

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

API NUMBER: 093 25129

Approval Date: 02/14/2018

Expiration Date: 08/14/2018

Horizontal Hole Oil & Gas

PERMIT TO DRILL

WELL LOCATION: Sec: 25 Twp: 20N Rge: 15W

County: MAJOR

SPOT LOCATION:

FEET FROM QUARTER: FROM SOUTH FROM WEST

SECTION LINES: 210 714

Lease Name: LEO DEAN

Well No: 25-2H

Well will be 210 feet from nearest unit or lease boundary.

Operator Name: COMANCHE EXPLORATION CO LLC

Telephone: 4057555900

OTC/OCC Number: 20631 0

COMANCHE EXPLORATION CO LLC  
6520 N WESTERN AVE STE 300  
OKLAHOMA CITY, OK 73116-7334

KEVIN R. & CARISSA LINN HURT  
238259 E. COUNTY ROAD #58  
CHESTER OK 73838

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

Name	Depth	Name	Depth
1 MISSISSIPPIAN	8100	6	
2		7	
3		8	
4		9	
5		10	

Spacing Orders: No Spacing

Location Exception Orders:

Increased Density Orders:

Pending CD Numbers: 201708672  
201708671

Special Orders:

Total Depth: 13735

Ground Elevation: 1680

**Surface Casing: 800**

Depth to base of Treatable Water-Bearing FM: 330

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: 8000 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: 18-33816  
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 AP/TE DEPOSIT

Pit Location Formation: TERRACE

HORIZONTAL HOLE 1

Sec 25 Twp 20N Rge 15W County MAJOR

Spot Location of End Point: NW NE NW NW

Feet From: NORTH 1/4 Section Line: 135

Feet From: WEST 1/4 Section Line: 714

Depth of Deviation: 8430

Radius of Turn: 434

Direction: 1

Total Length: 4624

Measured Total Depth: 13735

True Vertical Depth: 9030

End Point Location from Lease,  
Unit, or Property Line: 135

Notes:

Category

Description

DEEP SURFACE CASING

1/24/2018 - 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

1/24/2018 - 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](http://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](http://FRACFOCUS.ORG)

INTERMEDIATE CASING

1/24/2018 - 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

MEMO

1/24/2018 - 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.

093 25129 LEO DEAN 25-2H

Category	Description
PENDING CD - 201708671	1/25/2018 - G58 - (I.O.) 25-20N-15W X635883/644741 MSSP 1 WELL NO OP. NAMED REC 1/23/2018 (MILLER)
PENDING CD - 201708672	1/25/2018 - G58 - (I.O.) 25-20N-15W X635883/644741 MSSP COMPL. INT. NCT 165' FSL, NCT 165' FNL, NCT 330' FWL NO OP. NAMED REC 1/23/2018 (MILLER)
PENDING CD - 201800775	1/26/2018 - G58 - (E.O.) 25-20N-15W X165:10-3-28(C)(2)(B) MSSP (LEO DEAN 25-2H) MAY BE CLOSER THAN 600' TO LEO DEAN 25-1H WELL REC 2/2/2018 (THOMAS)
SPACING - 635883	1/25/2018 - G58 - (640)(HOR) 25-20N-15W EST MSSP, OTHER POE TO BHL NCT 660' FB
SPACING - 644741	**NPT TO COEXIST WITH SP. ORDER 102031/201755 CSTR, SP. ORDER 141045/201755 MSSLM PREPARED BY OPERATOR ATTORNEY AND REVIEWED BY OCC TECHNICAL 1/25/2018 - G58 - (640)(HOR) 25-20N-15W NPT 635883 TO COEXIST SP ORDER 102031 AS REFORMED BY 201755 CSTR; COEXIST 141045 AS REFORMED BY 201755 MSSLM

