

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

API NUMBER: 093 25099

Approval Date: 10/17/2017

Expiration Date: 04/17/2018

Horizontal Hole Oil & Gas

PERMIT TO DRILL

WELL LOCATION: Sec: 32 Twp: 20N Rge: 16W

County: MAJOR

SPOT LOCATION: ☐ NE ☐ NW ☐ NW ☐ NW

FEET FROM QUARTER: FROM NORTH FROM WEST

SECTION LINES: 200 640

Lease Name: GUFFY

Well No: 32-1H

Well will be 200 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

JOSEPH G. & WILMA L. HART
P.O. BOX 453
CANTON OK 73724

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

Name	Depth	Name	Depth
1 MISSISSIPPIAN	8500	6	
2		7	
3		8	
4		9	
5		10	

Spacing Orders: 666109

Location Exception Orders: 666875

Increased Density Orders:

Pending CD Numbers:

Special Orders:

Total Depth: 14459

Ground Elevation: 1749

Surface Casing: 800

Depth to base of Treatable Water-Bearing FM: 510

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 BED AQUIFER

Pit Location Formation: MARLOW

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

PERMIT NO: 17-33244

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 32 Twp 20N Rge 16W County MAJOR

Spot Location of End Point: SE SW SW SW

Feet From: SOUTH 1/4 Section Line: 135

Feet From: EAST 1/4 Section Line: 450

Depth of Deviation: 9030

Radius of Turn: 306

Direction: 182

Total Length: 4949

Measured Total Depth: 14459

True Vertical Depth: 9814

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

Notes:

Category

Description

DEEP SURFACE CASING

10/3/2017 - 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

10/3/2017 - 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

10/3/2017 - 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

LOCATION EXCEPTION - 666875

10/17/2017 - G60 - (I.O.) 32-20N-16W
X666109 MSSP
COMPL. INT. NCT 165' FNL, NCT 165' FSL, NCT 330' FWL
COMANCHE EXPLORATION CO. LLC.
8/11/17

SPACING - 666109

10/17/2017 - G60 - (640) 32-20N-16W
EST MSSP, OTHER
COMPL. INT. NCT 660' FB
(COEXIST WITH SP. ORDER 61727 CRLM)

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

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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.

