

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

API NUMBER: 129 23871

Approval Date: 09/10/2013  
Expiration Date: 03/10/2014

Horizontal Hole Oil & Gas

PERMIT TO DRILL

WELL LOCATION: Sec: 31 Twp: 12N Rge: 26W County: ROGER MILLS  
SPOT LOCATION:  NE  NW  NW  NW FEET FROM QUARTER: FROM NORTH FROM WEST  
SECTION LINES: 230 550

Lease Name: KEATHLEY 30-12-26 Well No: 1H Well will be 230 feet from nearest unit or lease boundary.  
Operator Name: CHESAPEAKE OPERATING INC Telephone: 4059358143 OTC/OCC Number: 17441 0

CHESAPEAKE OPERATING INC  
PO BOX 18496  
OKLAHOMA CITY, OK 73154-0496

BEVERLY GAIL KEATHLEY DAVIS  
P.O. BOX 8  
SWEETWATER OK 73666

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

	Name	Depth	Name	Depth
1	HERINGTON	4680	6	
2	VIRGIL	6240	7	
3	MISSOURIAN	10620	8	
4	DES MOINES	12520	9	
5			10	

Spacing Orders: 131389  
83207

Location Exception Orders:

Increased Density Orders:

Pending CD Numbers: 201305442  
201305443  
201305444

Special Orders:

Total Depth: 17980 Ground Elevation: 2268 **Surface Casing: 840** Depth to base of Treatable Water-Bearing FM: 590

Under Federal Jurisdiction: No

Fresh Water Supply Well Drilled: No

Surface Water used to Drill: No

PIT 1 INFORMATION

Type of Pit System: ON SITE

Type of Mud System: WATER BASED

Chlorides Max: 25000 Average: 8000

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: OGALLALA

Approved Method for disposal of Drilling Fluids:

A. Evaporation/dewater and backfilling of reserve pit.

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

H. SEE MEMO

PERMIT NO: 13-24258

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 BED AQUIFER
Pit Location Formation: OGALLALA

HORIZONTAL HOLE 1

Sec 30 Twp 12N Rge 26W County ROGER MILLS
Spot Location of End Point: NW NE NW NW
Feet From: NORTH 1/4 Section Line: 200
Feet From: WEST 1/4 Section Line: 800
Depth of Deviation: 12435
Radius of Turn: 567
Direction: 2
Total Length: 4654
Measured Total Depth: 17980
True Vertical Depth: 12796
End Point Location from Lease,
Unit, or Property Line: 200

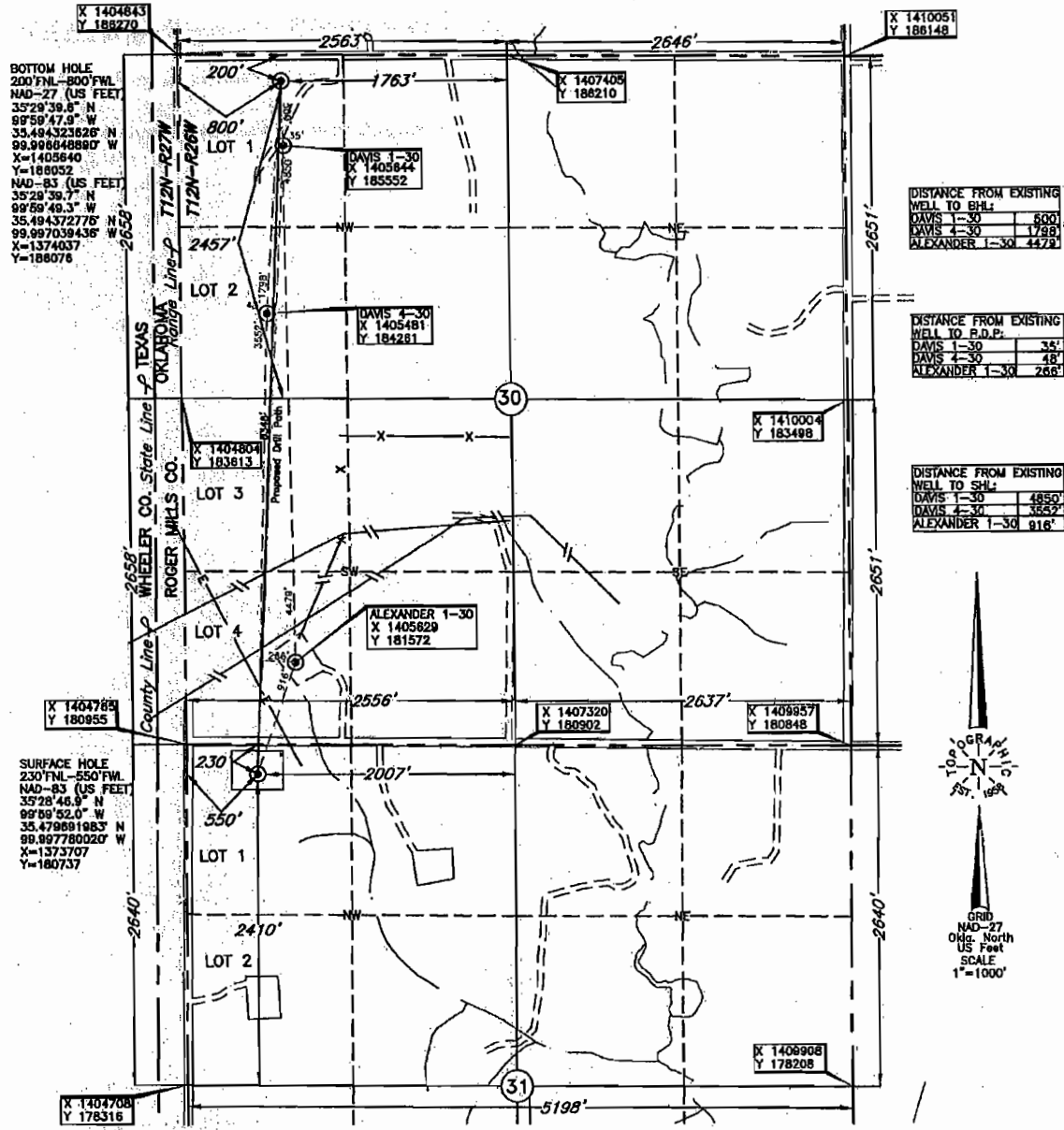
Notes:

