

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

API NUMBER: 011 24236 A

Approval Date: 08/02/2019  
Expiration Date: 02/02/2021

Horizontal Hole Oil & Gas

PERMIT TO DRILL

WELL LOCATION: Sec: 13 Twp: 19N Rge: 13W County: BLAINE  
SPOT LOCATION: ☐ SW ☐ SE ☐ SE ☐ SE FEET FROM QUARTER: FROM SOUTH FROM EAST  
SECTION LINES: 210 600

Lease Name: HOFFMAN TRUST Well No: 2-13MH Well will be 210 feet from nearest unit or lease boundary.  
Operator Name: CRAWLEY PETROLEUM CORPORATION Telephone: 4052329700 OTC/OCC Number: 7980 0

CRAWLEY PETROLEUM CORPORATION  
105 N HUDSON AVE STE 800  
OKLAHOMA CITY, OK 73102-4803

JUNE LAVERLE HOFFMAN  
67788 N 2510 RD  
WATONGA OK 73772

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

Name	Depth	Name	Depth
1 MISSISSIPPI SOLID	8950	6	
2		7	
3		8	
4		9	
5		10	

Spacing Orders: 196060 Location Exception Orders: Increased Density Orders: 689872  
Pending CD Numbers: 201808880 Special Orders:  
201903941

Total Depth: 13709 Ground Elevation: 1669 Surface Casing: 600 Depth to base of Treatable Water-Bearing FM: 90

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: ON SITE

Type of Mud System: WATER BASED

Chlorides Max: 20000 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: 1B

Liner required for Category: 1B

Pit Location is AP/TE DEPOSIT

Pit Location Formation: TERRACE

D. One time land application -- (REQUIRES PERMIT) PERMIT NO: 19-36719  
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: ON SITE

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: 3

Liner required for Category: 3

Pit Location is AP/TE DEPOSIT

Pit Location Formation: TERRACE

HORIZONTAL HOLE 1

Sec 13 Twp 19N Rge 13W County BLAINE

Spot Location of End Point: NW NE NE NE

Feet From: NORTH 1/4 Section Line: 165

Feet From: EAST 1/4 Section Line: 600

Depth of Deviation: 8477

Radius of Turn: 593

Direction: 360

Total Length: 4300

Measured Total Depth: 13709

True Vertical Depth: 9050

End Point Location from Lease,  
Unit, or Property Line: 165

Notes:

Category

Description

DEEP SURFACE CASING

7/10/2019 - 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

6/19/2019 - 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](http://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](http://FRACFOCUS.ORG)

INCREASED DENSITY - 689872

7/25/2019 - GB1 - 13-19N-13W

X196060 MSSSD\*\*\*

1 WELL

CRAWLEY PETROLEUM CORPORATION

1/16/2019

\*\*\*CLARIFICATION ORDER #201903941 FILED TO CORRECT NOMENCLATURE CONFLICT  
MSSLM = MSSSD

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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.

011 24236 HOFFMAN TRUST 2-13MH

Category	Description
INTERMEDIATE CASING	6/19/2019 - 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	6/19/2019 - G71 - PITS 1 & 2 - CONCRETE LINED PIT PER OPERATOR REQUEST, PIT 2 - OBM RETURNED TO VENDOR, CUTTINGS PERMITTED PER DISTRICT
PENDING CD - 201808880	8/2/2019 - GB1 - (I.O.) 13-19N-13W X196060 MSSSD** COMPL. INT. NCT 165' FNL, NCT 165' FSL, NCT 330' FEL NO OP. NAMED REC. 7/16/19 (THOMAS)  ** CLARIFYING EMERGENCY SPACING APPLICATION WAS HEARD AND REC 8/2/2019 PER ATTORNEY FOR OPERATOR; SP #201903941 WILL BE ADDED AT HEARING FOR FINAL ORDER PER ATTORNEY FOR OPERATOR
PENDING CD - 201903941	8/2/2019 - GB1 - (E.O.) 13-19N-13W CLARIFY 188477 MSSLM AND 196060 MSSSD ARE ONE AND THE SAME AND WILL BE CALLED MSSSD MOVING FORWARD REC. 8/2/2019 (NORRIS)
SPACING - 196060	7/25/2019 - GB1 - (640) 13-19N-13W EXT OTHERS EXT 153696 MSSSD, OTHERS
TEMPORARY AUTHORIZATION TO DRILL	8/2/2019 - GB1 - ORIGINALLY APPROVED FOR TEMP AUTH TO DRILL 7/26/2019; ISSUED 7/29/2019; EXPIRED 8/2/2019