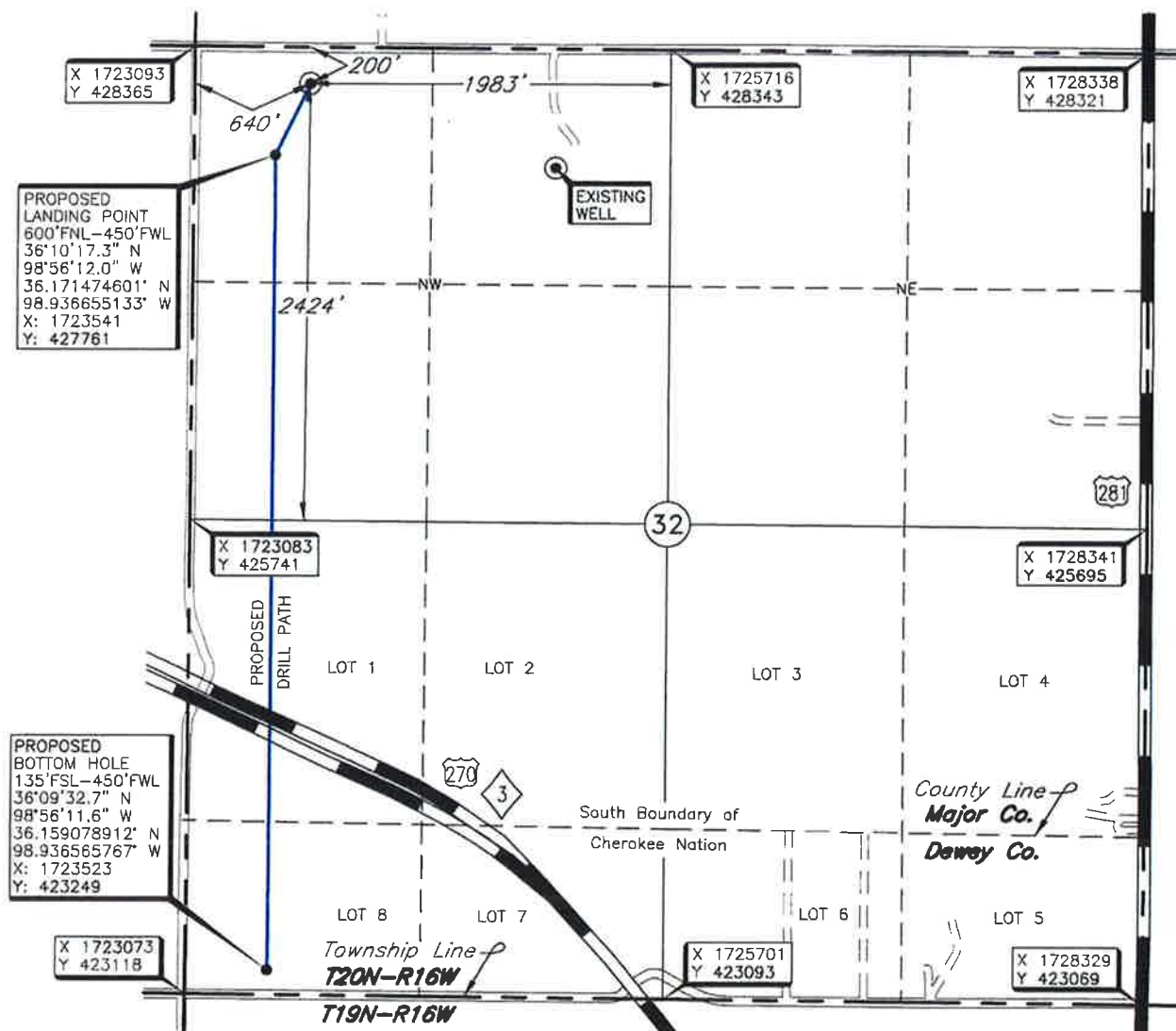
093 25099 GUFFY 32-1H

MAJOR

County, Oklahoma

3509325099

200'FNL-640'FWL Section 32 Township 20N Range 16W I.M.



GRID
 NAD-27
 OK NORTH
 US FEET
 Scale:
 1" = 1000'

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

THE INFORMATION SHOWN HEREIN IS
 FOR CONSTRUCTION PURPOSES ONLY

Operator: COMANCHE EXPLORATION CO., LLC.

Lease Name: GUFFY

Well No.: 32-1H

ELEVATION:

1749' Gr. at Stake

Topography & Vegetation Loc. fell in terraced, cut wheat field

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

Best Accessibility to Location From North off county road

Distance & Direction

from Hwy Jct or Town From the junction of US Hwy 281 & US Hwy 60 in Chester, Oklahoma, go ± 3 miles South
on US Hwy 281, then ± 1 mile West to the Northwest Corner of Section 32, T20N-R16W.

DATUM: NAD-27
 LAT: 36°10'21.3" N
 LONG: 98°56'09.7" W
 LAT: 36.172573974° N
 LONG: 98.936020564° W

STATE PLANE
 COORDINATES (US FEET):
 ZONE: OK NORTH

X: 1723732
 Y: 428159

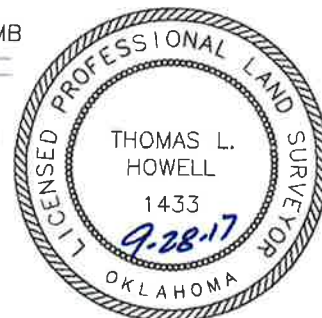
Revision ☒ B Date of Drawing: Sept. 28, 2017

Invoice # 281178 Date Staked: Sept. 21, 2017 NMB

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