Table with 2 columns: Category, Description. Contains notes for MEMO, PENDING CD (201305442, 201305443, 201305444), SPACING (131389, 83207) with detailed well and unit information.

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.

API  
 129-23871

ROGER MILLS County, Oklahoma  
 230'FNL-550'FWL Section 31 Township 12N Range 26W I.M.



BOTTOM HOLE  
 230'FNL-550'FWL  
 NAD-27 (US FEET)  
 35°29'39.6" N  
 99°59'47.9" W  
 35.484323626" N  
 99.998848890" W  
 X=1405840  
 Y=186052  
 NAD-83 (US FEET)  
 35°29'39.7" N  
 99°59'48.3" W  
 35.484327276" N  
 99.997039436" W  
 X=1374037  
 Y=186076

SURFACE HOLE  
 230'FNL-550'FWL  
 NAD-83 (US FEET)  
 35°28'46.9" N  
 99°59'52.0" W  
 35.479691963" N  
 99.997780020" W  
 X=1373707  
 Y=180737

DISTANCE FROM EXISTING WELL TO BHL:

DAVIS 1-30	500'
DAVIS 4-30	1789'
ALEXANDER 1-30	4479'

DISTANCE FROM EXISTING WELL TO P.D.P.:

DAVIS 1-30	35'
DAVIS 4-30	48'
ALEXANDER 1-30	266'

DISTANCE FROM EXISTING WELL TO SHL:

DAVIS 1-30	4850'
DAVIS 4-30	3652'
ALEXANDER 1-30	916'



Bottom Hole Information Provided by Operator Listed, NOT Surveyed. Corner Coordinates are Taken from Points Surveyed in the Field.

Operator: CHESAPEAKE OPERATING, INC. ELEVATION: 2268' Gr. at Stake  
 Lease Name: KEATHLEY 30-12-26 Well No.: 1H  
 Topography & Vegetation: Loc. fell in pasture, ±220' South of E-W fence, ±408' Southwest of power line, 229' SW of old house  
 Good Drill Site? Yes Reference Stakes or Alternate Location: Stakes Set None  
 Best Accessibility to Location: From North off county road  
 Distance & Direction: From the Jct. of St. Hwy. 6/152 & St. Hwy. 30 at Sweetwater, OK, go ±5 miles West, then ±3.5 miles North to the NW Cor. of Sec.31-T12N-R26W

DATUM: NAD-27  
 LAT: 35°28'46.7"N  
 LONG: 99°59'50.6"W  
 LAT: 35.479642617° N  
 LONG: 99.997389723° W  
 STATE PLANE COORDINATES: (US Feet)  
 ZONE: OK NORTH  
 X: 1405310  
 Y: 180713

Date of Drawing: Aug. 16, 2013  
 Invoice # 208038 Date Staked: Aug. 15, 2013 LC

**CERTIFICATE:**  
 I, T. Wayne Fisch a Oklahoma Licensed Land Surveyor and an authorized agent of Topographic Land Surveyors of Oklahoma, do hereby certify that the above described well location was surveyed and staked on the ground as shown herein.  
T. Wayne Fisch  
 Oklahoma Reg. No. 1378

