

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

API NUMBER: 129 23754 B

Approval Date: 12/04/2013
Expiration Date: 06/04/2014

Horizontal Hole Oil & Gas

PERMIT TO DRILL

WELL LOCATION: Sec: 05 Twp: 12N Rge: 25W County: ROGER MILLS
SPOT LOCATION: SW SE SE SE FEET FROM QUARTER: FROM SOUTH FROM EAST
SECTION LINES: 265 500

Lease Name: BLACK MOON Well No: 1H-5 Well will be 265 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

MICHAEL LYNN OWEN
17437 E 930 ROAD
REYDON OK 73660

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

Name	Depth	Name	Depth
1 BROWN DOLOMITE	5197	6 CHECKERBOARD	11595
2 DOUGLAS	9073	7 CLEVELAND	11722
3 TONKAWA	9938	8 MARMATON GRANITE WASH	12740
4 COTTAGE GROVE	10552	9	
5 HOGSHOOTER	11252	10	

Spacing Orders: 591673
184224

Location Exception Orders: 616753

Increased Density Orders:

Pending CD Numbers:

Special Orders:

Total Depth: 18031

Ground Elevation: 2460

Surface Casing: 970

Depth to base of Treatable Water-Bearing FM: 790

Under Federal Jurisdiction: No

Fresh Water Supply Well Drilled: No

Surface Water used to Drill: No

PIT 1 INFORMATION

Type of Pit System: CLOSED Closed System Means Steel Pits

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: C

Liner not required for Category: C

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: 12-22037

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: CLOSED Closed System Means Steel Pits

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: C

Liner not required for Category: C

Pit Location is BED AQUIFER

Pit Location Formation: OGALLALA

HORIZONTAL HOLE 1

Sec 05 Twp 12N Rge 25W County ROGER MILLS

Spot Location of End Point: NW NE NE NE

Feet From: NORTH 1/4 Section Line: 165

Feet From: EAST 1/4 Section Line: 500

Depth of Deviation: 12561

Radius of Turn: 1000

Direction: 360

Total Length: 4050

Measured Total Depth: 18031

True Vertical Depth: 13112

End Point Location from Lease,
Unit, or Property Line: 165

Notes:

Category

Description

LOCATION EXCEPTION - 616753

10/18/2013 - G30 - (E.O.) 5-12N-25W
X BRWDO, DGLS, TNKW, CGGV, HGSR, CCKB, CLVD, MRMGW
SHL NCT 265 FSL, NCT 500 FEL
COMP. INT. NCT 660 FSL, NCT 330 FNL, NCT 500 FEL
ENERVEST OPERATING, LLC
10/8/13

MEMO

11/30/2012 - G71 - PITS 1 & 2 - CLOSED SYSTEM=STEEL PITS PER OPERATOR OPTION,
CONCRETE LINED PIT FOR SOIL FARMING, PIT 2 - OBM RETURNED TO VENDOR, CUTTINGS
PERMITTED PER DISTRICT

SPACING - 184224

12/4/2012 - G30 - (640) 5-12N-25W
EXT 122038/162189 DGLS, TNKW, CLVD, OTHERS
EXT 154788 BRWDO, CGGV, MRMGW

SPACING - 591673

12/4/2012 - G30 - (640) 5-12N-25W
EXT 586353 HGSR, CCKB