

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

API NUMBER: 125 23912

Approval Date: 08/18/2016

Expiration Date: 02/18/2017

Directional Hole Oil & Gas

PERMIT TO DRILL

WELL LOCATION: Sec: 22 Twp: 8N Rge: 2E

County: POTTAWATOMIE

SPOT LOCATION: ☐ SE ☐ SW ☐ NW ☐ SW

FEET FROM QUARTER: FROM SOUTH FROM WEST

SECTION LINES: 1475 475

Lease Name: WALTER

Well No: 1-22

Well will be 155 feet from nearest unit or lease boundary.

Operator Name: RANKEN ENERGY CORPORATION

Telephone: 4053402363

OTC/OCC Number: 17205 0

RANKEN ENERGY CORPORATION
457 W 18TH ST
EDMOND, OK 73013-3663

RONNIE LEE JOHNSON
28491 PATTERSON ROAD
MACOMB OK 74852

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

	Name	Depth		Name	Depth
1	RED FORK	5037	6	SIMPSON DOLOMITE	5887
2	WOODFORD	5159	7	1ST WILCOX	5956
3	MISENER	5246	8	2ND WILCOX	5997
4	HUNTON	5254	9		
5	VIOLA	5681	10		

Spacing Orders: 645987

Location Exception Orders:

Increased Density Orders:

Pending CD Numbers:

Special Orders:

Total Depth: 6030

Ground Elevation: 989

Surface Casing: 240

Depth to base of Treatable Water-Bearing FM: 190

Under Federal Jurisdiction: No

Fresh Water Supply Well Drilled: No

Surface Water used to Drill: No

PIT 1 INFORMATION

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: WELLINGTON

Approved Method for disposal of Drilling Fluids:

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

PERMIT NO: 16-31421

H. CLOSED SYSTEM=STEEL PITS PER OPERATOR REQUEST

DIRECTIONAL HOLE 1

Sec 22 Twp 8N Rge 2E County POTTAWATOMIE

Spot Location of End Point: NE SW NW SW

Feet From: SOUTH 1/4 Section Line: 1825

Feet From: WEST 1/4 Section Line: 331

Measured Total Depth: 6030

True Vertical Depth: 6000

End Point Location from Lease,

Unit, or Property Line: 331

Notes:

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
HYDRAULIC FRACTURING	8/17/2016 - G71 - OCC 165:10-3-10 REQUIRES: 1) THE CHEMICAL DISCLOSURE OF HYDRAULIC FRACTURING INGREDIENTS FOR ALL WELLS BE REPORTED TO FRACFOCUS USING THE FOLLOWING LINK HTTP://FRACFOCUS.ORG/ WITH NOTICE GIVEN 48 HOURS IN ADVANCE OF FRACTURING TO THE LOCAL OCC DISTRICT OFFICE; AND, 2) PRIOR TO COMMENCEMENT OF FRACTURING OPERATIONS FOR HORIZONTAL WELLS, NOTICE ALSO GIVEN FIVE BUSINESS DAYS IN ADVANCE TO OFFSET OPERATORS WITH WELLS COMPLETED IN THE SAME COMMON SOURCE OF SUPPLY WITHIN 1/2 MILE.
SPACING - 645987	8/17/2016 - G64 - (80)(IRR. UNIT) NW4 SW4 & SW4 NW4 22-8N-2E NCT 330' FB OF NW4 SW4 VAC 25527/202865 (NW4 SW4 & SW4 NW4) EST CLVD, OSWG, RDFK, WDFD, MSNR, HNTN, VIOL, SMPSD, WLCX1, WLCX2

