

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

API NUMBER: 093 25042

Approval Date: 10/19/2016
Expiration Date: 04/19/2017

Horizontal Hole Oil & Gas

PERMIT TO DRILL

WELL LOCATION: Sec: 31 Twp: 21N Rge: 16W County: MAJOR
SPOT LOCATION: N2 NE NW NE FEET FROM QUARTER: FROM SOUTH FROM EAST
SECTION LINES: 200 1650

Lease Name: **HOLLENBACK** Well No: **31-30-1H** 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

HAROLD J HOLLENBACK
R.R. 1 BOX 12A
SEILING OK 73663

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

Name	Depth	Name	Depth
1 MISSISSIPPIAN	7800	6	
2		7	
3		8	
4		9	
5		10	

Spacing Orders: No Spacing

Location Exception Orders: _____

Increased Density Orders: _____

Pending CD Numbers: 201603469
201603471

Special Orders: _____

Total Depth: 13974 Ground Elevation: 1798 **Surface Casing: 800** Depth to base of Treatable Water-Bearing FM: 630

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

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

Approved Method for disposal of Drilling Fluids:

D. One time land application -- (REQUIRES PERMIT) PERMIT NO: 16-31607
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 30 Twp 21N Rge 16W County MAJOR

Spot Location of End Point: N2 NE NW NE

Feet From: NORTH 1/4 Section Line: 135

Feet From: EAST 1/4 Section Line: 1650

Depth of Deviation: 8320

Radius of Turn: 600

Direction: 360

Total Length: 4711

Measured Total Depth: 13974

True Vertical Depth: 8778

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

Notes:

Category	Description
HYDRAULIC FRACTURING	10/17/2016 - G71 - OCC 165:10-3-10 REQUIRES: 1) THE CHEMICAL DISCLOSURE OF HYDRAULIC FRACTURING INGREDIENTS FOR ALL WELLS BE REPORTED TO FRACFOCUS USING THE FOLLOWING LINK HTTP://FRACFOCUS.ORG/ WITH NOTICE GIVEN 48 HOURS IN ADVANCE OF FRACTURING TO THE LOCAL OCC DISTRICT OFFICE; AND, 2) PRIOR TO COMMENCEMENT OF FRACTURING OPERATIONS FOR HORIZONTAL WELLS, NOTICE ALSO GIVEN FIVE BUSINESS DAYS IN ADVANCE TO OFFSET OPERATORS WITH WELLS COMPLETED IN THE SAME COMMON SOURCE OF SUPPLY WITHIN 1/2 MILE.
PENDING CD - 201603469	10/18/2016 - G60 - (640)(HOR) 30-21N-16W EST MSSP COMPL. INT. NLT 660' FB (COEXIST WITH SP. ORDER 43757 CSTR; SP. ORDER 156091 MSSSD) REC. 9/20/16 (M. PORTER)
PENDING CD - 201603471	10/18/2016 - G60 - (I.O.) 30-21N-16W X201603469 MSSP COMPL. INT. NCT 165' FNL AND 165' FSL, NCT 330' FEL NO OP. NAMED REC. 9/20/16 (M. PORTER)

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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.