

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

API NUMBER: 045 23320 A

Approval Date: 03/13/2013
Expiration Date: 09/13/2013

Horizontal Hole Oil & Gas

Amend reason: CHANGE SURFACE LOCATION

AMEND PERMIT TO DRILL

WELL LOCATION: Sec: 12 Twp: 16N Rge: 23W

County: ELLIS

SPOT LOCATION: SE SE SW SE

FEET FROM QUARTER: FROM SOUTH FROM EAST

SECTION LINES: 300 1400

Lease Name: OK WILDLIFE 12-16-23

Well No: 1H

Well will be 300 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

OKLAHOMA DEPT OF WILDLIFE CONSERVATION (KELLY ROBERTSON)
P.O. BOX 53465
OKC OK 73152

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

	Name	Depth	Name	Depth
1	DOUGLAS (LS TONKAWA)	7900	6	
2	TONKAWA	8135	7	
3			8	
4			9	
5			10	

Spacing Orders: 584453

Location Exception Orders: 608422

Increased Density Orders:

Pending CD Numbers: 201300800

Special Orders:

Total Depth: 13100

Ground Elevation: 2056

Surface Casing: 720

Depth to base of Treatable Water-Bearing FM: 480

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 AP/TE DEPOSIT

Pit Location Formation: TERRACE

Approved Method for disposal of Drilling Fluids:

A. Evaporation/dewater and backfilling of reserve pit.

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

PERMIT NO: 13-22841

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 AP/TE DEPOSIT
Pit Location Formation: TERRACE

HORIZONTAL HOLE 1

Sec 12 Twp 16N Rge 23W County ELLIS
Spot Location of End Point: N2 N2 NE NE
Feet From: NORTH 1/4 Section Line: 250
Feet From: EAST 1/4 Section Line: 660
Depth of Deviation: 7460
Radius of Turn: 780
Direction: 360
Total Length: 4548
Measured Total Depth: 13100
True Vertical Depth: 8240
End Point Location from Lease,
Unit, or Property Line: 250

Notes:

Table with 2 columns: Category, Description. Rows include LOCATION EXCEPTION - 608422, MEMO, PENDING CD - 201300800, and SPACING - 584453.

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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.