

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

API NUMBER: 087 22054

Approval Date: 08/26/2016  
Expiration Date: 02/26/2017

Horizontal Hole Oil & Gas

PERMIT TO DRILL

WELL LOCATION: Sec: 24 Twp: 5N Rge: 4W County: MCCLAIN  
SPOT LOCATION:     FEET FROM QUARTER: FROM SOUTH FROM EAST  
SECTION LINES: 200 2310

Lease Name: ARTIE 0504 Well No: 24-1HW Well will be 200 feet from nearest unit or lease boundary.  
Operator Name: EAGLE EXPLORATION PRODUCTION LLC Telephone: 9187461350 OTC/OCC Number: 23413 0

EAGLE EXPLORATION PRODUCTION LLC  
6100 S YALE AVE STE 700  
TULSA, OK 74136-1935

ANN S ETHRIDGE  
15439 120 ST  
LINDSAY OK 73052

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

Name	Depth	Name	Depth
1 SYCAMORE	9300	6	
2 WOODFORD	9400	7	
3		8	
4		9	
5		10	

Spacing Orders: 629329 Location Exception Orders: 631331 Increased Density Orders:  
370472 645014  
407641  
484895  
126185  
587288

Pending CD Numbers: Special Orders:

Total Depth: 14150 Ground Elevation: 986 **Surface Casing: 1000** Depth to base of Treatable Water-Bearing FM: 250

Under Federal Jurisdiction: No Fresh Water Supply Well Drilled: No Surface Water used to Drill: Yes

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 ALLUVIAL

Pit Location Formation: ALLUVIUM

Approved Method for disposal of Drilling Fluids:

D. One time land application -- (REQUIRES PERMIT) PERMIT NO: 16-31540

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 ALLUVIAL

Pit Location Formation: ALLUVIUM

HORIZONTAL HOLE 1

Sec 24 Twp 5N Rge 4W County MCCLAIN

Spot Location of End Point: NW NW NW NE

Feet From: NORTH 1/4 Section Line: 150

Feet From: EAST 1/4 Section Line: 2510

Depth of Deviation: 8950

Radius of Turn: 500

Direction: 358

Total Length: 4415

Measured Total Depth: 14150

True Vertical Depth: 9450

End Point Location from Lease,  
Unit, or Property Line: 150

Notes:

Category	Description
DEEP SURFACE CASING	8/25/2016 - 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	8/25/2016 - 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 <a href="http://fracfocus.org/">HTTP://FRACFOCUS.ORG/</a> 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.
LOCATION EXCEPTION - 631331	8/26/2016 - G60 - (I.O.) 24-5N-4W X629329 SCMR, WDFD COMPL. INT. NCT 150' FSL, NCT 150' FNL, NCT 330' FWL EAGLE EXPLORATION PRODUCTION, LLC. 10-1-14
LOCATION EXCEPTION - 645014	8/26/2016 - G60 - (I.O.) 24-5N-4W EXTENSION OF TIME FOR 631331 UNTIL 10-1-16
MEMO	8/25/2016 - G71 - PITS 1 & 2 - CLOSED SYSTEM=STEEL PITS PER OPERATOR REQUEST, PIT 2 - OBM RETURNED TO VENDOR, CUTTINGS PERMITTED PER DISTRICT
SPACING - 629329	8/26/2016 - G60 - (640)(HOR) 24-5N-4W EST SCMR, WDFD COMPL. INT. (SCMR) NLT 660' FB COMPL. INT. (WDFD) NLT 330' FB (COEXIST WITH SP. ORDER 407641 MSSP WDFD; SP. ORDER 370472 MSSP, WDFD; SP. ORDER 484895 MSSP, WDFD; 587288 MSSP, WDFD)

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.

087 22054 ARTIE 0504 24-1HW

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

SURFACE CASING

8/25/2016 - G71 - MIN. 400' PER ORDERS 20066/20141

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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.

