

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

API NUMBER: 043 23709

Approval Date: 08/14/2019

Expiration Date: 02/14/2021

Horizontal Hole
Multi Unit

Oil & Gas

PERMIT TO DRILL

WELL LOCATION: Sec: 30 Twp: 18N Rge: 14W County: DEWEY

SPOT LOCATION: ☐ SW ☐ SE ☐ SE ☐ SE FEET FROM QUARTER: FROM SOUTH FROM EAST

SECTION LINES: 270 350

Lease Name: CHAIN

Well No: 19-30-1XH

Well will be 270 feet from nearest unit or lease boundary.

Operator DERBY EXPLORATION LLC
Name:

Telephone: 4056393786

OTC/OCC Number: 24143 0

DERBY EXPLORATION LLC
PO BOX 779
OKLAHOMA CITY, OK 73101-0779

KELLY AND AMBER CHAIN
65741 NORTH 2370
CANTON OK 73101

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

	Name	Depth	Name	Depth
1	MISSISSIPPIAN	9595	6	
2	WOODFORD	11245	7	
3			8	
4			9	
5			10	

Spacing Orders: 689483
687569
307029
95923

Location Exception Orders:

Increased Density Orders:

Pending CD Numbers: 201902936
201902937

Special Orders:

Total Depth: 20890

Ground Elevation: 1924

Surface Casing: 640

Depth to base of Treatable Water-Bearing FM: 390

Under Federal Jurisdiction: No

Fresh Water Supply Well Drilled: No

Surface Water used to Drill: Yes

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 AP/TE DEPOSIT

Pit Location Formation: TERRACE

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

PERMIT NO: 19-36856

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 19 Twp 18N Rge 14W County DEWEY

Spot Location of End Point: N2 N2 NE NE

Feet From: NORTH 1/4 Section Line: 50

Feet From: EAST 1/4 Section Line: 660

Depth of Deviation: 13116

Radius of Turn: 478

Direction: 358

Total Length: 7023

Measured Total Depth: 20890

True Vertical Depth: 11245

End Point Location from Lease,
Unit, or Property Line: 50

Notes:

Category

Description

HYDRAULIC FRACTURING

8/1/2019 - 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: 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

8/1/2019 - 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

8/1/2019 - G71 - PITS 1 & 2 - CLOSED SYSTEM=STEEL PITS PER OPERATOR REQUEST, PIT 2 - OBM RETURNED TO VENDOR, CUTTINGS PERMITTED PER DISTRICT

Category	Description
PENDING CD - 201902936	8/14/2019 - GC2 - (I.O) 19 & 30-18N-14W EST MULTIUNIT HORIZONTAL WELL X689483 MSSP, WDFD 19-18N-14W X687569 MSSP, WDFD 30-18N-14W (WDFD ASSOCIATED COMMON SOURCE OF SUPPLY TO MSSP) 50% 19-18N-14W 50% 30-18N-14W NO OP. NAMED REC. 6-18-2019 (NORRIS)
PENDING CD - 201902937	8/14/2019 - GC2 - (I.O) 19 & 30-18N-14W X689483 MSSP, WDFD 19-18N-14W X687569 MSSP, WDFD 30-18N-14W SHL NCT 270' FSL, NCT 330' FEL 30-18N-14W COMPL. INT. (30-18N-14W) NCT 0' FNL, NCT 165' FSL, NCT 330' FEL COMPL. INT. (19-18N-14W) NCT 165' FNL, NCT 0' FSL, NCT 330' FEL NO OP. NAMED REC. 6-18-2019 (NORRIS)
SPACING - 687569	8/14/2019 - GC2 - (640)(HOR) 30-18N-14W EST MSSP, WDFD, OTHER VAC 307029 MSSLM, KDRK, WDFD, OTHER COMPL. INT. (MSSP) NCT 660' FB COMPL. INT. (WDFD) NCT 165' FNL/FSL & NCT 330' FEL/FWL
SPACING - 689483	8/14/2019 - GC2 - (640)(HOR) 19-18N-14W EST MSSP, WDFD, OTHER VAC 95923 CSTR VAC 307029 MSSLM, KDRK, WDFD, OTHER COMPL. INT. (MSSP) NCT 660' FB COMPL. INT. (WDFD) NCT 165' FNL/FSL & NCT 330' FEL/FWL

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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.

DERBY Well Location Plat

S.H.L. Sec. 30-18N-14W I.M.
B.H.L. Sec. 19-18N-14W I.M.

