

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

API NUMBER: 043 23614

Approval Date: 04/24/2018  
Expiration Date: 10/24/2018

Horizontal Hole Oil & Gas

PERMIT TO DRILL

WELL LOCATION: Sec: 28 Twp: 19N Rge: 14W County: DEWEY  
SPOT LOCATION:  SW  SE  SE  SE FEET FROM QUARTER: FROM SOUTH FROM EAST  
SECTION LINES: 258 400

Lease Name: HEWITT Well No: 1-28H Well will be 258 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

IMOGENE HEWITT  
LIFE TENANT C/O JANA SMITH AIF  
24282 EAST 1037 RD  
WEATHERFORD OK 73096

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

Name	Depth	Name	Depth
1 MISSISSIPPI SOLID	9700	6	
2		7	
3		8	
4		9	
5		10	

Spacing Orders: 222494

Location Exception Orders: 676225

Increased Density Orders:

Pending CD Numbers:

Special Orders:

Total Depth: 14500

Ground Elevation: 1742

**Surface Casing: 260**

Depth to base of Treatable Water-Bearing FM: 210

Under Federal Jurisdiction: No

Fresh Water Supply Well Drilled: No

Surface Water used to Drill: Yes

PIT 1 INFORMATION

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 BED AQUIFER

Pit Location Formation: RUSH SPRINGS

Approved Method for disposal of Drilling Fluids:

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

PERMIT NO: 18-34316

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: RUSH SPRINGS

HORIZONTAL HOLE 1

Sec 28 Twp 19N Rge 14W County DEWEY

Spot Location of End Point: NW NE NE NE

Feet From: NORTH 1/4 Section Line: 200

Feet From: EAST 1/4 Section Line: 400

Depth of Deviation: 9210

Radius of Turn: 573

Direction: 360

Total Length: 4390

Measured Total Depth: 14500

True Vertical Depth: 9700

End Point Location from Lease,  
Unit, or Property Line: 200

Notes:

Category

Description

HYDRAULIC FRACTURING

4/18/2018 - 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)

INTERMEDIATE CASING

4/18/2018 - 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

LOCATION EXCEPTION - 676225

4/23/2018 - G57 - (I.O.) 28-19N-14W  
X222494 MSSSD  
COMPL. INT. NCT 165' FSL, NCT 165' FNL, NCT 330' FEL  
CRAWLEY PETROLEUM CORPORATION  
4-12-2018

MEMO

4/18/2018 - G71 - PIT 1 - MIN. SOIL COMPACTED PIT, NOTIFY DISTRICT PRIOR TO TESTING SOIL PIT LINER, PIT 2 - CLOSED SYSTEM=STEEL PITS PER OPERATOR REQUEST, OBM RETURNED TO VENDOR, CUTTINGS PERMITTED PER DISTRICT

