

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

API NUMBER: 011 23788

Approval Date: 04/26/2017
Expiration Date: 10/26/2017

Horizontal Hole Oil & Gas

PERMIT TO DRILL

WELL LOCATION: Sec: 32 Twp: 18N Rge: 12W County: BLAINE
SPOT LOCATION: SW SE SE SE FEET FROM QUARTER: FROM SOUTH FROM EAST
SECTION LINES: 207 355

Lease Name: TWIN OAKS Well No: 1-5-8XH Well will be 207 feet from nearest unit or lease boundary.
Operator Name: COUNCIL OAK RESOURCES LLC Telephone: 9185130925 OTC/OCC Number: 23853 0

COUNCIL OAK RESOURCES LLC
6120 S YALE AVE STE 1200
TULSA, OK 74136-4241

BRANDON WEBB
251712 EAST 710 ROAD
WATONGA OK 73772

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

	Name	Depth	Name	Depth
1	MISSISSIPPIAN	9820	6	
2	MISS'AN (EX CHESTER)	9925	7	
3	WOODFORD	10365	8	
4			9	
5			10	

Spacing Orders: 657150
660370

Location Exception Orders:

Increased Density Orders:

Pending CD Numbers: 201701852
201701853

Special Orders:

Total Depth: 17930

Ground Elevation: 1645

Surface Casing: 100

Depth to base of Treatable Water-Bearing FM: 50

Under Federal Jurisdiction: No

Fresh Water Supply Well Drilled: No

Surface Water used to Drill: Yes

PIT 1 INFORMATION

Type of Pit System: CLOSED Closed System Means Steel Pits

Type of Mud System: WATER BASED

Chlorides Max: 65000 Average: 6500

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: 17-32437

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 08 Twp 17N Rge 12W County BLAINE

Spot Location of End Point: NW NE NE SE

Feet From: SOUTH 1/4 Section Line: 2637

Feet From: EAST 1/4 Section Line: 400

Depth of Deviation: 9480

Radius of Turn: 605

Direction: 181

Total Length: 7500

Measured Total Depth: 17930

True Vertical Depth: 10365

End Point Location from Lease,
Unit, or Property Line: 400

Notes:

Category

Description

HYDRAULIC FRACTURING

4/20/2017 - 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/](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

INTERMEDIATE CASING

4/20/2017 - 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

MEMO

4/20/2017 - G71 - PITS 1 & 2 - CLOSED SYSTEM=STEEL PITS PER OPERATOR REQUEST, PIT 2 - OBM RETURNED TO VENDOR, CUTTINGS PERMITTED PER DISTRICT

PENDING CD - 201701852

4/25/2017 - G60 - (I.O.) 8 & 5-17N-12W
EST MULTIUNIT HORIZONTAL WELL
X657150 MSSP, WDFD
X660370 MSNLC, WDFD
(WDFD IS AN ASSOCIATED COMMON SOURCE OF SUPPLY TO MSNLC/MSSP)
50% 8-17N-12W
50% 5-17N-12W
NO OP. NAMED
REC. 4/25/17 (MCKEOWN)

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.

Category	Description
PENDING CD - 201701853	4/25/2017 - G60 - (I.O.) 8 & 5-17N-12W X657150 MSSP, WDFD X660370 MSNLC, WDFD COMPL. INT. (5-17N-12W) NCT 165' FNL, NCT 0' FSL, NCT 330' FEL COMPL. INT. (8-17N-12W) NCT 0' FNL, NCT 165' FSL, NCT 330' FEL NO OP. NAMED REC. 4/25/17 (MCKEOWN)
SPACING - 657150	4/25/2017 - G60 - (640)(HOR) 5-17N-12W VAC 607852 MSSSD, WDFD VAC 125900 CSTR EXT 654667 MSSP, WDFD, OTHER COMPL. INT. (MSSP) NLT 660' FB COMPL. INT. (WDFD) NLT 165' FNL/FSL, NLT 330' FEL/FWL
SPACING - 660370	4/25/2017 - G60 - (640)(HOR) 8-17N-12W VAC 451726 MSSSD EST MSNLC EXT 657518 WDFD COMPL. INT. (MSNLC) NCT 660' FB COMPL. INT. (WDFD) NCT 165' FNL/FSL NCT 330' FNL/FSL

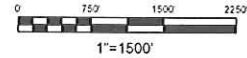
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The duration of this permit is SIX MONTHS, except as otherwise provided by Rule 165: 10-3-1.
Rule 165: 10-3-4 (c) (7) (e) - The Operator shall give 24 Hours notice by telephone to the appropriate District Office of the Conservation Division as to when Surface Casing will be run.

COR Well Location Plat

COUNCIL OAK RESOURCES

S.H.L. Sec. 32-18N-12W I.M.
B.H.L. Sec. 8-17N-12W I.M.

Operator: COUNCIL OAK RESOURCES
Lease Name and No.: TWIN OAKS 1-5-8XH
Footage: 207' FSL - 355' FEL GR. ELEVATION: 1645' Good Site? YES
Section: 32 Township: 18N Range: 12W I.M.
County: Blaine State of Oklahoma
Terrain at Loc.: Location fell in pasture.



