

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

API NUMBER: 017 25423

Approval Date: 03/26/2019

Expiration Date: 09/26/2020

Horizontal Hole
Oil & Gas
Multi Unit

PERMIT TO DRILL

WELL LOCATION: Sec: 19 Twp: 14N Rge: 6W County: CANADIAN
SPOT LOCATION: ☐ SE ☐ SW ☐ SE ☐ SW FEET FROM QUARTER: FROM SOUTH FROM WEST
SECTION LINES: 300 1850

Lease Name: WM WALLACE Well No: 1406 2H-18X Well will be 300 feet from nearest unit or lease boundary.
Operator Name: NEWFIELD EXPLORATION MID-CON INC Telephone: 2812105100; 9188781 OTC/OCC Number: 20944 0

NEWFIELD EXPLORATION MID-CON INC
4 WATERWAY SQUARE PL STE 100
THE WOODLANDS, TX 77380-2764

CLYDE LEON WALLACE AND SUSAN KIM WALLACE
6004 HUMMINGBIRD CIRCLE
EL RENO OK 73036

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

	Name	Depth	Name	Depth
1	MISSISSIPPIAN	8203	6	
2	WOODFORD	8649	7	
3			8	
4			9	
5			10	

Spacing Orders: 608194 Location Exception Orders: 691949 Increased Density Orders: 689881
691955 689882
689827
689828

Pending CD Numbers: 201809721

Special Orders:

Total Depth: 19331 Ground Elevation: 1248 Surface Casing: 1500 Depth to base of Treatable Water-Bearing FM: 270

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 BED AQUIFER

Pit Location Formation: DUNCAN

D. One time land application -- (REQUIRES PERMIT) PERMIT NO: 19-36163

E. Haul to Commercial pit facility: Sec. 31 Twn. 12N Rng. 8W Cnty. 17 Order No: 587498

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 BED AQUIFER

Pit Location Formation: DUNCAN

HORIZONTAL HOLE 1

Sec 18 Twp 14N Rge 6W County CANADIAN

Spot Location of End Point: NE NW NE NW

Feet From: NORTH 1/4 Section Line: 85

Feet From: WEST 1/4 Section Line: 1754

Depth of Deviation: 8182

Radius of Turn: 516

Direction: 359

Total Length: 10339

Measured Total Depth: 19331

True Vertical Depth: 8649

End Point Location from Lease,
Unit, or Property Line: 85

Additional Surface Owner	Address	City, State, Zip
KATHRYN ELIZABETH KREMEIER A	19430 N. SHEPARD AVE.	OKARCHE, OK 73762

Notes:

Category

Description

DEEP SURFACE CASING

1/31/2019 - G71 - APPROVED; NOTIFY OCC FIELD INSPECTOR IMMEDIATELY OF ANY LOSS OF CIRCULATION OR FAILURE TO CIRCULATE CEMENT TO SURFACE ON ANY CONDUCTOR OR SURFACE CASING

