

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

API NUMBER: 071 24901

Approval Date: 12/12/2018

Expiration Date: 06/12/2020

Straight Hole Oil & Gas

PERMIT TO DRILL

WELL LOCATION: Sec: 18 Twp: 29N Rge: 3E County: KAY

SPOT LOCATION: FEET FROM QUARTER: FROM SOUTH FROM WEST

SECTION LINES: 330 535

Lease Name: BRUCE Well No: 1 Well will be 330 feet from nearest unit or lease boundary.

Operator Name: HADAWAY CONSULTING & ENGINEERING LLC

Telephone: 8063239811

OTC/OCC Number: 22787 0

HADAWAY CONSULTING & ENGINEERING LLC
PO BOX 188
CANADIAN, TX 79014-0188

DAVID BRUCE
942 NORTH PALM
PONCA CITY OK 74601

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

Name	Depth	Name	Depth
1 CLEVELAND	2871	6	
2 RED FORK	3292	7	
3		8	
4		9	
5		10	

Spacing Orders: No Spacing

Location Exception Orders:

Increased Density Orders:

Pending CD Numbers: 201808589

Special Orders:

Total Depth: 3325

Ground Elevation: 1160

Surface Casing: 300

Depth to base of Treatable Water-Bearing FM: 210

Under Federal Jurisdiction: No

Fresh Water Supply Well Drilled: Yes

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: 5000 Average: 3000

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: OSCAR

D. One time land application -- (REQUIRES PERMIT) PERMIT NO: 18-35950
H. CLOSED SYSTEM=STEEL PITS PER OPERATOR REQUEST

Additional Surface Owner

Address

City, State, Zip

PHILLIP BRUCE

208 WEST KANSAS AVENUE

ARKANSAS CITY, KS 67005

RONALD BRUCE

14279 US 166 HIGHWAY

ARKANSAS CITY, KS 67005

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.

Notes:

Category

Description

HYDRAULIC FRACTURING

12/3/2018 - 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: OCCWEB.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

PENDING CD - 201808589

12/12/2018 - G75 - (40) W2 NE4 18-29N-3E
EST CLVD, RDFK
REC 11-5-2018 (MILLER)

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.

071 24901 BRUCE 1

MillbraeEnergy Well Location Plat

Sec. 18-29N-3E I.M.

Operator: MILLBRAE ENERGY

Lease Name and No.: BRUCE #1

Footage: 330' FSL - 2113' FEL (NE/4) Gr. Elevation: 1160'

Section: 18 Township: 29N Range: 3E I.M.

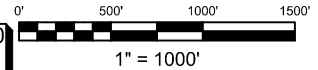
County: Kay State of Oklahoma

Terrain at Loc.: Location fell on side of a hill, but somewhat flat.

API 071-24901



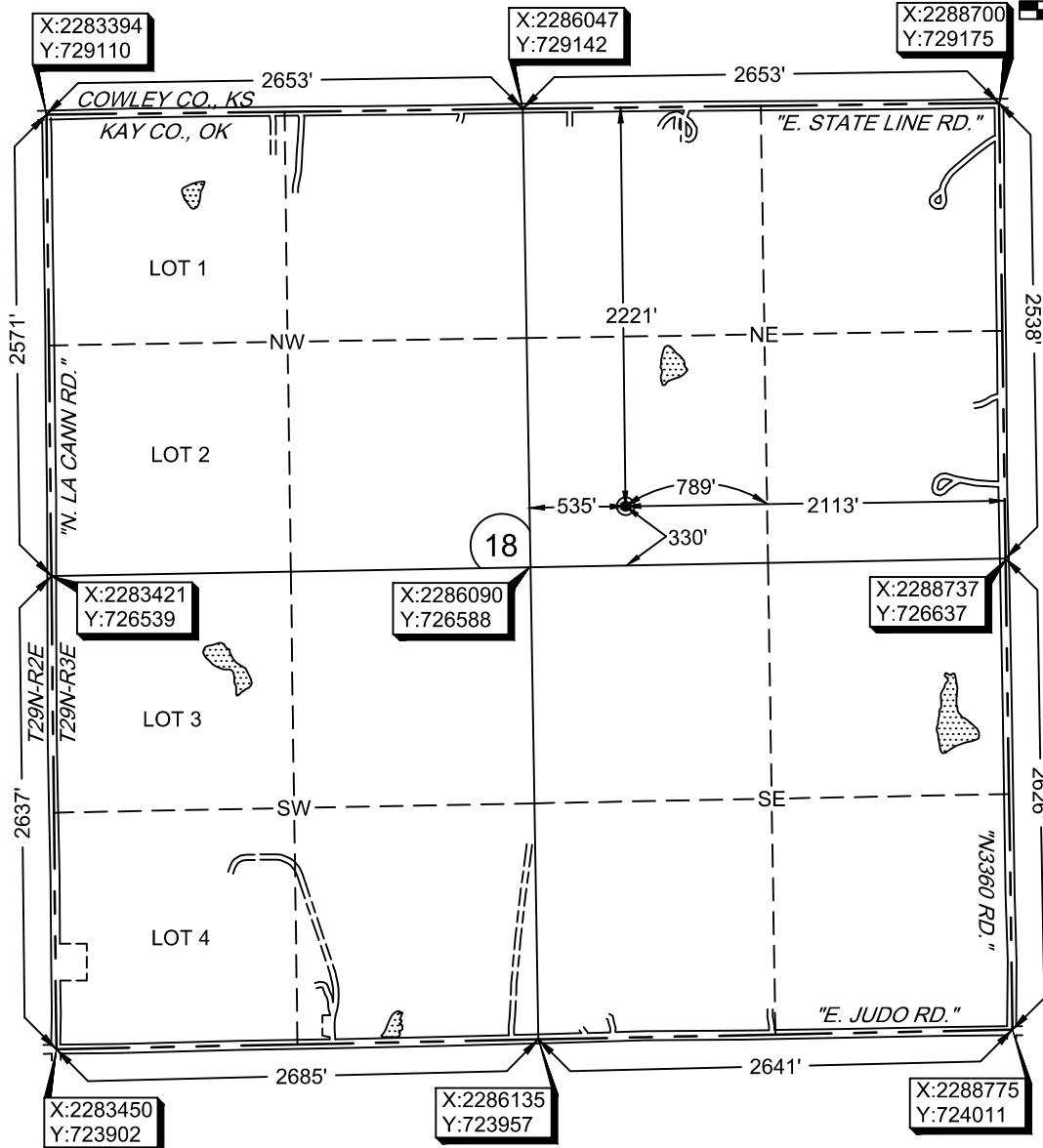
All bearings shown
are geodetic bearings
unless noted.



GPS DATUM
NAD 27
OK NORTH ZONE

Surface Hole Loc.:
Lat: 36°59'34.51"N
Lon: 97°01'07.26"W
Lat: 36.99291889
Lon: -97.01868244
X: 2286619
Y: 726928

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 consult Arkoma Surveying and Mapping, PLLC for any inconsistency is determined. GPS data is obtained from RTK - GPS. 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. 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.



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, 2020

Invoice #8251

Date Staked: 10/15/18 By: D.K.

Date Drawn: 10/18/18 By: D.B.

Revise to NAD 27: 10/23/18 By: R.M.

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
LANCE G. MATHIS

10/23/18

OK LPLS 1664