# TOPOGRAPHIC LAND SURVEYORS OF OKLAHOMA

13800 WIRELESS WAY, OKLA. CITY, OKLA. 73134 \* LOCAL (405) 843-4847 \* OUT OF STATE (800) 654-3219

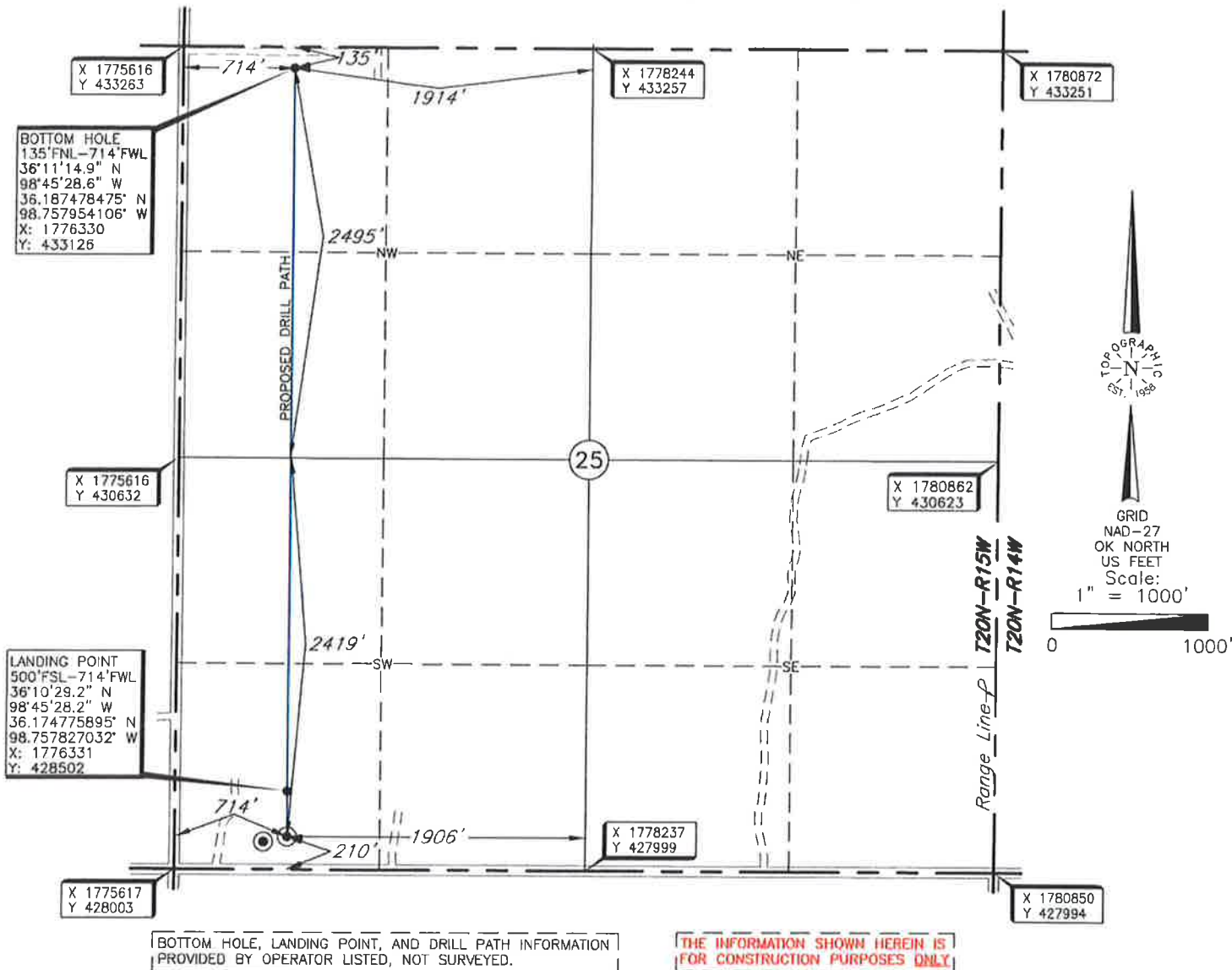
Certificate of Authorization No. 1293 LS

MAJOR

County, Oklahoma

210'FSL-714'FWL Section 25 Township 20N Range 15W I.M.

093-25129



Operator: COMANCHE RESOURCES CO.

Lease Name: LEO DEAN

Well No.: 25-2H

**ELEVATION:**

1680' Gr. at level pad

Topography & Vegetation Location fell on existing level pad, ±155' NE of existing well head.

Good Drill Site? Yes

Reference Stakes or Alternate Location  
Stakes Set None

Best Accessibility to Location From county road south of well location.

Distance & Direction

from Hwy Jct or Town From Orion, OK., go ±3.0 miles south, then ±1.0 mile east to  
the Southwest Corner of Section 25, T20N-R15W.

DATUM: NAD-27

LAT: 36°10'26.3"N

LONG: 98°45'28.1"W

LAT: 36.173978337°N

LONG: 98.757818257°W

STATE PLANE

COORDINATES (US FEET):

ZONE: OK NORTH

X: 1776331

Y: 428212

Date of Drawing: Jan. 15, 2018

Invoice # 286878

Date Staked: Jan. 12, 2018

JGW

## 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 Reg. No. 1433



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