

API NUMBER: 093 25257

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

Approval Date: 06/28/2021
Expiration Date: 12/28/2022

Horizontal Hole Oil & Gas

PERMIT TO DRILL

WELL LOCATION: Section: 01 Township: 20N Range: 16W County: MAJOR

SPOT LOCATION: FEET FROM QUARTER: FROM NORTH FROM EAST
SECTION LINES: 223 250

Lease Name: MONGOLD 1-31 Well No: 1H Well will be 223 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

WANDA J. MONGOLD & RICKY L. MONGOLD
238786 E. COUNTY RD 54
CHESTER OK 73838

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

Name	Code	Depth
1 MISSISSIPPI LIME	351MSSLM	9035

Spacing Orders: 110453

Location Exception Orders: 718812

Increased Density Orders: 718778

Pending CD Numbers: No Pending

Working interest owners' notified: ***

Special Orders: No Special Orders

Total Depth: 14175

Ground Elevation: 1829

Surface Casing: 800

Depth to base of Treatable Water-Bearing FM: 430

Deep surface casing has been approved

Under Federal Jurisdiction: No
Fresh Water Supply Well Drilled: No
Surface Water used to Drill: No

Approved Method for disposal of Drilling Fluids:

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

PERMIT NO: 21-37676

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

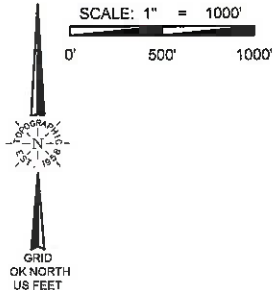
This permit does not address the right of entry or settlement of surface damages. The duration of this permit is 18 MONTHS, except as otherwise provided by Rule 165: 10-3-1. Rule 165: 10-3-4 (c) (7) (e) - The Operator shall give 24 Hours notice by telephone to the appropriate District Office of the Conservation Division as to when Surface Casing will be run.

HORIZONTAL HOLE 1

Section: 31	Township: 21N	Range: 15W	Meridian: IM	Total Length: 4924
	County: MAJOR			Measured Total Depth: 14175
Spot Location of End Point: NW	NE	NW	NW	True Vertical Depth: 9500
Feet From: NORTH		1/4 Section Line: 135		End Point Location from
Feet From: WEST		1/4 Section Line: 935		Lease, Unit, or Property Line: 135

NOTES:

Category	Description
DEEP SURFACE CASING	[6/25/2021 - 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>[6/25/2021 - 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 - 718778	<p>[6/28/2021 - G56] - 31-21N-15W</p> <p>X110453 MSSLM</p> <p>1 WELL</p> <p>NO OP NAMED</p> <p>6/8/21</p>
INTERMEDIATE CASING	[6/25/2021 - 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 - 718812	<p>[6/28/2021 - G56] - (I.O.) 31-21N-15W</p> <p>X110453 MSSLM</p> <p>COMPL INT NCT 165' FNL, NCT 165' FSL, NCT 330' FWL</p> <p>COMANCHE EXPLOR CO, LLC</p> <p>6/10/21</p>
MEMO	[6/25/2021 - GC2] - CLOSED SYSTEM=STEEL PITS PER OPERATOR REQUEST, OBM RETURNED TO VENDOR, CUTTINGS PERMITTED PER DISTRICT
SPACING - 110453	<p>[6/28/2021 - G56] - (640) 31-21N-15W</p> <p>EXT OTHERS</p> <p>EST MSSLM, OTHER</p>



