

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

API NUMBER: 045 23426

Approval Date: 01/21/2014

Expiration Date: 07/21/2014

Horizontal Hole Oil & Gas

PERMIT TO DRILL

WELL LOCATION: Sec: 11 Twp: 16N Rge: 23W County: ELLIS
SPOT LOCATION: N2 N2 NW NW FEET FROM QUARTER: FROM NORTH FROM WEST
SECTION LINES: 250 660

Lease Name: BERRYMAN Well No: 3-11H Well will be 250 feet from nearest unit or lease boundary.

Operator Name: CRAWLEY PETROLEUM CORPORATION Telephone: 4052329700 OTC/OCC Number: 7980 0

CRAWLEY PETROLEUM CORPORATION
105 N HUDSON AVE STE 800
OKLAHOMA CITY, OK 73102-4803

OKLAHOMA DEPT. OF WILDLIFE CONSERVATION
PO BOX 53465
OKC OK 73152

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

Name	Depth	Name	Depth
1 TONKAWA	8290	6	
2		7	
3		8	
4		9	
5		10	

Spacing Orders: 61723

Location Exception Orders:

Increased Density Orders:

Pending CD Numbers: 201308421
201308420

Special Orders:

Total Depth: 12800 Ground Elevation: 2215 **Surface Casing: 570** Depth to base of Treatable Water-Bearing FM: 520

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

PIT 1 INFORMATION

Type of Pit System: ON SITE

Type of Mud System: WATER BASED

Chlorides Max: 70000 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: 14-26206

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 11 Twp 16N Rge 23W County ELLIS
Spot Location of End Point: S2 S2 SW SW
Feet From: SOUTH 1/4 Section Line: 300
Feet From: WEST 1/4 Section Line: 660
Depth of Deviation: 7787
Radius of Turn: 573
Direction: 180
Total Length: 4157
Measured Total Depth: 12800
True Vertical Depth: 8360
End Point Location from Lease,
Unit, or Property Line: 300

Notes:

Table with 2 columns: Category, Description. Contains notes about pit categories, pending CD numbers, and spacing details.

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