

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

API NUMBER: 043 23711

Approval Date: 08/20/2019

Expiration Date: 02/20/2021

Horizontal Hole
Multi Unit
Oil & Gas

PERMIT TO DRILL

WELL LOCATION: Sec: 26 Twp: 18N Rge: 14W County: DEWEY
SPOT LOCATION: ☐ SW ☐ NE ☐ SE ☐ NE FEET FROM QUARTER: FROM NORTH FROM EAST
SECTION LINES: 1803 385

Lease Name: TITUS Well No: 24-25-1XH Well will be 385 feet from nearest unit or lease boundary.
Operator DERBY EXPLORATION LLC Telephone: 4056393786 OTC/OCC Number: 24143 0
Name:

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

DEBRA MAY DAVIS & DEBRA MAY LIFE
12183 NARROW LANE
BROOKWOOD AL 35444

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

	Name	Depth	Name	Depth
1	MISSISSIPPIAN	9200	6	
2	WOODFORD	10820	7	
3			8	
4			9	
5			10	

Spacing Orders: 693879
684543

Location Exception Orders:

Increased Density Orders:

Pending CD Numbers: 201903501
201903502

Special Orders:

Total Depth: 18298 Ground Elevation: 1752 Surface Casing: 470 Depth to base of Treatable Water-Bearing FM: 220

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: 19-36853
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 24 Twp 18N Rge 14W County DEWEY

Spot Location of End Point: N2 N2 NW NW

Feet From: NORTH 1/4 Section Line: 50

Feet From: WEST 1/4 Section Line: 660

Depth of Deviation: 9737

Radius of Turn: 478

Direction: 10

Total Length: 7810

Measured Total Depth: 18298

True Vertical Depth: 10820

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 - 201903501	<p>8/20/2019 - G56 - (E.O.) 24 & 25-18N-14W EST MULTIUNIT HORIZONTAL WELL X684543 MSSP, WDFD, OTHER 24-18N-14W X693879 MSSP, WDFD, OTHER 25-18N-14W (WDFD IS AN ADJACENT COMMON SOURCE OF SUPPLY TO MSSP) 50% 24-18N-14W*** 50% 25-18N-14W*** DERBY EXPLORATION, LLC 7/26/2019 (P. PORTER)</p> <p>***S/B 67% 24-18N-14W; 33% 25-18N-14W PER SURVEY PLAT; WILL BE CORRECTED AT FINAL HEARING PER ATTORNEY FOR OPERATOR</p>
PENDING CD - 201903502	<p>8/20/2019 - G56 - (E.O.) 24 & 25-18N-14W X684543 MSSP, WDFD, OTHER 24-18N-14W X693879 MSSP, WDFD, OTHER 25-18N-14W X165:10-3-28(C)(2)(B) MSSP MAY BE CLOSER THAN 600' TO EXISTING AND/OR PROPOSED WELLS COMPL INT (25-18N-14W) NCT 165' FSL, NCT 0' FNL, NCT 330' FWL COMPL INT (24-18N-14W) NCT 0' FSL, NCT 165' FNL, NCT 330' FWL DERBY EXPLORATION, LLC REC 7/26/2019 (P. PORTER)</p>
SPACING - 684543	<p>8/20/2019 - G56 - (640)(HOR) 24-18N-14W VAC 67943 CRLM VAC 296906 MSSLM, KDRK, WDFD, OTHER EST MSSP, WDFD, OTHER POE TO BHL (MSSP) NCT 660' FB POE TO BHL (WDFD) NCT 165' FNL/FSL, NCT 330' FEL/FWL</p>
SPACING - 693879	<p>8/20/2019 - G56 - (640)(HOR) 25-18N-14W VAC 93130 CSTR VAC 269914 KDRK, WDFD, OTHER VAC 391320 MSSLM E2 EST MSSP, WDFD, OTHER COMPL INT (MSSP) NCT 660' FB COMPL INT (WDFD) NCT 165' FNL/FSL, NCT 330' FEL/FWL (COEXIST WITH W2 SP # 391320 MSSLM)</p>

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.

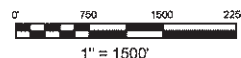
DERBY Well Location Plat

S.H.L. Sec. 26-18N-14W I.M.
B.H.L. Sec. 24-18N-14W I.M.

Operator: DERBY EXPLORATION, LLC
Lease Name and No.: TITUS 24-25-1XH
Footage: 1803' FNL - 385' FEL Gr. Elevation: 1752'
Section: 26 Township: 18N Range: 14W I.M.
County: Dewey State of Oklahoma
Terrain at Loc.: Location fell in an open field.



All bearings shown
are grid bearings.