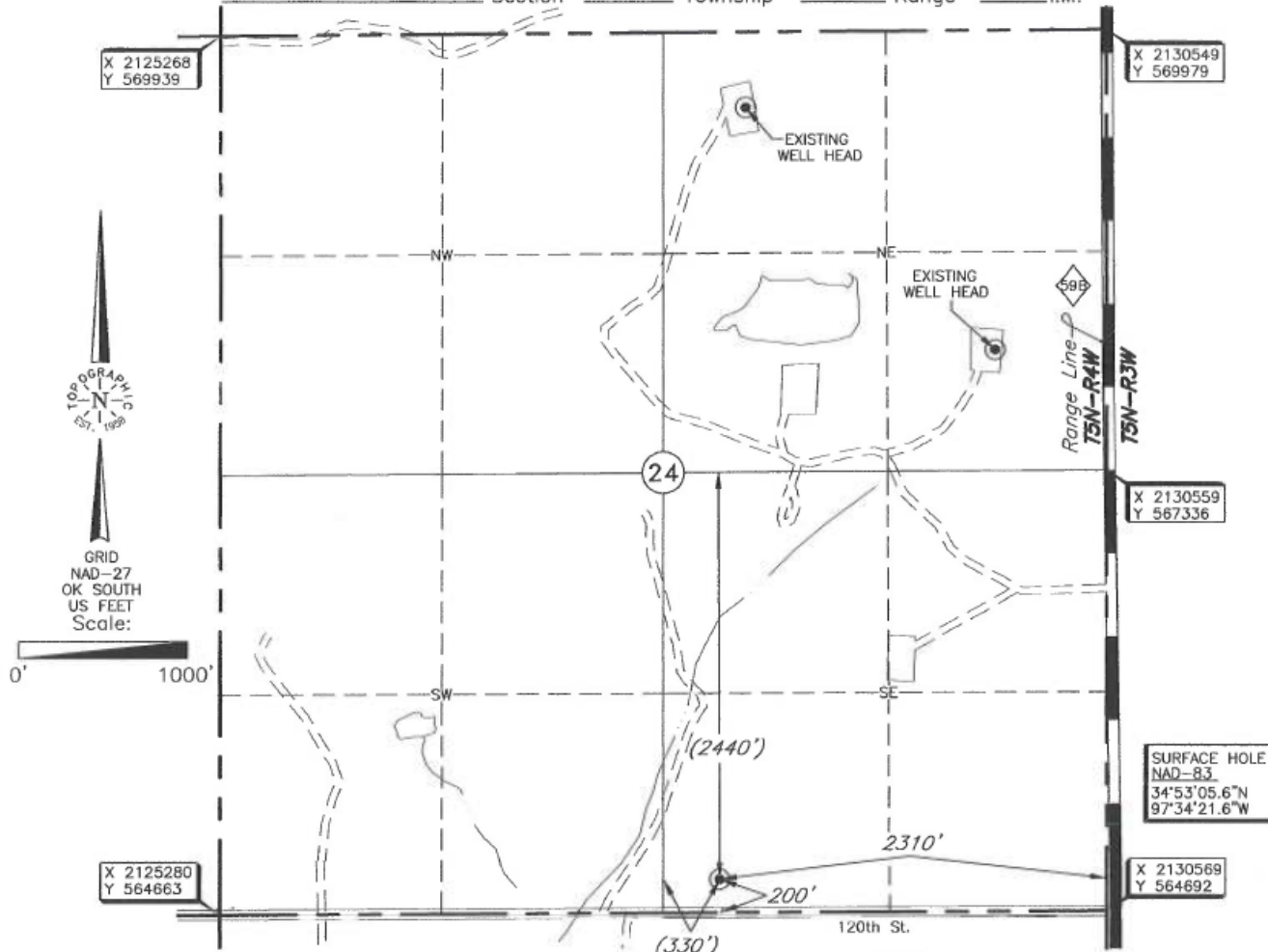
**TOPOGRAPHIC LAND SURVEYORS OF OKLAHOMA**

6709 NORTH CLASSEN BLVD., OKLA. CITY, OKLA. 73116 • LOCAL (405) 843-4847 • OUT OF STATE (800) 654-3219  
 Certificate of Authorization No. 1293 LS.

3508722054

MCCLAIN

200'FSL-2310'FEL Section 24 Township 5N Range 4W I.M.



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.

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

**ELEVATION:**

986' Gr. at Stake NAVD-88  
 986' Gr. at Stake NGVD-29

Operator: EAGLE ENERGY EXPLORATION, LLC

Lease Name: ARTIE LEE 0504

Well No.: 24-1HW

Topography & Vegetation Location fell in grass pasture.

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

Best Accessibility to Location From 120th St. south of well location.

Distance & Direction from Hwy Jct or Town From the Jct. of St. Hwy. 59 and St. Hwy. 39, go ±9 miles south on St. Hwy. 59 and St. Hwy. 59B to the Southeast Corner of Section 24, T5N-R4W.

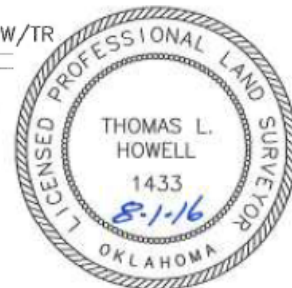
DATUM: NAD-27  
 LAT: 34°53'05.4"N  
 LONG: 97°34'20.4"W  
 STATE PLANE COORDINATES (US FEET):  
 ZONE: OK SOUTH  
 X: 2128258  
 Y: 564880

Revision  A Date of Drawing: Aug. 1, 2016  
 Invoice # 263235 Date Staked: July 27, 2016 JCW/TR

**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.