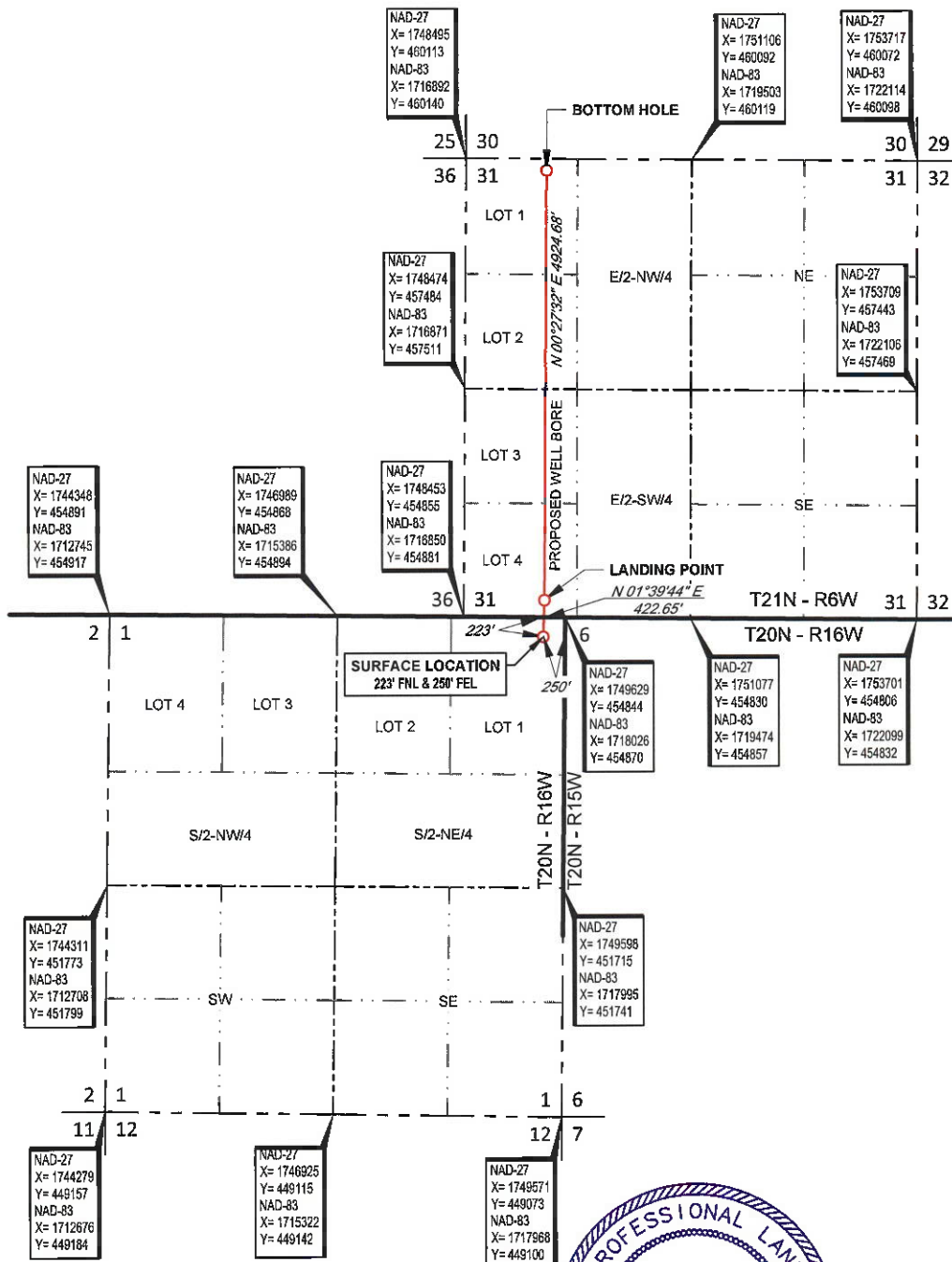
WELL LOCATION
MONGOLD 1-31 1H
COMANCHE EXPLORATION CO., LLC.
SECTION 1, TOWNSHIP 20N, RANGE 16W, I.M.
MAJOR COUNTY, OKLAHOMA

LEGEND	
	SECTION LINE
	TOWNSHIP/RANGE LINE
	QUARTER SECTION LINE
	16TH LINE
	PROPOSED WELL BORE

SURFACE LOCATION
223' FNL & 250' FEL
NAD-27
X= 1749377
Y= 454624
LAT.: 36°14'45.3" N
LONG.: 98°50'59.7" W
LAT.: 36.245921° N
LONG.: 98.849920° W
ELEV.: 1829' (NGVD29)
NAD-83
X= 1717774
Y= 454650
LAT.: 36°14'45.5" N
LONG.: 98°51'01.0" W
LAT.: 36.245959° N
LONG.: 98.850290° W
ELEV.: 1829' (NAVD88)

LANDING POINT
200' FSL & 935' FWL
NAD-27
X= 1749389
Y= 455046
LAT.: 36°14'49.5" N
LONG.: 98°50'59.6" W
LAT.: 36.247082° N
LONG.: 98.849891° W
NAD-83
X= 1717786
Y= 455073
LAT.: 36°14'49.6" N
LONG.: 98°51'00.9" W
LAT.: 36.247119° N
LONG.: 98.850261° W

BOTTOM HOLE
135' FNL & 935' FWL
NAD-27
X= 1749429
Y= 459971
LAT.: 36°15'38.2" N
LONG.: 98°50'59.7" W
LAT.: 36.260610° N
LONG.: 98.849903° W
NAD-83
X= 1717826
Y= 459997
LAT.: 36°15'38.3" N
LONG.: 98°51'01.0" W
LAT.: 36.260648° N
LONG.: 98.850273° W



SURVEYOR'S CERTIFICATE:

I, T. WAYNE FISCH, AN OKLAHOMA LICENSED LAND SURVEYOR AND AN AUTHORIZED AGENT OF TOPOGRAPHIC LAND SURVEYORS, DO HEREBY CERTIFY TO THE INFORMATION SHOWN HEREIN.

T. Wayne Fisch
T. Wayne Fisch, P.L.S. No. 1378
Authorized Agent of Topographic Land Surveyors

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

LEASE NAME & WELL NO. MONGOLD 1-31 1H
SECTION 1 TWP 20N RGE 16W MERIDIAN I.M.
COUNTY MAJOR STATE OKLAHOMA
DESCRIPTION 223' FNL & 250' FEL

MONGOLD 1-31 1H	REVISION:	
	INT	DATE
DATE: 06/16/2021		
FILE:LO_MONGOLD_1-31_1H		
DRAWN BY: KEU		
SHEET: 1 OF 2		

NOTES:

1. ORIGINAL DOCUMENT SIZE: 8.5" X 14"
2. ALL BEARINGS SHOWN HEREON ARE GRID OKLAHOMA COORDINATE SYSTEM OF 1983 NORTH ZONE ACCORDING TO THE RESULT OF STATIO-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., LLC. 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