

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

API NUMBER: 129 23675 A

Approval Date: 10/04/2018

Expiration Date: 04/04/2020

Horizontal Hole Oil & Gas

PERMIT TO DRILL

WELL LOCATION: Sec: 14 Twp: 11N Rge: 23W

County: ROGER MILLS

SPOT LOCATION: ☐ SE ☐ SW ☐ SE ☐ SE

FEET FROM QUARTER: FROM SOUTH FROM EAST

SECTION LINES: 290 875

Lease Name: MOORE

Well No: 4-14H

Well will be 290 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

LADONNA R. ACKLEY
10973 N. 1900 ROAD
SAYRE OK 73662

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

	Name	Depth	Name	Depth
1	CHEROKEE UP	12800	6	
2			7	
3			8	
4			9	
5			10	

Spacing Orders: 183282

Location Exception Orders: 666667

Increased Density Orders: 666881

681118

681119

Pending CD Numbers:

Special Orders:

Total Depth: 17444

Ground Elevation: 2051

Surface Casing: 690

Depth to base of Treatable Water-Bearing FM: 640

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 OTHER HSA

Pit Location Formation: DOXEY

Approved Method for disposal of Drilling Fluids:

A. Evaporation/dewater and backfilling of reserve pit.

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

PERMIT NO: 18-35339

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 OTHER HSA

Pit Location Formation: DOXEY

HORIZONTAL HOLE 1

Sec 14 Twp 11N Rge 23W County ROGER MILLS

Spot Location of End Point: C N2 NE NE

Feet From: NORTH 1/4 Section Line: 330

Feet From: EAST 1/4 Section Line: 660

Depth of Deviation: 12454

Radius of Turn: 573

Direction: 2

Total Length: 4090

Measured Total Depth: 17444

True Vertical Depth: 13000

End Point Location from Lease,
Unit, or Property Line: 330

Notes:

Category

Description

HYDRAULIC FRACTURING

9/10/2018 - 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; 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 - 666881

10/1/2018 - G75 - 14-11N-23W
X183282 CHRKU
1 WELL
CRAWLEY PETRO. CORP.
8-11-2017

INCREASED DENSITY - 681119

10/1/2018 - G75 - EXTEND 666881 UNTIL 8-11-2019

LOCATION EXCEPTION - 666667

10/1/2018 - G75 - (I.O.) 14-11N-23W
X183282 CHRKU
COMPL. INT. NCT 330 FSL, NCT 330 FNL, NCT 600' FEL
CRAWLEY PETRO. CORP.
8-4-2017

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

129 23675 MOORE 4-14H

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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
LOCATION EXCEPTION - 681118	10/1/2018 - G75 - EXTEND 661160 UNTIL 2-17-2019 ** ** S/B EXTEND 666667 UNTIL 8-4-2019; NUNC PRO TUNC HAS BEEN PREPARED BY ATTORNEY FOR OPERATOR AND A COPY REVIEWED BY OCC
MEMO	9/10/2018 - G71 - PIT 1 & 2 - CONCRETE-LINED PITS PER OPERATOR REQUEST; PIT 2 - OBM TO VENDOR, OBM CUTTINGS PER DISTRICT
SPACING - 183282	10/1/2018 - G75 - (640) 14-11N-23W EXT 132600/145095 CHRKU, OTHERS

