

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

API NUMBER: 045 23301

Approval Date: 01/29/2013  
Expiration Date: 01/29/2014

Horizontal Hole Oil & Gas

PERMIT TO DRILL

WELL LOCATION: Sec: 02 Twp: 19N Rge: 25W County: ELLIS  
SPOT LOCATION:  SE  SW  SE  SW FEET FROM QUARTER: FROM SOUTH FROM WEST  
SECTION LINES: 230 1760

Lease Name: RW KNOWLES 2-19-25 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

RANDY WAYNE KNOWLES  
ROUTE 2 BOX 114  
ARNETT OK 73832

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

	Name	Depth	Name	Depth
1	TONKAWA	7500	6	
2	COTTAGE GROVE	8000	7	
3	CLEVELAND	8550	8	
4	MARMATON	8700	9	
5			10	

Spacing Orders: 204648  
585108

Location Exception Orders:

Increased Density Orders:

Pending CD Numbers: 201207923  
201207913

Special Orders:

Total Depth: 13900

Ground Elevation: 2398

**Surface Casing: 890**

Depth to base of Treatable Water-Bearing FM: 640

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: 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 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)

PERMIT NO: 12-22253

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 BED AQUIFER
Pit Location Formation: OGALLALA

HORIZONTAL HOLE 1

Sec 02 Twp 19N Rge 25W County ELLIS
Spot Location of End Point: C N2 NE NW
Feet From: NORTH 1/4 Section Line: 330
Feet From: WEST 1/4 Section Line: 1980
Depth of Deviation: 8310
Radius of Turn: 361
Direction: 360
Total Length: 4498
Measured Total Depth: 13900
True Vertical Depth: 8700
End Point Location from Lease,
Unit, or Property Line: 330

Notes:

Table with 2 columns: Category, Description. Contains notes for MEMO, PENDING CD - 201207913, PENDING CD - 201207923, SPACING - 204648, and SPACING - 585108.

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.



7-29-13

Regulatory Department

July 15, 2013

**VIA HAND DELIVERED**

Oklahoma Corporation Commission  
Oil and Gas Conservation Division  
P. O. Box 52000-2000  
Oklahoma City, OK 73152-2000

RE: Permit Extension of Time  
RW Knowles 2-19-25 1H  
API # 045-23301  
Section 02-19N-25W  
Ellis County, Oklahoma

Dear Sir or Madam:

Chesapeake Operating, Inc. respectfully requests a six-month extension of time on the approved permit for the above-referenced well. All information on the permit remains the same. We understand that the extension will be granted for only one six-month period, and once that period has elapsed, the permit and fee must be re submitted.

If you have any questions, please contact me at 405-935-7290.

Sincerely,

Chesapeake Operating, Inc.

*Dawn Richardson*

Dawn Richardson  
Regulatory Technician III

SCANNED

RECEIVED

JUL 16 2013

OKLAHOMA CORPORATION  
COMMISSION

#17441  
APP 3-5-14  
OK

Approved for 6 Month  
Extension From  
7-29-13  
7-16-13