

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

API NUMBER: 071 24762

Approval Date: 05/27/2014  
Expiration Date: 11/27/2014

Horizontal Hole Oil & Gas

PERMIT TO DRILL

WELL LOCATION: Sec: 24 Twp: 25N Rge: 1W County: KAY  
SPOT LOCATION:  SE  SE  SW  SW FEET FROM QUARTER: FROM SOUTH FROM WEST  
SECTION LINES: 270 1100

Lease Name: TYR Well No: 24-1N Well will be 270 feet from nearest unit or lease boundary.

Operator Name: RANGE PRODUCTION COMPANY LLC Telephone: 4058107341; 4058107 OTC/OCC Number: 22664 0

RANGE PRODUCTION COMPANY LLC  
5600 N MAY AVE STE 350  
OKLAHOMA CITY, OK 73112-3967

ROBERT Q. DIEMER, JR & CAROL A. DIEMER  
14211 SOUTH 13TH STREET  
TONKAWA OK 74653

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

Name	Depth	Name	Depth
1 MISSISSIPPIAN	4363	6	
2		7	
3		8	
4		9	
5		10	

Spacing Orders: 589752 Location Exception Orders: 622760 Increased Density Orders: 624785

Pending CD Numbers:

Special Orders:

Total Depth: 9600 Ground Elevation: 944 Surface Casing: 410 Depth to base of Treatable Water-Bearing FM: 360

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: 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: 1B

Liner required for Category: 1B

Pit Location is ALLUVIAL

Pit Location Formation: ALLUVIUM

Approved Method for disposal of Drilling Fluids:

A. Evaporation/dewater and backfilling of reserve pit.

D. One time land application -- (REQUIRES PERMIT) PERMIT NO: 14-27064

H. SOIL COMPACTED PIT PER OCC FIELD INSPECTOR, NOTIFY DISTRICT PRIOR TO TESTING SOIL PIT LINER

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.

HORIZONTAL HOLE 1

Sec 24 Twp 25N Rge 1W County KAY

Spot Location of End Point: NE NW NW NW

Feet From: NORTH 1/4 Section Line: 165

Feet From: WEST 1/4 Section Line: 500

Depth of Deviation: 3631

Radius of Turn: 750

Direction: 350

Total Length: 4791

Measured Total Depth: 9600

True Vertical Depth: 4381

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

Notes:

Category	Description
INCREASED DENSITY - 624785	5/27/2014 - G75 - 24-25N-1W X589752 MSSP 3 WELLS RANGE PROD. CO. (CHANGED TO RANGE PROD. CO., LLC 4-29-2014) 5-2-2014
LOCATION EXCEPTION - 622760	5/27/2014 - G75 - (I.O.) 24-25N-1W X589752 MSSP SHL 270 FSL, 1100 FWL FIRST PERF NCT 165 FSL, NCT 330 FWL LAST PERF NCT 165 FNL, NCT 330 FWL RANGE PROD. CO. (CHANGED TO RANGE PROD. CO., LLC 4-29-2014) 3-17-2014
SPACING - 589752	5/27/2014 - G75 - (640)(HOR) 24-25N-1W EST MSSP POE TO BHL NLT 660' FB (SUPERSEDE NON-PRODUCING NON-HORIZONTAL SPACING UNITS; COEXIST WITH PRODUCING NON-HORIZONTAL SPACING UNITS)

