

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

API NUMBER: 073 26177 B

Approval Date: 03/15/2019
Expiration Date: 09/15/2020

Horizontal Hole Oil & Gas

Amend reason: CHANGE SHL, BHL, ELEVATION, OPERATOR,
WELL NAME AND NUMBER

AMEND PERMIT TO DRILL

WELL LOCATION: Sec: 04 Twp: 18N Rge: 6W County: KINGFISHER
SPOT LOCATION: FEET FROM QUARTER: FROM NORTH FROM EAST
SECTION LINES: 190 2246

Lease Name: GUS 18-06-04 Well No: 1MH Well will be 190 feet from nearest unit or lease boundary.
Operator Name: CHISHOLM OIL & GAS OPERATING LLC Telephone: 9184886400 OTC/OCC Number: 23991 0

CHISHOLM OIL & GAS OPERATING LLC
6100 S YALE AVE STE 1700
TULSA, OK 74136-1921

DOROTHY BURSHIK TURNER
290 BUCCANEER WAY
CORONADO CA 92118

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

	Name	Depth	Name	Depth
1	MISSISSIPPIAN (LESS CHESTER)	6976	6	
2	WOODFORD	7501	7	
3			8	
4			9	
5			10	

Spacing Orders: 665349 Location Exception Orders: 694895 Increased Density Orders:
Pending CD Numbers: Special Orders:

Total Depth: 12448 Ground Elevation: 1171 Surface Casing: 460 Depth to base of Treatable Water-Bearing FM: 220

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: 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 AP/TE DEPOSIT

Pit Location Formation: TERRACE

D. One time land application -- (REQUIRES PERMIT) PERMIT NO: 18-34949
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 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

Sec 04 Twp 18N Rge 6W County KINGFISHER

Spot Location of End Point: SE SW SW SE

Feet From: SOUTH 1/4 Section Line: 150

Feet From: EAST 1/4 Section Line: 2305

Depth of Deviation: 6619

Radius of Turn: 382

Direction: 181

Total Length: 5229

Measured Total Depth: 12448

True Vertical Depth: 7563

End Point Location from Lease,
Unit, or Property Line: 150

Notes:

Category

Description

HYDRAULIC FRACTURING

2/22/2019 - 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

LOCATION EXCEPTION - 694895

9/19/2019 - GC2 - (I.O.) E2 4-18N-6W

X665349 MSNLC, WDFD

COMPL. INT. NCT 150' FSL, NCT 150' FNL, NCT 330' FWL, NCT 660' FEL OF E2 OF 4-18N-6W GASTAR EXPLORATION INC. (BOUGHT IN ITS ENTIRETY BY CHISHOLM OIL & GAS OPERATING LLC)

4-18-2019

SPACING - 665349

9/19/2019 - GC2 - (320)(HOR) E2 4-18N-6W

VAC 48520 MSSSD E2

EST MSNLC, WDFD, OTHER

COMPL. INT. (MSSP) NLT 660' FB

COMPL. INT. (WDFD) NLT 165' FNL/FSL, NLT 330' FEL/FWL



Well Location Plat

Sec. 4-18N-6W I.M.

