER)

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011 24031 LEHMAN BIA 4-11H



FIRST PERF, LAST PERF, BOTTOM HOLE, AND DRILL PATH
INFORMATION PROVIDED BY OPERATOR LISTED, NOT SURVEYED.

Operator: CIMAREX ENERGY CO.

Lease Name: LEHMAN BIA

Well No.: 4-11H

ELEVATION:

1501' Gr. at Stake NGVD29

Topography & Vegetation Loc. fell in heavy trees and brush

Good Drill Site? Yes Reference Stakes or Alternate Location
Stakes Set None

Best Accessibility to Location From South off county road.

Distance & Direction

from Hwy Jct or Town From the junction of St. Hwy. 33 and US Hwy. 270 in Watonga, OK,

go East on St. Hwy. 33 ±4 miles, then South ±4 miles to the SW Cor. of Sec. 11-T15N-R11W.

Date of Drawing: Jan. 9, 2018
Invoice # 286416 Date Staked: Dec. 29, 2017 TR

DATUM: NAD-27
LAT: 35°47'01.4"N
LONG: 98°20'32.7"W
LAT: 35.783722151°N
LONG: 98.342422169°W
STATE PLANE
COORDINATES: (US Feet)
ZONE: OK NORTH
X: 1898433
Y: 285461

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

