

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

API NUMBER: 011 24217

Approval Date: 05/21/2019

Expiration Date: 11/21/2020

Horizontal Hole
Oil & Gas
Multi Unit

PERMIT TO DRILL

WELL LOCATION: Sec: 04 Twp: 18N Rge: 13W County: BLAINE
SPOT LOCATION: ☐ NW ☐ NE ☐ NE ☐ NE FEET FROM QUARTER: FROM NORTH FROM EAST
SECTION LINES: 265 444

Lease Name: SEIFERT Well No: 4-9-1XH Well will be 265 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

HARRIET JANE SEARS
5557 SOUTH DELAWARE COURT
TULSA OK 74105

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

	Name	Depth	Name	Depth
1	MISSISSIPPIAN	8535	6	
2	WOODFORD	10005	7	
3			8	
4			9	
5			10	

Spacing Orders: No Spacing

Location Exception Orders:

Increased Density Orders:

Pending CD Numbers: 201902100
201902101
201902102
201902103

Special Orders:

Total Depth: 17077 Ground Elevation: 1576 Surface Casing: 360 Depth to base of Treatable Water-Bearing FM: 110

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 ALLUVIAL

Pit Location Formation: ALLUVIUM

D. One time land application -- (REQUIRES PERMIT) PERMIT NO: 19-36539
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 ALLUVIAL

Pit Location Formation: ALLUVIUM

HORIZONTAL HOLE 1

Sec 09 Twp 18N Rge 13W County BLAINE

Spot Location of End Point: S2 S2 SE NE

Feet From: NORTH 1/4 Section Line: 2460

Feet From: EAST 1/4 Section Line: 660

Depth of Deviation: 8750

Radius of Turn: 808

Direction: 185

Total Length: 7058

Measured Total Depth: 17077

True Vertical Depth: 10005

End Point Location from Lease,
Unit, or Property Line: 660

Additional Surface Owner	Address	City, State, Zip
CARL AND WILLA SEIFERT	1509 SWEETBRIAR COURT	EDMOND, OK 73034

Notes:

Category

Description

HYDRAULIC FRACTURING

5/15/2019 - 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

INTERMEDIATE CASING

5/15/2019 - 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

5/15/2019 - G71 - PITS 1 & 2 - CLOSED SYSTEM=STEEL PITS (REQUIRED - NORTH CANADIAN RIVER), PIT 2 - OBM RETURNED TO VENDOR, CUTTINGS PERMITTED PER DISTRICT

This permit does not address the right of entry or settlement of surface damages.

011 24217 SEIFERT 4-9-1XH

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 - 201902100	5/21/2019 - G58 - (E.O.)(640)(HOR 4-18N-13W VAC 428674 CSTR EST MSSP, WDFD, OTHER POE TO BHL (MSSP) NLT 660' FB POE TO BHL (WDFD) NLT 165' FNL & FSL, NLT 330' FEL & FWL REC 5/14/2019 (P. PORTER)
PENDING CD - 201902101	5/21/2019 - G58 - (E.O.)(640)(HOR) 9-18N-13W VAC 245032 UNCCR, MSSLM EST MSSP, WDFD, OTHER POE TO BHL (MSSP) NLT 660' FB POE TO BHL (WDFD) NLT 165' FNL & FSL, NLT 330' FEL & FWL REC 5/14/2019 (P. PORTER)
PENDING CD - 201902102	5/21/2019 - G58 - (E.O.) 4 & 9-18N-13W EST MULTIUNIT HORIZONTAL WELL X201902100 MSSP, WDFD X201902101 MSSP, WDFD (WDFD IS ADJACENT CSS TO MSSP) 66.67% 4-18N-13W 33.33% 9-18N-13W NO OP. NAMED REC 5/14/2019 (P. PORTER)
PENDING CD - 201902103	5/21/2019 - G58 - (E.O.) 4 & 9-18N-13W X201902100 MSSP, WDFD X201902101 MSSP, WDFD COMPL. INT. 4-18N-13W NCT 165' FNL, CNT 0' FSL, NCT 330' FEL COMPL. INT. 9-18N-13W NCT 0' FNL, NCT 165' FSL, NCT 330' FEL OF N2 NO OP. NAMED REC 5/14/2019 (P. PORTER)

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

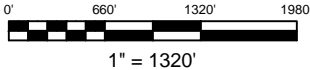
Well Location Plat

S.H.L. Sec. 4-18N-13W I.M.
B.H.L. Sec. 9-18N-13W I.M.

Operator: DERBY EXPLORATION, LLC
Lease Name and No.: SEIFERT 4-9-1XH 011-24217
Footage: 265' FNL - 444' FEL Gr. Elevation: 1576'
Section: 4 Township: 18N Range: 13W I.M.
County: Blaine State of Oklahoma
Terrain at Loc.: Location fell in timber, South of an existing fence, and East and North of the North Canadian River.



