

API NUMBER: 093 25240 A

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

Approval Date: 08/25/2021
Expiration Date: 02/25/2023

Horizontal Hole Oil & Gas

PERMIT TO DRILL

WELL LOCATION: Section: 13 Township: 20N Range: 15W County: MAJOR

SPOT LOCATION: S2 N2 NW NE FEET FROM QUARTER: FROM NORTH FROM EAST
SECTION LINES: 500 1980

Lease Name: GEORGE Well No: 13-12-1H Well will be 500 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

GEORGE LOUIS WALTERS
19611 PINEY PLACE COURT
HOUSTON OK 77094

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

Name	Code	Depth
1 MISS'AN LM	359MPLM	8975

Spacing Orders: 141045

Location Exception Orders: 706123
715978

Increased Density Orders: 705961
715977

Pending CD Numbers: No Pending

Working interest owners' notified: ***

Special Orders: No Special

Total Depth: 14321 Ground Elevation: 1779

Surface Casing: 800

Depth to base of Treatable Water-Bearing FM: 430

Deep surface casing has been approved

Approved Method for disposal of Drilling Fluids:

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

PERMIT NO: 19-37089

H. (Other)

SEE MEMO

PIT 1 INFORMATION

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

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

This permit does not address the right of entry or settlement of surface damages. The duration of this permit is 18 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

Section: 12	Township: 20N	Range: 15W	Meridian: IM	Total Length: 5200
County: MAJOR				Measured Total Depth: 14321
Spot Location of End Point: N2 N2 NE NW				True Vertical Depth: 9100
Feet From: NORTH		1/4 Section Line: 135		End Point Location from
Feet From: EAST		1/4 Section Line: 1980		Lease, Unit, or Property Line: 135

NOTES:

Category	Description
DEEP SURFACE CASING	11/13/2019 - GC2 - 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	<p>[8/25/2021 - GC2] - OCC 165:10-3-10 REQUIRES:</p> <p>1) NOTICE SHALL BE GIVEN AT LEAST 5 BUSINESS DAYS PRIOR TO COMMENCEMENT OF HYDRAULIC FRACTURING OPERATIONS ON A HORIZONTAL WELL TO OPERATORS PRODUCING WELLS WITHIN 1 MILE OF THE COMPLETION INTERVAL OF THE SUBJECT WELL. THE NOTICE TO SUCH OPERATORS SHALL CONTAIN THE INFORMATION IN FORM 6000NOO. IF THE HYDRAULIC FRACTURING OPERATIONS SCHEDULE CHANGES AFTER NOTICE HAS BEEN PROVIDED, RESULTING IN A DELAY OF OPERATIONS OF MORE THAN 5 DAYS FROM THE INITIAL NOTICE, NEW NOTICE IS REQUIRED TO BE GIVEN;</p> <p>2) NOTICE WILL BE GIVEN TO THE OCC CENTRAL OFFICE AND LOCAL DISTRICT OFFICES AT LEAST 48 HOURS PRIOR TO COMMENCEMENT OF HYDRAULIC FRACTURING OPERATIONS. FORM 6000NHF SHALL BE USED AND IS FOUND AT THIS LINK: OCCEWEB.COM/OG/OGFORMS.HTML; AND,</p> <p>3) THE CHEMICAL DISCLOSURE OF HYDRAULIC FRACTURING INGREDIENTS FOR ALL WELLS IS TO BE REPORTED TO FRACFOCUS WITHIN 60 DAYS AFTER THE CONCLUSION OF HYDRAULIC FRACTURING OPERATIONS, FOUND AT FRACFOCUS.ORG</p>
INCREASED DENSITY - 705961 (201904301)	8/25/2021 - GC2 - 12-20N-15W X141045 MPLM 1 WELL NO OP. NAMED 12-5-2021
INCREASED DENSITY - 715977	[8/25/2021 - GC2] - EXT OF TIME FOR 705961 UNTIL 12-5-2021
INTERMEDIATE CASING	11/13/2019 - GC2 - 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
LOCATION EXCEPTION - 706123 (201904302)	8/25/2021 - GC2 - (I.O.) 12-20N-15W X141045 MPLM COMPL. INT. NCT 165' FNL, NCT 165' FSL, NCT 560' FEL NO OP. NAMED 12-10-2019
LOCATION EXCEPTION - 715978	[8/25/2021 - GC2] - EXT OF TIME FOR 706123 UNTIL 12-10-2021
MEMO	11/13/2019 - GC2 - PITS 1 & 2 - CLOSED SYSTEM=STEEL PITS PER OPERATOR REQUEST, PIT 2 - OBM RETURNED TO VENDOR, CUTTINGS PERMITTED PER DISTRICT
SPACING - 141045	11/25/2019 - GC2 - (640) 12-20N-15W EXT 125423 MPLM EXT OTHER

WELL LOCATION

GEORGE 13-12-1H
COMANCHE EXPLORATION CO. LLC.
SECTION 13, TOWNSHIP 20N, RANGE 15W, I.M.
MAJOR COUNTY, OKLAHOMA

LEGEND

SECTION LINE
RANGE LINE
QUARTER SECTION LINE
16TH LINE
PROPOSED WELL BORE



SCALE: 1" = 2000'
0' 1000' 2000'

BOTTOM HOLE
135' FNL & 1980' FEL SEC. 12
NAD-27
X= 1778966
Y= 448872
LAT.: 36°13'50.8" N
LONG.: 98°44'57.9" W
LAT.: 36.230790° N
LONG.: 98.749430° W
NAD-83
X= 1747364
Y= 448898
LAT.: 36°13'51.0" N
LONG.: 98°44'59.3" W
LAT.: 36.230828° N
LONG.: 98.749796° W