GPS DATUM
NAD - 83
OK NORTH ZONE

GPS DATUM
NAD - 27
OK NORTH ZONE

Surface Hole Loc.:
Lat: 35°59'09.11"N
Lon: 98°29'43.04"W
X: 1821970
Y: 359245

Surface Hole Loc.:
Lat: 35°59'08.97"N
Lon: 98°29'41.75"W
X: 1853572
Y: 359221

Landing Point/Last Perf:
Lat: 35°59'05.44"N
Lon: 98°29'43.61"W
X: 1821921
Y: 358874

Landing Point/Last Perf:
Lat: 35°59'05.29"N
Lon: 98°29'42.32"W
X: 1853523
Y: 358849

First Perf:
Lat: 35°57'51.21"N
Lon: 98°29'44.85"W
X: 1821780
Y: 351369

First Perf:
Lat: 35°57'51.06"N
Lon: 98°29'43.57"W
X: 1853382
Y: 351344

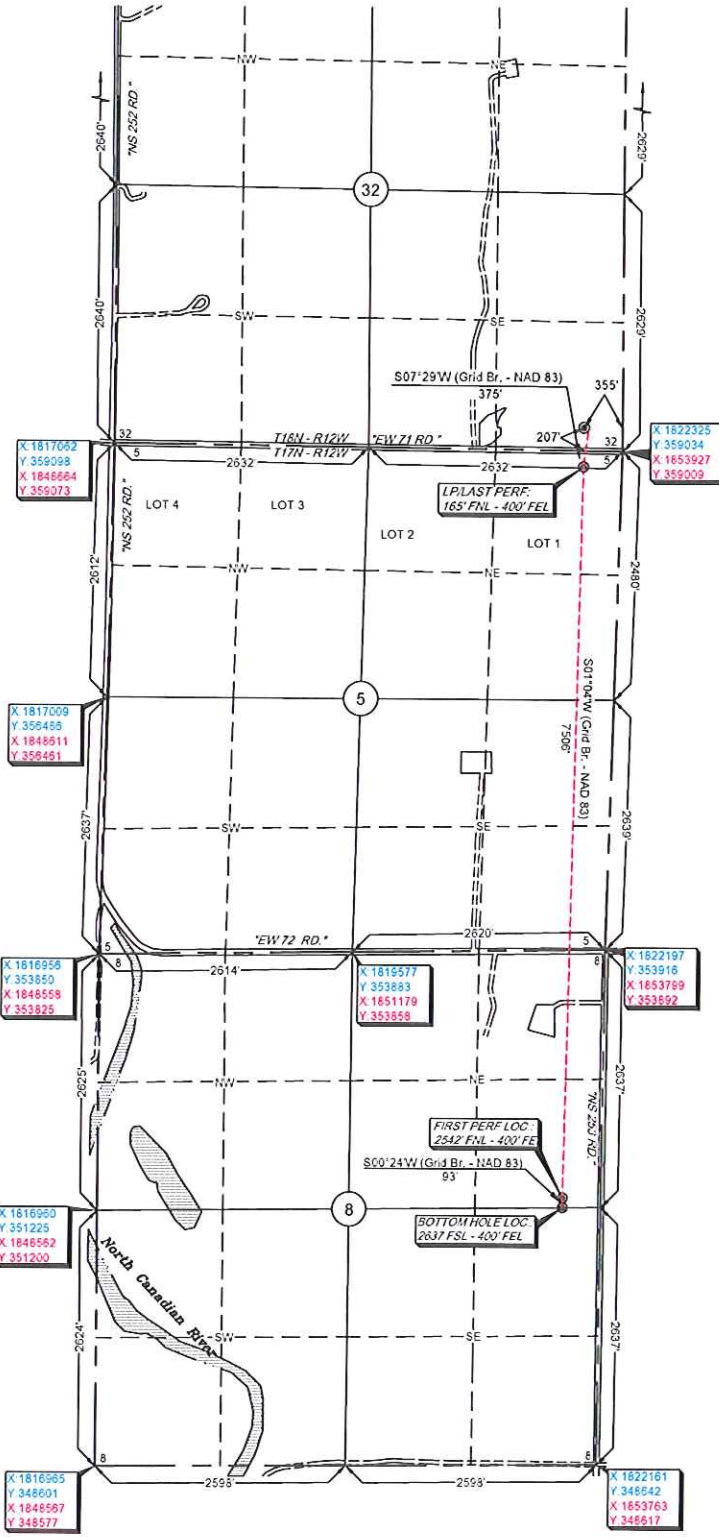
Bottom Hole Loc.:
Lat: 35°57'50.29"N
Lon: 98°29'44.86"W
X: 1821779
Y: 351276

Bottom Hole Loc.:
Lat: 35°57'50.14"N
Lon: 98°29'43.57"W
X: 1853381
Y: 351251

Quarter Section distances may be assumed from a Government Survey Plat or assumed at a proportionate distance from opposing section corners, or occupation thereof, and may not have been measured on-the-ground, and further, does not represent a true boundary survey.

NOTE: X and Y data shown hereon for Section Corners may NOT have been surveyed on-the-ground, and further, does NOT represent a true Boundary Survey.

Please note that this location was staked on the ground under the supervision of a Licensed Professional Land Surveyor, but the accuracy of this survey is not guaranteed. Please contact Arkoma Surveying and Mapping promptly if any inconsistency is determined. GPS data is observed from RTK - GPS



survey and plat by,
Arkoma Surveying and Mapping, PLLC
P.O. Box 238 Wilburton, OK 74578
Ph. 918-465-5711 Fax 918-465-5030
Certificate of Authorization No. 5348
Expires June 30, 2018
Invoice #7028-A
Date Staked: 04/07/17 By: R.L.
Date Drawn: 04/10/17 By: P.B.
Rev. First Perf & BHL: 04/12/17 By: R.S.

Certification:
This is to certify that this Well Location Plat represents the results of a survey made on the ground performed under the supervision of the undersigned.

Lance G. Mathis 04/12/17
LANCE G. MATHIS OK LPLS 1664