Operator: CHISHOLM OIL & GAS OPERATING, LLC

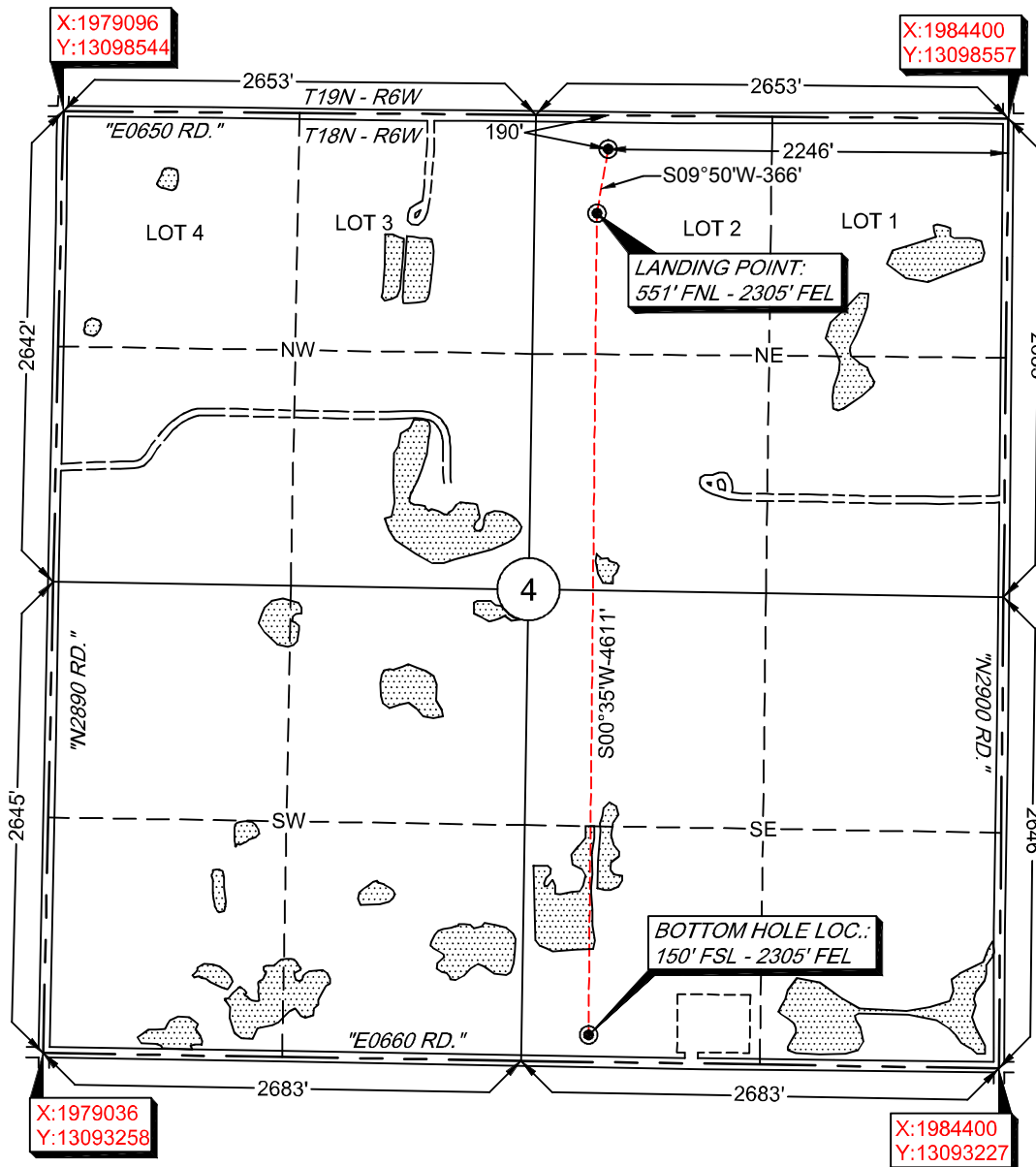
Lease Name and No.: GUS 18-06-04 1MH

Footage: 190' FNL - 2246' FEL Gr. Elevation: 1171'

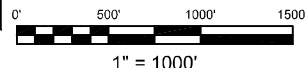
NE/4-NW/4-NW/4-NE/4 Section: 4 Township: 18N Range: 6W I.M.

County: Kingfisher State of Oklahoma

Terrain at Loc.: Location fell on existing location.



All bearings shown are grid bearings.



1" = 1000'

GPS DATUM

NAD 83

NAD 27

UTM - ZONE 14

Surface Hole Loc.:

Lat: 36°04'20.50"N

Lon: 97°50'37.01"W

Lat: 36.07232249

Lon: -97.84328100

X:1982154

Y:13098362

Landing Point:

Lat: 36°04'16.94"N

Lon: 97°50'37.78"W

Lat: 36.07133265

Lon: -97.84349422

X:1982095

Y:13098001

Bottom Hole Loc.:

Lat: 36°03'31.34"N

Lon: 97°50'38.44"W

Lat: 36.05866621

Lon: -97.84367976

X:1982095

Y:13093390

-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.

-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

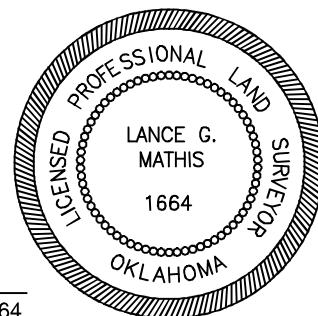
Certification:

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

08/26/19

OK LPLS 1664



Invoice #8737-A

Date Staked: 08/21/19 By: B.A.

Date Drawn: 08/22/19 By: C.K.