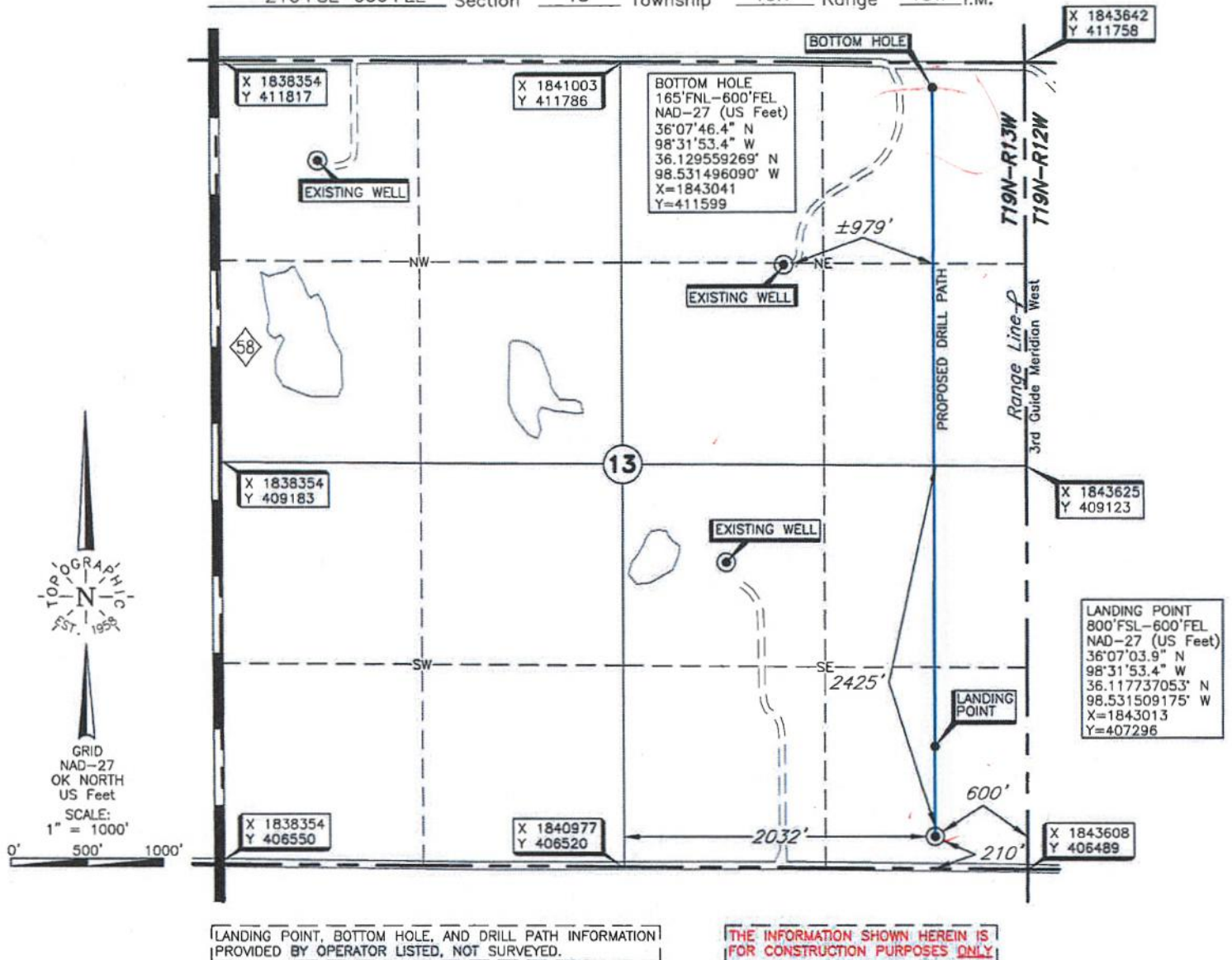
# TOPOGRAPHIC LAND SURVEYORS OF OKLAHOMA

13800 Wireless Way, Okla. City, OK. 73134 \* LOCAL (405) 843-4847 \* OUT OF STATE (800) 654-3219  
Certificate of Authorization No. 1293 LS

BLAINE

County, Oklahoma

210' FSL-600' FEL Section 13 Township 19N Range 13W I.M.



Operator: CRAWLEY PETROLEUM

Lease Name: HOFFMAN TRUST

Well No. 2-13MH AT

**ELEVATION:**

1669' Gr. at Stake

Topography & Vegetation Location fell in rolling heavy brush

Good Drill Site? Yes

Reference Stakes or Alternate Location  
Stakes Set None

Best Accessibility to Location From South off county road

### Distance & Direction

Distance & Direction  
from Hwy Jct or Town From Longdale, Okla., go  $\pm 1.3$  miles South on St. Hwy. 58, then

±1 mile East to the SE Cor. of Sec. 13-T19N-R13W

Date of Drawing: Mar. 20, 2019

Project # 125026 Date Staked: Mar. 19, 2019

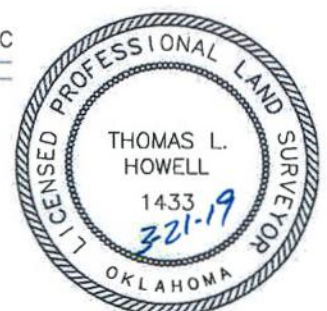
LC

**CERTIFICATE:**

I, Thomas L. Howell an Oklahoma Licensed Land Surveyor and an authorized agent of Topographic Land Surveyors of Oklahoma, do hereby certify to the information shown herein.

Oklahoma Lic. No. 1433

Oklahoma Lic. No. 1433



This information was gathered with a GPS receiver with  $\pm 1$  foot Horiz./Vert. accuracy.

DATUM: NAD-27  
LAT: 36°06'58.0"N  
LONG: 98°31'53.4"W  
LAT: 36.116116129° N  
LONG: 98.531510751° W  
STATE PLANE  
COORDINATES: (US Feet)  
ZONE: OK NORTH  
X: 1843010  
Y: 406706