TOPOGRAPHIC LAND SURVEYORS OF OKLAHOMA

13800 WIRELESS WAY, OKLA. CITY, OKLA. 73134 * LOCAL (405) 843-4847 * OUT OF STATE (800) 654-3219

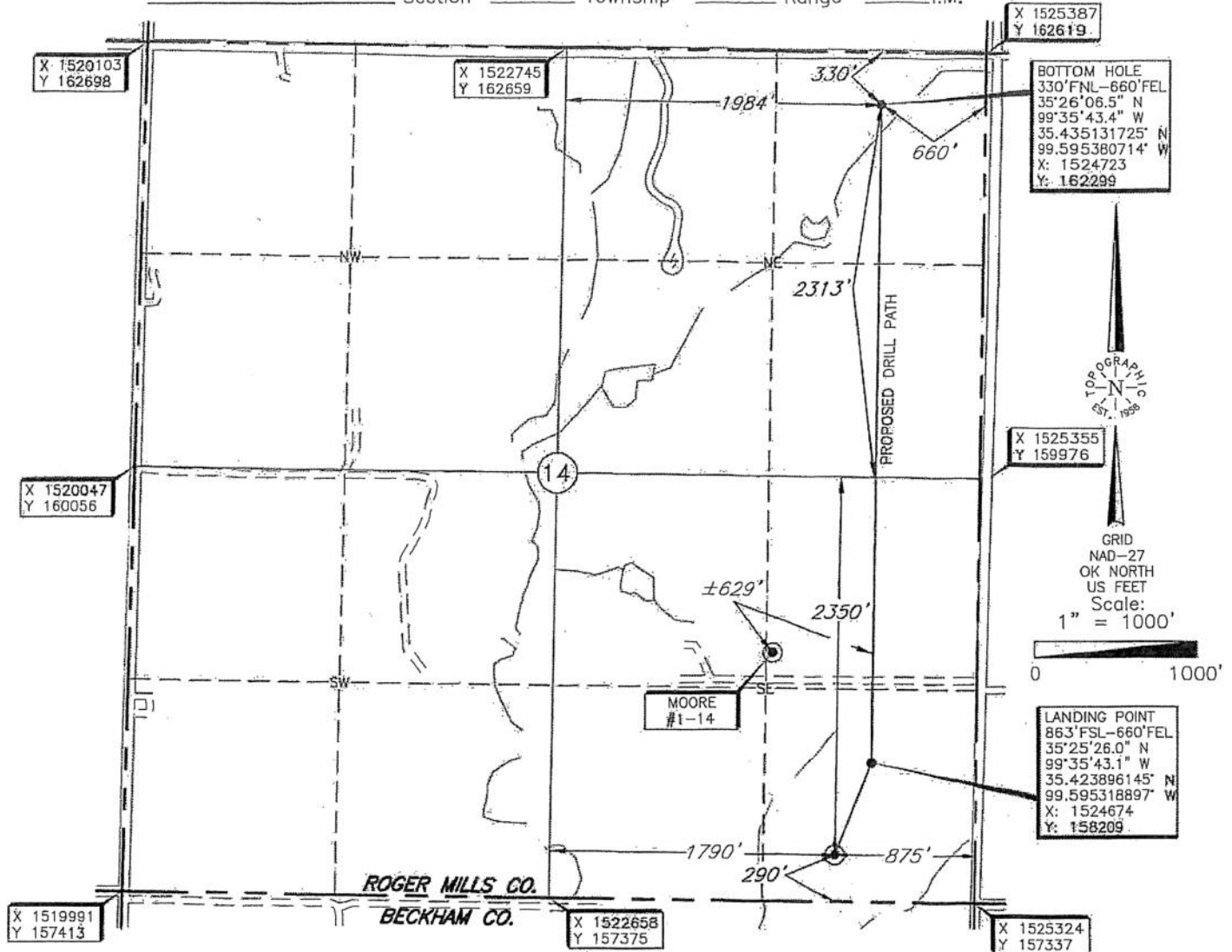
Certificate of Authorization No. 1293 LS

API 129-23675 A

ROGER MILLS

County, Oklahoma

290'FSL-875'FEL Section 14 Township 11N Range 23W 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: MOORE

Well No.: 4-14H

ELEVATION:

2051' Gr. at Stake

Topography & Vegetation Location fell in terraced pasture.

Good Drill Site? Yes Reference Stakes or Alternate Location Stakes Set None

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

Distance & Direction from Hwy Jct or Town From Berlin, OK., go ±1.7 miles east, then ±2.0 miles South to the Southeast Corner of Section 14, T11N-R23W.

DATUM: NAD-27
LAT: 35°25'20.4"N
LONG: 99°35'45.7"W
LAT: 35.422320885°N
LONG: 99.596031568°W

STATE PLANE
COORDINATES (US FEET):
ZONE: OK NORTH
X: 1524452
Y: 157639

Date of Drawing: May 31, 2018

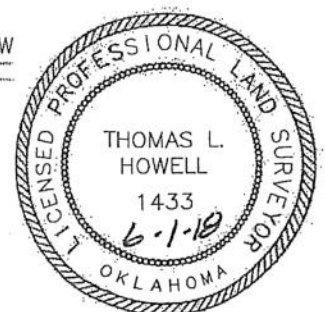
Invoice # 295434 Date Staked: May 12, 2017

JGW

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.