Operator: DERBY EXPLORATION, LLC
Lease Name and No.: CHAIN 19-30-1XH
Footage: 270' FSL - 350' FEL Gr. Elevation: 1924'
Section: 30 Township: 18N Range: 14W I.M.
County: Dewey State of Oklahoma
Terrain at Loc.: Location fell in a pasture, North and West of existing fences.

API: 043-23709



All bearings shown
are grid bearings.

0' 660' 1320' 2640'

1" = 1320'

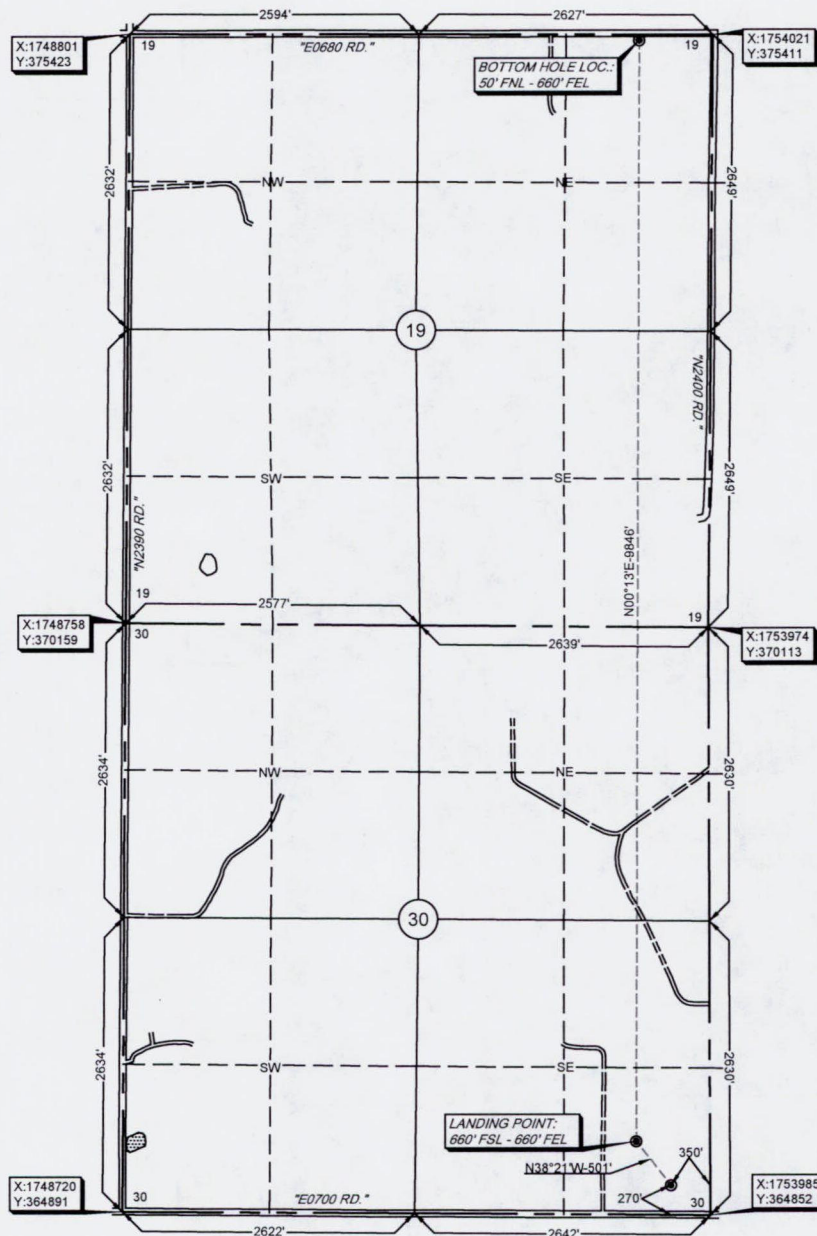
GPS DATUM
NAD 83
OK NORTH ZONE

Surface Hole Loc.:
Lat: 36°00'03.01"N
Lon: 98°43'35.08"W
Lat: 36.00083594
Lon: -98.72641087
X: 1753634
Y: 365125

Landing Point:
Lat: 36°00'06.87"N
Lon: 98°43'38.90"W
Lat: 36.00190724
Lon: -98.72747147
X: 1753323
Y: 365517

Bottom Hole Loc.:
Lat: 36°01'44.23"N
Lon: 98°43'39.34"W
Lat: 36.02895405
Lon: -98.72759386
X: 1753361
Y: 375363

-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 you have any questions or concerns. This plat is for informational purposes only. -NOTE: X and Y data shown herein 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 Survey of a proposed well location is not a true Boundary Survey. -Location shown on this plat is based on a true Boundary Survey, 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 # 8598-B
Date Staked: 04/15/19 By: J.W.
Date Drawn: 04/17/19 By: E.W.
Lease Name Change: 05/20/19 By: R.S.