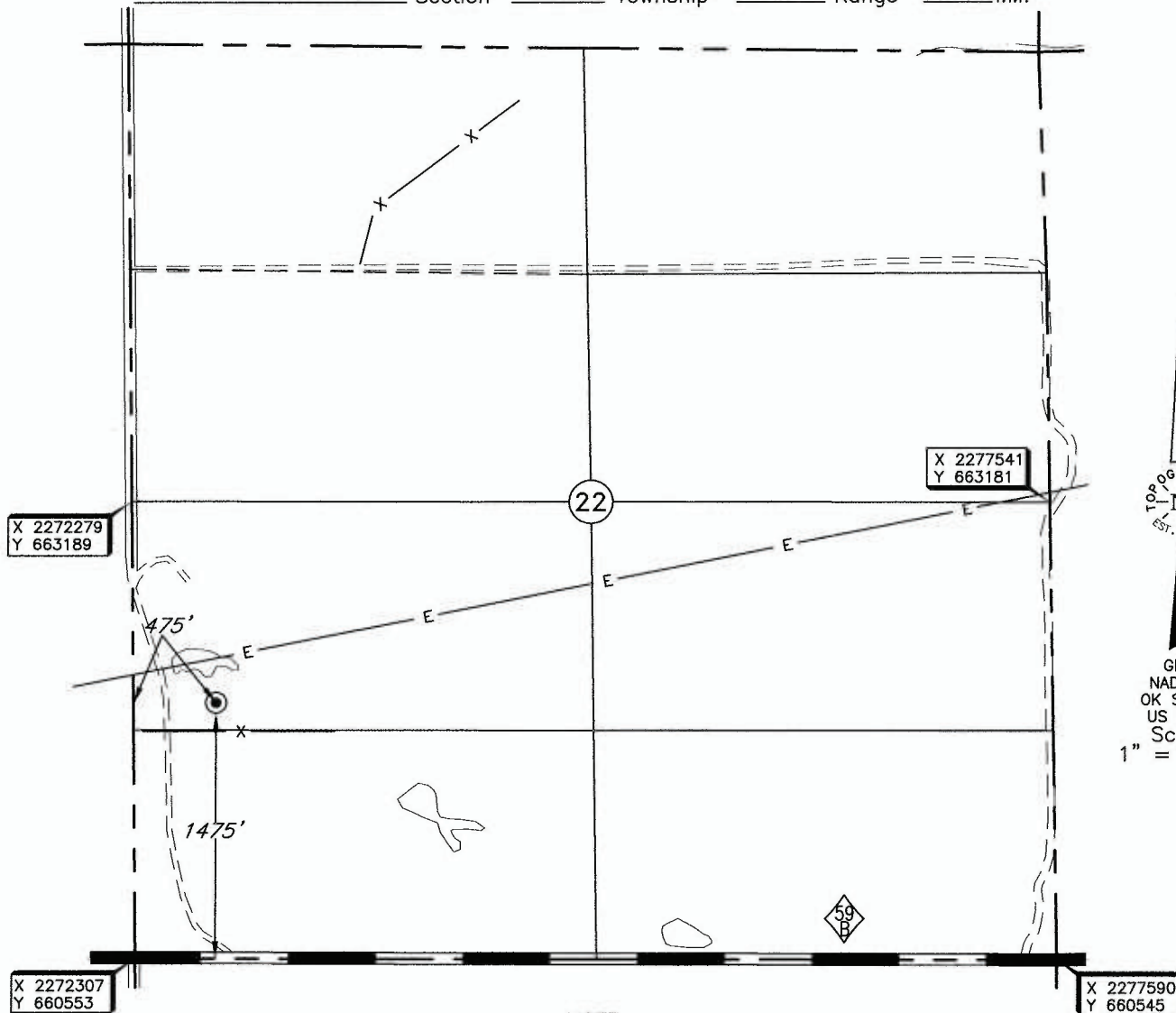
TOPOGRAPHIC LAND SURVEYORS OF OKLAHOMA6709 NORTH CLASSEN BLVD., OKLA. CITY, OKLA. 73116 * LOCAL (405) 843-4847 * OUT OF STATE (800) 654-3219
Certificate of Authorization No. 1293 LS.

POTTAWATOMIE

County, Oklahoma

API: 125-23912

1475' FSL-475' FWL Section 22 Township 8N Range 2E I.M.

**NOTE:**The information shown herein is for construction purposes ONLY.Operator: RANKEN ENERGY, INC.Lease Name: WALTERWell No.: 1-22**ELEVATION:**989' Gr. at StakeTopography & Vegetation Loc. fell in heavy trees, ±120' East of drain, ±165' North of fenceGood Drill Site? Yes Reference Stakes or Alternate Location Stakes Set NoneBest Accessibility to Location From West off county road

Distance & Direction

from Hwy Jct or Town From Hwy. 102 N-S & Hwy. 59B E-W, go ±2 miles West on Hwy. 59B to the SW Cor. of Sec. 22-T8N-R2EDATUM: NAD-27LAT: 35°08'56.8"NLONG: 97°05'15.4"WLAT: 35.149099490° NLONG: 97.087598924° WSTATE PLANE
COORDINATES (US FEET):ZONE: OK SOUTHX: 2272767Y: 662027Date of Drawing: Jun. 23, 2015Invoice # 246421 Date Staked: Jun. 22, 2015

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.Thomas L. Howell
Oklahoma Reg. No. 1433

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