

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

API NUMBER: 129 23899

Approval Date: 12/16/2013
Expiration Date: 06/16/2014

Horizontal Hole Oil & Gas

PERMIT TO DRILL

WELL LOCATION: Sec: 29 Twp: 13N Rge: 25W County: ROGER MILLS
SPOT LOCATION: NW NW NW NE FEET FROM QUARTER: FROM NORTH FROM EAST
SECTION LINES: 190 2620

Lease Name: KICKING BIRD Well No: 1H-20 Well will be 190 feet from nearest unit or lease boundary.
Operator Name: ENERVEST OPERATING LLC Telephone: 7134956530 OTC/OCC Number: 19848 0

ENERVEST OPERATING LLC
1001 FANNIN ST STE 800
HOUSTON, TX 77002-6708

STERLING J. MOORE & SUE T. MOORE
17424 E. 990 ROAD
REYDON OK 73660

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

Name	Depth	Name	Depth
1 MARMATON	12294	6	
2		7	
3		8	
4		9	
5		10	

Spacing Orders: 141522

Location Exception Orders:

Increased Density Orders:

Pending CD Numbers: 201307962
201307963

Special Orders:

Total Depth: 17853

Ground Elevation: 2432

Surface Casing: 920

Depth to base of Treatable Water-Bearing FM: 850

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: 8000 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:

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

PERMIT NO: 13-25053

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 20 Twp 13N Rge 25W County ROGER MILLS
Spot Location of End Point: NE NE NE NW
Feet From: NORTH 1/4 Section Line: 245
Feet From: WEST 1/4 Section Line: 2593
Depth of Deviation: 12322
Radius of Turn: 500
Direction: 360
Total Length: 4711
Measured Total Depth: 17853
True Vertical Depth: 14155
End Point Location from Lease,
Unit, or Property Line: 245

Notes:

Table with 2 columns: Category, Description. Contains notes for MEMO, PENDING CD - 201307962, PENDING CD - 201307963, and SPACING - 141522.

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