HYDRAULIC FRACTURING

1/31/2019 - 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

INCREASED DENSITY - 689827

3/19/2019 - G58 - 18-14N-6W**
X608194 WDFD
7 WELLS
NEWFIELD EXPLORATION MID-CONTINENT INC.
1/16/2019

**WRONG WELL NAME IN HEADER S/B WM WALLACE 1406 2H-18X

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

017 25423 WM WALLACE 1406 2H-18X

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
INCREASED DENSITY - 689828	3/19/2019 - G58 - 19-14N-6W** X608194 WDFD 7 WELLS NEWFIELD EXPLORATION MID-CONTINENT INC. 1/16/2019 **WRONG WELL NAME IN HEADER S/B WM WALLACE 1406 2H-18X
INCREASED DENSITY - 689881	3/19/2019 - G58 - 18-14N-6W** X608194 MSSP 7 WELLS NEWFIELD EXPLORATION MID-CONTINENT INC. 1/16/2019 **WRONG WELL NAME IN HEADER S/B WM WALLACE 1406 2H-18X
INCREASED DENSITY - 689882	3/19/2019 - G58 - 19-14N-6W** X608194 MSSP 7 WELLS NEWFIELD EXPLORATION MID-CONTINENT INC. 1/16/2019 **WRONG WELL NAME IN HEADER S/B WM WALLACE 1406 2H-18X
LOCATION EXCEPTION - 691949	3/19/2019 - G58 - (I.O.) 18 & 19-14N-6W X608194 MSSP, WDFD, OTHER COMPL. INT. 19-14N-6W NCT 165' FSL, NCT 0' FNL, NCT 1320' FWL COMPL. INT. 18-14N-6W NCT 0' FSL, NCT 165' FNL, NCT 1320' FWL NEWFIELD EXPLORATION MID-CONTINENT INC. 2/25/2019
LOCATION EXCEPTION - 691955	3/19/2019 - G58 - (I.O.) 18 & 19-14N-6W X165:10-3-28(C)(2)(B) MSSP, WDFD (KREMEIER 1406 2H-18X**) MAY BE CLOSER THAN 600' TO EXISTING/PROPOSED WELL 2/28/2019 **WRONG WELL NAME IN ORDER S/B WM WALLACE 1406 2H-18X
MEMO	1/31/2019 - G71 - PIT 1 & 2 - CLOSED SYSTEM = STEEL PITS PER OPERATOR REQUEST, WBM/CUTTINGS & OBM CUTTINGS CAPTURED IN STEEL HALF PITS, WBM CUTTINGS WILL BE SOIL FARMED, WBM & OBM CUTTINGS TRANSFERRED TO R360 587498 (31-12N-8W), CANADIAN CO, PIT 2 - OBM TO VENDOR
PENDING CD - 201809721	3/19/2019 - G58 - (I.O.) 18 & 19-14N-6W EST MULTIUNIT HORIZONTAL WELL X608194 MSSP, WDFD, OTHER (MSSP & WDFD ARE TARGET FORMATION) 50% 18-14N-6W 50% 19-14N-6W NO OP. NAMED REC 12/11/2018 (JACKSON)
SPACING - 608194	2/28/2019 - G58 - (640)(HOR) 18 & 19-14N-6W VAC 161941 MISS, MSCST, OTHER W2 & SE4 VAC 121298 MISS, OTHER N2 & SW4 VAC OTHER EST MSSP, WDFD, OTHER POE TO BHL (MSSP) NCT 660' FB POE TO BHL (WDFD) NCT 165' FNL & FSL, NCT 330' FEL & FWL (COEXIST SP. ORDERS 121298 MISS SE4; SP. ORDER 161941 MISS, MSCST NE4)

PERMIT PLAT

M & M Land Surveying, Inc.
Phone (580) 226-0446
520 E Street N.W.
Ardmore, OK 73401

Company Name: NEWFIELD EXPLORATION MID-CONTINENT INC.