All bearings shown
are grid bearings.



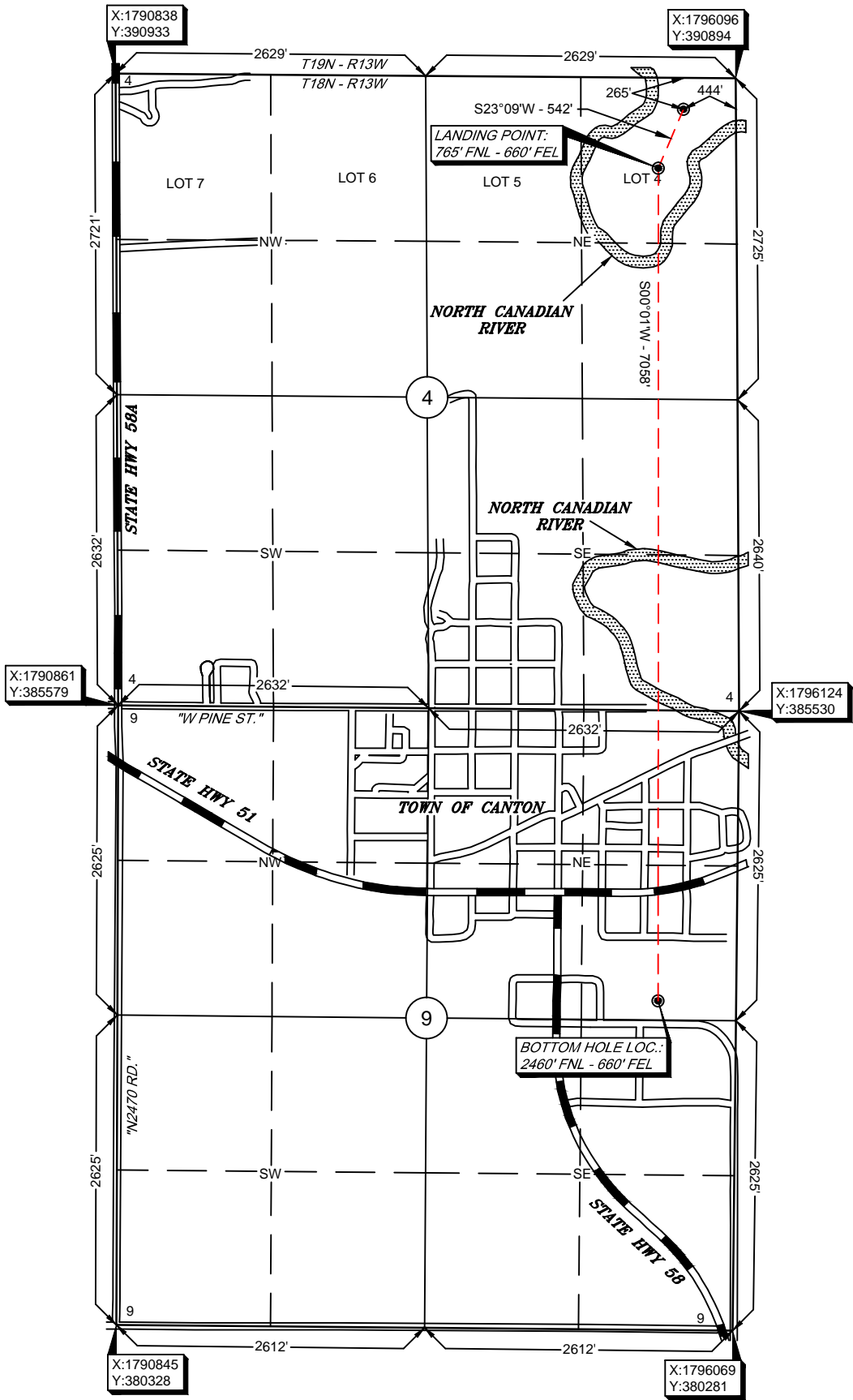
GPS DATUM
NAD 83
OK NORTH ZONE

Surface Hole Loc.:
Lat: 36°04'18.07"N
Lon: 98°35'05.56"W
Lat: 36.07168521
Lon: -98.58487755
X: 1795653
Y: 390632

Landing Point:
Lat: 36°04'13.12"N
Lon: 98°35'08.12"W
Lat: 36.07031244
Lon: -98.58558842
X: 1795440
Y: 390134

Bottom Hole Loc.:
Lat: 36°03'03.33"N
Lon: 98°35'07.62"W
Lat: 36.05092400
Lon: -98.58544930
X: 1795439
Y: 383076

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 #8549
Date Staked: 03/20/19 By: J.W.
Date Drawn: 03/25/19 By: E.W.
Add Landing Point: 03/27/19 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

03/29/19
OK LPLS 1664