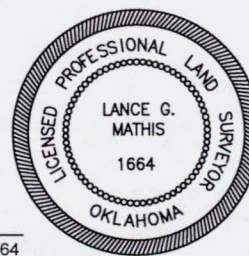
Certification:

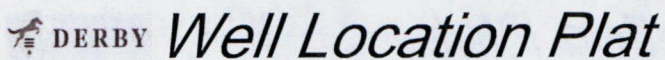
This is to certify that this Well Location Plat represents the results of a survey made on the ground performed under the supervision of the undersigned.

Lance G. Mathis
LANCE G. MATHIS

07/30/19

OK LPLS 1664

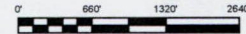




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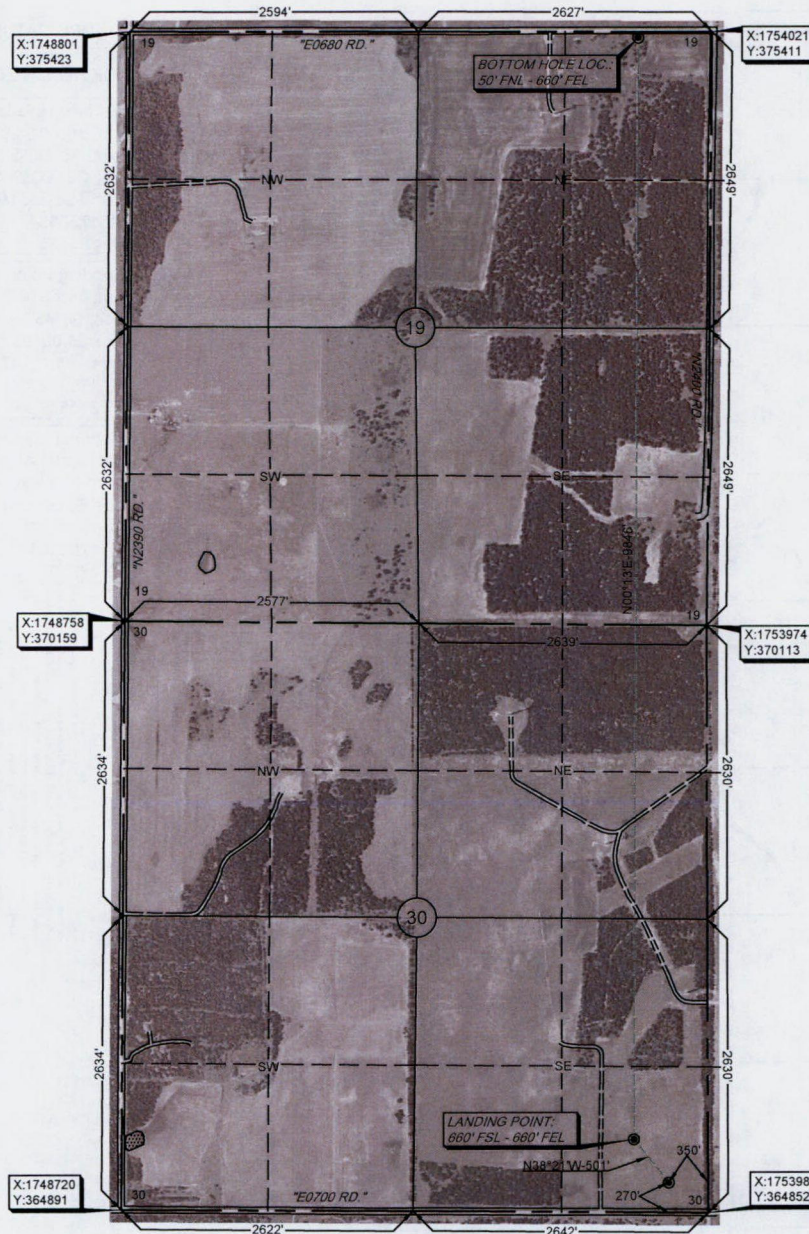


All bearings shown
are grid bearings.


$$1'' = 1320'$$


Bottom Hole Loc.:
Lat: 36°01'44.23"N
Lon: 98°43'39.34"W
Lat: 36.02895405
Lon: -98.72759386
X: 1753361
Y: 375363

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LANCE G. MATHIS OK LPLS 1664