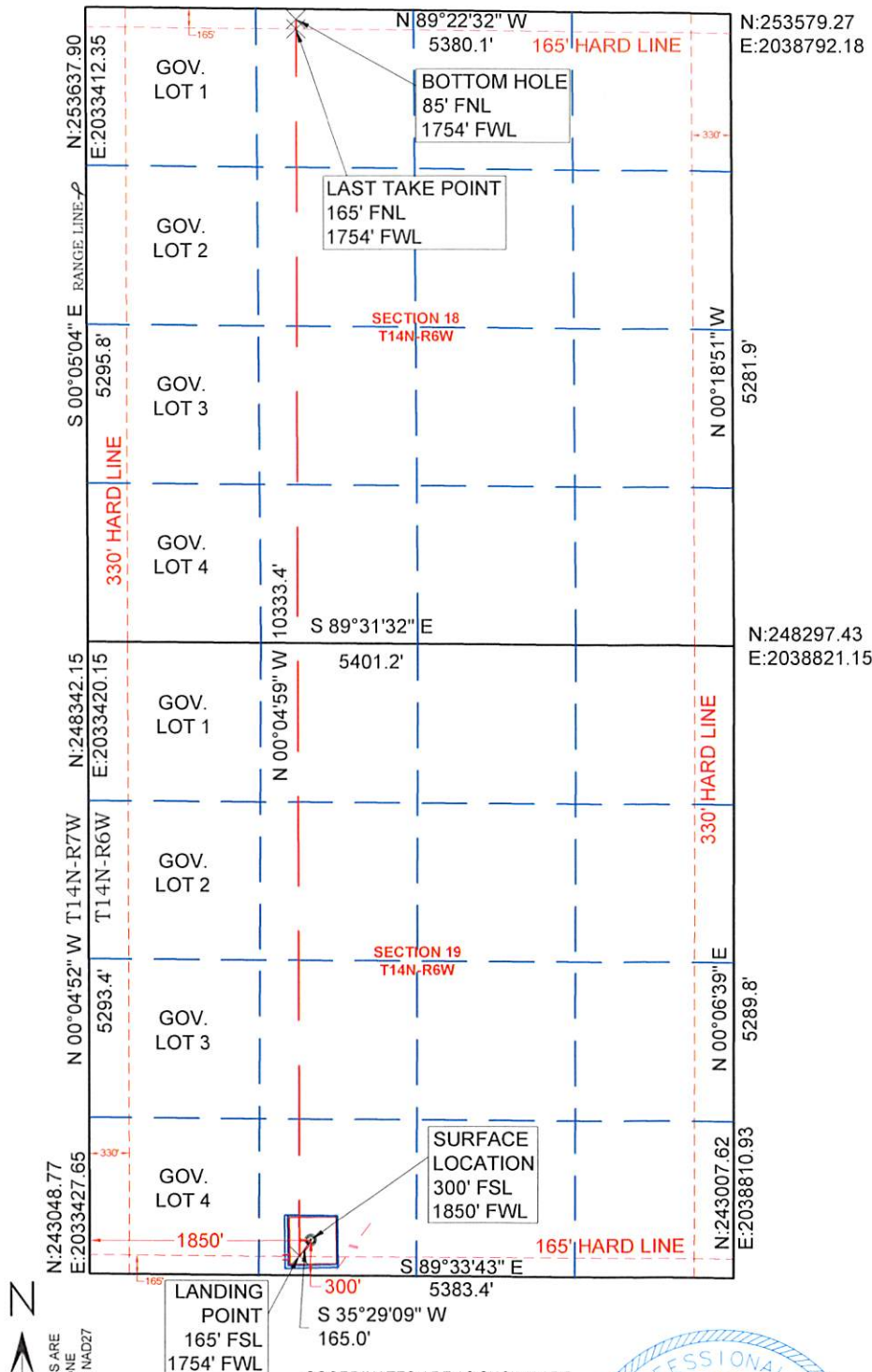
Lease Name: WM WALLACE 1406 2H-18X

Section 19 Township 14 N Range 6 W , I.B.M. County of Canadian, State of Oklahoma
Elevation Good Location?

Original Location: 300'FSL - 1850'FWL 1248' GROUND YES

Distance & Direction From Nearest Town: 6.7 miles Southeast of Okarche

017-25423



SURFACE LOCATION	LANDING POINT
DATUM: NAD27	DATUM: NAD27
LAT: 35° 40' 06.34"N	LAT: 35° 40' 05.01"N
LONG: 97° 52' 52.47"W	LONG: 97° 52' 53.63"W
LAT: 35.668427N	LAT: 35.668059N
LONG: 97.881241W	LONG: 97.881564W
Y (N): 243334.76	Y (N): 243200.42
X (E): 2035277.1	X (E): 2035181.31
DATUM: NAD83	DATUM: NAD83
LAT: 35° 40' 06.51"N	LAT: 35° 40' 05.19"N
LONG: 97° 52' 53.64"W	LONG: 97° 52' 54.81"W
LAT: 35.668476N	LAT: 35.668107N
LONG: 97.881568W	LONG: 97.881891W
Y (N): 243358.83	Y (N): 243224.49
X (E): 2003679.11	X (E): 2003583.32

LAST TAKE POINT	BOTTOM HOLE
DATUM: NAD27	DATUM: NAD27
LAT: 35° 41' 46.42"N	LAT: 35° 41' 47.21"N
LONG: 97° 52' 53.66"W	LONG: 97° 52' 53.66"W
LAT: 35.696227N	LAT: 35.696447N
LONG: 97.881571W	LONG: 97.881572W
Y (N): 253453.86	Y (N): 253533.87
X (E): 2035166.52	X (E): 2035166.4
DATUM: NAD83	DATUM: NAD83
LAT: 35° 41' 46.59"N	LAT: 35° 41' 47.38"N
LONG: 97° 52' 54.84"W	LONG: 97° 52' 54.84"W
LAT: 35.696275N	LAT: 35.696495N
LONG: 97.881899W	LONG: 97.881899W
Y (N): 253477.89	Y (N): 253557.9
X (E): 2003568.46	X (E): 2003568.34

This location has been staked according to the best official survey records available to us. The metrical data shown hereon is for permitting the well location and the section location may or may not be field verified. Please review this plat and notify us immediately of any discrepancy. The metrical data shown hereon is for permitting the well location and the section location may or may not be field verified.

CERTIFICATE:

I Aaron Morris a Registered Land Surveyor in the State Of Oklahoma, do hereby certify that the above described Well Location was surveyed and staked on the ground as shown and that said plat meets or exceeds the Oklahoma Minimum Technical Standards for the practice of land surveying as adopted by the Oklahoma State Board of Licensure for Professional Engineers and Land Surveyors.

1/18/2019

Aaron L. Morris R.P.L.S. No.1477
Bennett-Morris & Associates Land
Surveying P.C. ~ C.A. No. 5795 (LS)
Phone (580) 226-5108
Fax (888) 662-7778
1010 Northwest Boulevard
Ardmore, OK 73401



SURVEY BY: M & M Land Surveying, Inc. ~ C.A. No. 3093 (LS)
DRAWING BY: Bennett-Morris And Associates Land Surveying, P.C.
© COPYRIGHT 2019 C.A. No. 5795 (LS) ~ Aaron L. Morris, RPLS
PROJECT NUMBER: 19014
SITE VISIT: (Explanation and Date)
STAKING DATE: 09/27/2018
DRAWING DATE: 01/15/2019