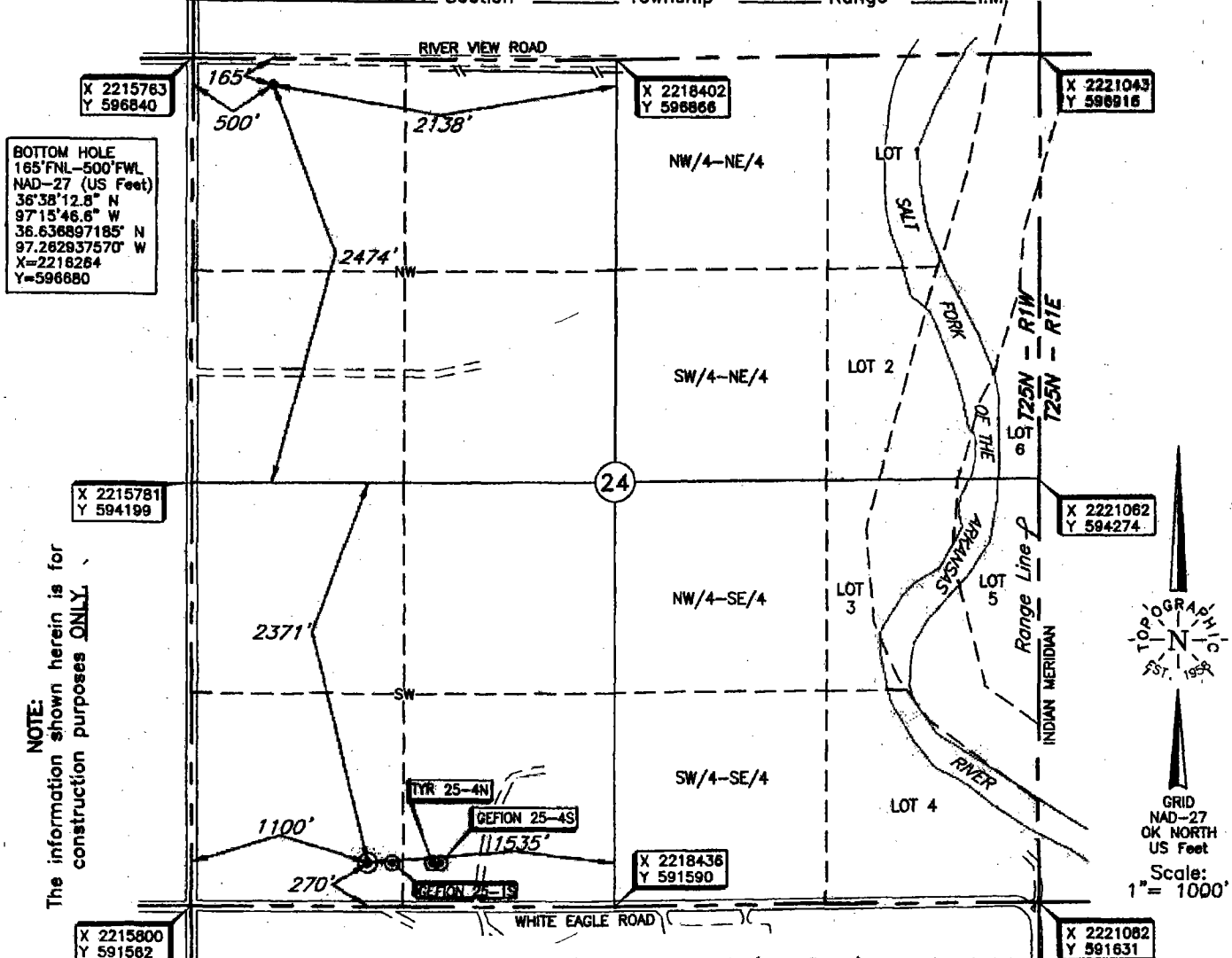
This permit does not address the right of entry or settlement of surface damages.  
The duration of this permit is SIX MONTHS, except as otherwise provided by Rule 165: 10-3-1.  
Rule 165: 10-3-4 (c) (7) (e) - The Operator shall give 24 Hours notice by telephone to the appropriate District  
Office of the Conservation Division as to when Surface Casing will be run.

**TOPOGRAPHIC LAND SURVEYORS OF OKLAHOMA** API 071-24762  
 6709 NORTH CLASSEN BLVD., OKLA. CITY, OKLA. 73116 • LOCAL (405) 843-4847 • OUT OF STATE (800) 654-3219  
 Certificate of Authorization No. 1293

KAY

County, Oklahoma

270'FSL - 1100'FWL Section 24 Township 25N Range 1W 1.M.



NOTE:  
The information shown herein is for construction purposes ONLY.



BOTTOM HOLE PROVIDED BY  
OPERATOR LISTED, NOT SURVEYED.

Distances shown in (parenthesis) are calculated based upon the Quarter Section being 2640 feet, those shown in [brackets] are based on GLO (General Land Office) distances and have NOT been measured on the ground.

Operator: RANGE PRODUCTION COMPANY

Lease Name: TYR Well No.: 24-1N

Topography & Vegetation Loc. fell at level pad, ±150' West of existing well

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

Best Accessibility to Location From South off county road

Distance & Direction from Hwy Jct or Town From the Kay-Noble County Line on US Hwy. 77, go ±2.0 mi. North on U.S. Hwy. 77, then ±1.0 mi, East to the SW Cor. of Sec. 24-T25N-R1W.

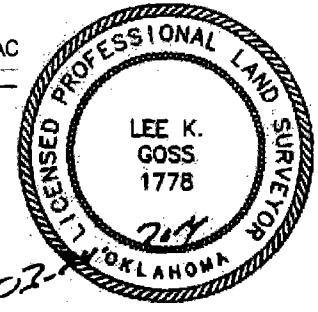
**ELEVATION:**  
944' Gr. at level pad

DATUM: NAD-27  
 LAT: 36°37'25.0\"N  
 LONG: 97°15'39.2\"W  
 LAT: 36.623601049° N  
 LONG: 97.260902439° W  
 STATE PLANE  
 COORDINATES: (US Feet)  
 ZONE: OK NORTH  
 X: 2216898  
 Y: 591844

Date of Drawing: Mar. 24, 2014  
 Invoice # 218734 Date Staked: Mar. 18, 2014 AC

**CERTIFICATE:**  
 I, Lee K. Goss a Oklahoma Licensed Land Surveyor and an authorized agent of Topographic Land Surveyors of Oklahoma, do hereby certify to the information shown herein

*[Signature]*  
 Oklahoma Lic. No. 1778



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