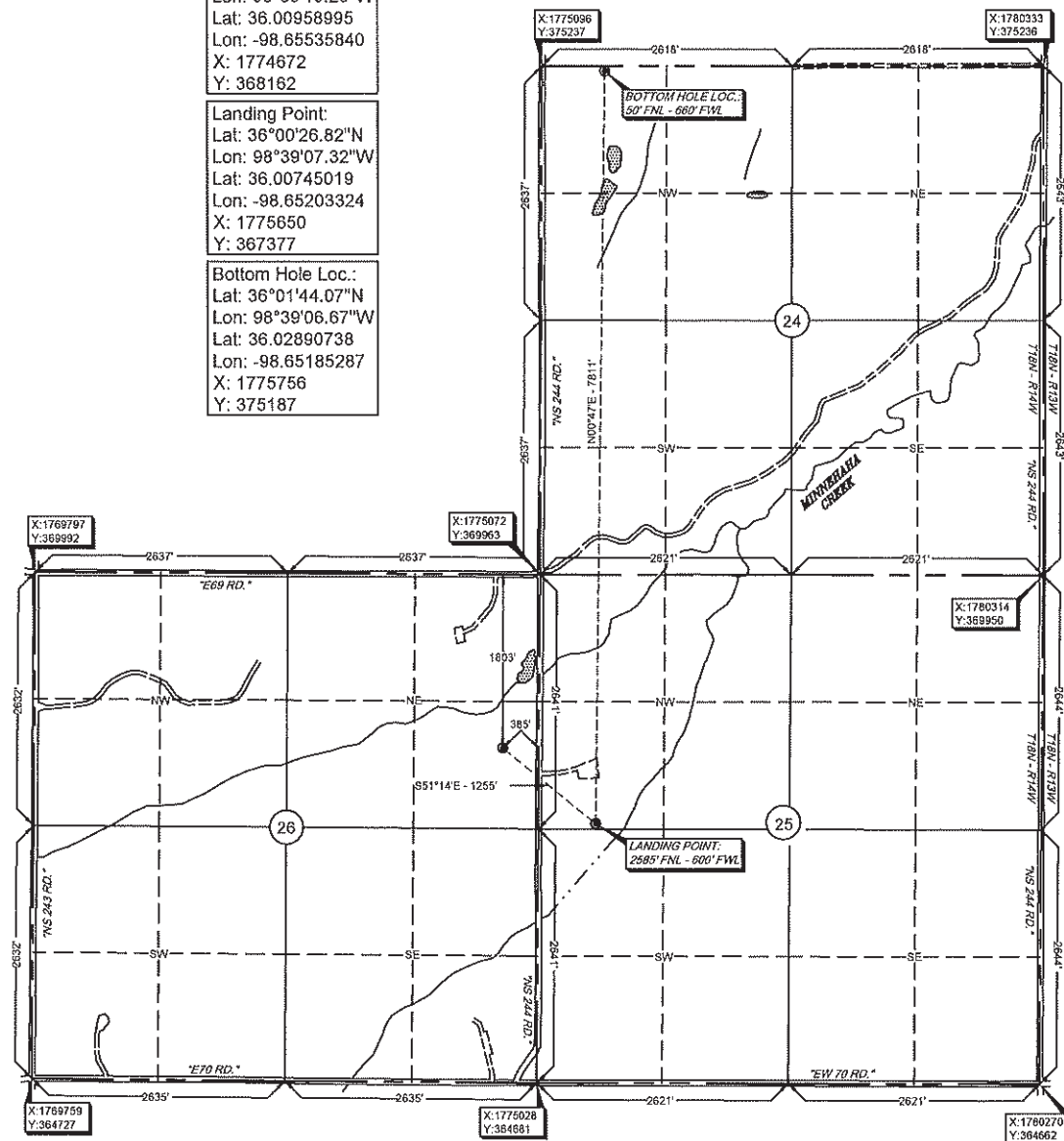


GPS DATUM
NAD 83
OK NORTH ZONE

Surface Hole Loc.:
Lat: 36°00'34.52"N
Lon: 98°39'19.29"W
Lat: 36.00958995
Lon: -98.65535840
X: 1774672
Y: 368162

Landing Point:
Lat: 36°00'26.82"N
Lon: 98°39'07.32"W
Lat: 36.00745019
Lon: -98.65203324
X: 1775650
Y: 367377

Bottom Hole Loc.:
Lat: 36°01'44.07"N
Lon: 98°39'06.67"W
Lat: 36.02890738
Lon: -98.65185287
X: 1775756
Y: 375187



*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

Invoice #8675-A-B
Date Staked: 05/30/19 By: D.K.
Date Drawn: 05/31/19 By: C.K.
Added LP/BHL: 07/03/19 By: J.H.

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

07/08/19

OK LPLS 1664

