

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

API NUMBER: 045 23364

Approval Date: 06/13/2013
Expiration Date: 12/13/2013

Horizontal Hole Oil & Gas

PERMIT TO DRILL

WELL LOCATION: Sec: 10 Twp: 20N Rge: 25W County: ELLIS
SPOT LOCATION: SW SW SW SW FEET FROM QUARTER: FROM SOUTH FROM WEST
SECTION LINES: 255 270

Lease Name: MKS 10-20-25 Well No: 1H Well will be 255 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

MARLYN & KEVIN E. SCHOENHALS
P.O. BOX 28
OKLAHOMA CITY OK 73154

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

	Name	Depth	Name	Depth
1	DOUGLAS	6620	6	
2	TONKAWA	7060	7	
3	COTTAGE GROVE	7560	8	
4	CLEVELAND	8100	9	
5			10	

Spacing Orders: 569662 Location Exception Orders: 610268 Increased Density Orders: 610266

Pending CD Numbers: 201302339

Special Orders:

Total Depth: 13500 Ground Elevation: 2381 **Surface Casing: 860** Depth to base of Treatable Water-Bearing FM: 610

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)

H. SEE MEMO

PERMIT NO: 13-23598

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 10 Twp 20N Rge 25W County ELLIS
Spot Location of End Point: C N2 NW NW
Feet From: NORTH 1/4 Section Line: 330
Feet From: WEST 1/4 Section Line: 660
Depth of Deviation: 7845
Radius of Turn: 361
Direction: 360
Total Length: 4563
Measured Total Depth: 13500
True Vertical Depth: 8206
End Point Location from Lease,
Unit, or Property Line: 330

Notes:

Table with 2 columns: Category and Description. Contains notes such as 'INCREASED DENSITY - 610266', 'LOCATION EXCEPTION - 610268', 'MEMO', 'PENDING CD - 201302339', and 'SPACING - 569662'.

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