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

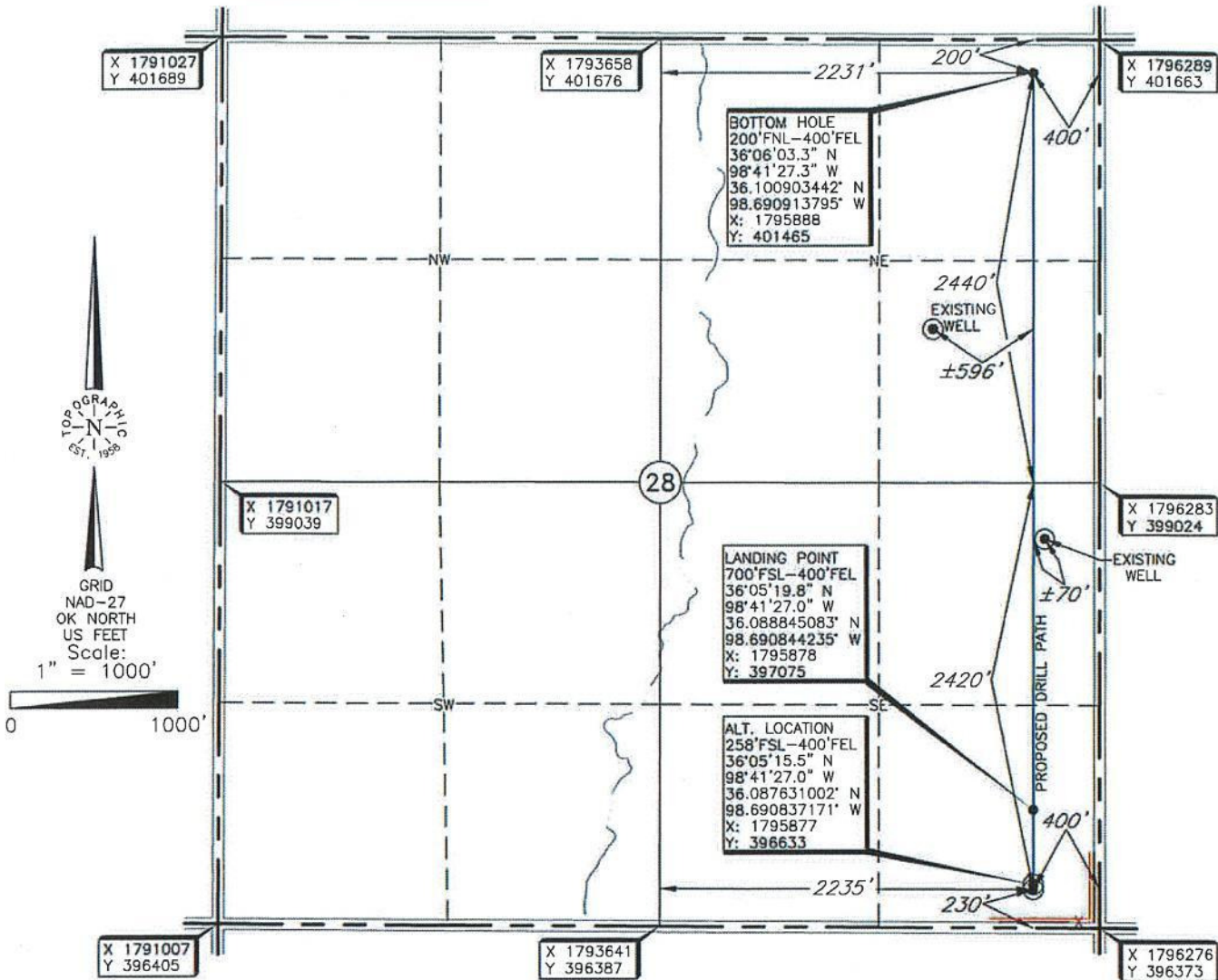
The duration of this permit is SIX MONTHS, except as otherwise provided by Rule 165: 10-3-1.

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.

Category	Description
SPACING - 222494	4/23/2018 - G57 - (640) 28-19N-14W EXT 181343 MSSSD, OTHERS EXT OTHERS
SURFACE HOLE LOCATION	4/24/2018 - G57 - SURFACE HOLE LOCATION CHANGED TO ALTERNATIVE LOCATION AT 258' FSL, 400' FEL PER OPERATOR

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.

230'FSL-400'FEL Section 28 Township 19N Range 14W I.M.



BOTTOM HOLE, LANDING POINT, AND DRILL PATH INFORMATION PROVIDED BY OPERATOR LISTED, NOT SURVEYED.

THE INFORMATION SHOWN HEREIN IS FOR CONSTRUCTION PURPOSES ONLY.

Operator: CRAWLEY PETROLEUM CORP.  
 Lease Name: HEWITT

**ELEVATION:**  
 1742' Gr. at Stake

Well No.: 1-28H

Topography & Vegetation Location and Alternate Location fell in terraced field, Location fell ±173' north of E-W pipeline. Alternate Location fell ±201' north of E-W pipeline, ±342' west of N-S pipeline.

Good Drill Site? Yes; Alt. Loc. Yes Alt. Location: 258'FSL-400'FEL; ELEV. 1742'

Best Accessibility to Location From county road south of well location.

Distance & Direction  
 from Hwy Jct or Town From the Jct. of U.S. Hwy. 270 & St. Hwy. 51, NW of Okarche, OK.,  
go east on St. Hwy. 51 for ±7.2 miles, then north ±2.0 miles to the Southeast Corner of Section, T19N-R14W.

Date of Drawing: Jan. 31, 2018

Invoice # 287463 Date Staked: Jan. 29, 2018 JGW

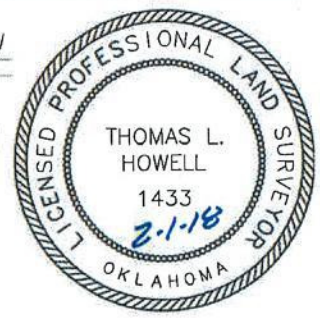
DATUM: NAD-27  
 LAT: 36°05'15.2"N  
 LONG: 98°41'27.0"W  
 LAT: 36.087553823°N  
 LONG: 98.690836945°W  
 STATE PLANE  
 COORDINATES (US FEET):  
 ZONE: OK NORTH  
 X: 1795877  
 Y: 396605

**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.

*Thomas L. Howell*

Oklahoma Reg. No. 1433



This information was gathered with a GPS receiver with ±1 foot Horiz./Vert. accuracy