LANDING POINT
250' FSL & 1980' FEL SEC. 12
NAD-27
X= 1778930
Y= 444010
LAT.: 36°13'02.8" N
LONG.: 98°44'57.9" W
LAT.: 36.217433° N
LONG.: 98.749424° W
NAD-83
X= 1747328
Y= 444036
LAT.: 36°13'02.9" N
LONG.: 98°44'59.2" W
LAT.: 36.217471° N
LONG.: 98.749791° W

NAD-27
X= 1775695
Y= 449001
NAD-83
X= 1744082
Y= 449027

NAD-27
X= 1778321
Y= 449006
NAD-83
X= 1746719
Y= 449032

NAD-27
X= 1780947
Y= 449010
NAD-83
X= 1749345
Y= 449037

NAD-27
X= 1775686
Y= 446379
NAD-83
X= 1744083
Y= 446406

NAD-27
X= 1776297
Y= 443759
NAD-83
X= 1746695
Y= 443785

NAD-27
X= 1780927
Y= 446386
NAD-83
X= 1749325
Y= 446412

NAD-27
X= 1775677
Y= 443758
NAD-83
X= 1744075
Y= 443784

NAD-27
X= 1780909
Y= 443761
NAD-83
X= 1749306
Y= 443787

NAD-27
X= 1775663
Y= 441122
NAD-83
X= 1744080
Y= 441148

NAD-27
X= 1780900
Y= 441138
NAD-83
X= 1749297
Y= 441162

NAD-27
X= 1775649
Y= 438496
NAD-83
X= 1744046
Y= 438522

NAD-27
X= 1778271
Y= 438498
NAD-83
X= 1746668
Y= 438524

NAD-27
X= 1780891
Y= 438501
NAD-83
X= 1749288
Y= 438528

SURFACE LOCATION
500' FNL & 1980' FEL SEC. 13
NAD-27
X= 1778927
Y= 443260
LAT.: 36°12'55.3" N
LONG.: 98°44'57.9" W
LAT.: 36.215373° N
LONG.: 98.749416° W
ELEV.: 1779' (NGVD29)
NAD-83
X= 1747324
Y= 443286
LAT.: 36°12'55.5" N
LONG.: 98°44'59.2" W
LAT.: 36.215411° N
LONG.: 98.749783° W
ELEV.: 1780' (NAVD88)



SURVEYOR'S CERTIFICATE:

I, DAN W. ROGERS, AN OKLAHOMA LICENSED LAND SURVEYOR AND AN AUTHORIZED AGENT OF TOPOGRAPHIC LAND SURVEYORS, DO HEREBY CERTIFY TO THE INFORMATION SHOWN HEREIN.

TOPOGRAPHIC
LOYALTY INNOVATION LEGACY
13800 WIRELESS WAY • OKLAHOMA CITY, OKLAHOMA 73134
TELEPHONE: (405) 843-4847 OR (800) 654-3219
CERTIFICATE OF AUTHORIZATION NO. 1292 LS
WWW.TOPOGRAPHIC.COM

Dan W. Rogers, P.L.S. No. 1200
Authorized Agent of Topographic Land Surveyors

LEASE NAME & WELL NO. GEORGE 13-12-1H

SECTION 13 TWP 20N RGE 15W MERIDIAN I.M.
COUNTY MAJOR STATE OKLAHOMA
DESCRIPTION 500' FNL & 1980' FEL

GEORGE 13-12-1H	REVISION:	
	INT	DATE
DATE: 08/09/2021		
FILE: LO_GEORGE_1H		
DRAWN BY: KEU		
SHEET: 1 OF 2		

NOTES:

1. ORIGINAL DOCUMENT SIZE: 8 1/2" X 14"
2. ALL BEARINGS SHOWN HEREON ARE GRID OKLAHOMA COORDINATE SYSTEM OF 1983 NORTH ZONE ACCORDING TO THE RESULT OF STATIC GPS OBSERVATION PROCESSED THROUGH OPUS ON THE CONTROL POINT OCCUPIED WHILE MEASURING SAID LINES. OPUS RESULTS ARE CORRELATED TO OKLAHOMA COORDINATE SYSTEM THROUGH NORTH ZONE AND THE NORTH AMERICAN VERTICAL DATUM OF 1988.
3. OKLAHOMA COORDINATE SYSTEM OF 1927 AND NATIONAL GEOGRAPHIC VERTICAL DATUM OF 1929 INFORMATION CONVERTED FROM OKLAHOMA COORDINATE SYSTEM OF 1983 AND NORTH AMERICAN VERTICAL DATUM OF 1988.
4. CERTIFICATION IS MADE ONLY TO THE LOCATION OF THIS EASEMENT/LOCATION, IN RELATION TO THE EVIDENCE FOUND DURING A FIELD SURVEY, MADE ON THE GROUND, UNDER MY SUPERVISION, AND USING DOCUMENTATION PROVIDED BY COMANCHE EXPLORATION CO. I.L.O. ONLY UTILITIES/EASEMENTS THAT WERE VISIBLE ON THE DATE OF THIS SURVEY, WITHIN ADJOINING THIS EASEMENT/LOCATION, HAVE BEEN LOCATED AS SHOWN HEREON OF WHICH I HAVE KNOWLEDGE. THIS CERTIFICATION IS LIMITED TO THOSE PERSONS OR ENTITIES SHOWN ON THE FACE OF THIS PLAT AND IS NON-TRANSFERABLE, AND MADE FOR THIS TRANSACTION ONLY.
5. THE INFORMATION SHOWN HEREIN IS FOR CONSTRUCTION PURPOSES ONLY.