

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

API NUMBER: 129 23916

Approval Date: 02/06/2014
Expiration Date: 08/06/2014

Horizontal Hole Oil & Gas

PERMIT TO DRILL

WELL LOCATION: Sec: 25 Twp: 14N Rge: 26W County: ROGER MILLS
SPOT LOCATION: NE NE NE NW FEET FROM QUARTER: FROM NORTH FROM WEST
SECTION LINES: 205 2370

Lease Name: **DOUBLE WOLF** Well No: **1H-24** Well will be **205** 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

BRANDON AND JOHNNA HUGHES
10850 N. 1870 ROAD
SAYER OK 73662

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

Name	Depth	Name	Depth
1 MARMATON	11637	6	
2		7	
3		8	
4		9	
5		10	

Spacing Orders: 164974

Location Exception Orders: 611952

Increased Density Orders:

Pending CD Numbers:

Special Orders:

Total Depth: 12120

Ground Elevation: 0

Surface Casing: 790

Depth to base of Treatable Water-Bearing FM: 740

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: 14-26368

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 24 Twp 14N Rge 26W 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: 2590

Depth of Deviation: 11750

Radius of Turn: 100

Direction: 180

Total Length: 5356

Measured Total Depth: 17263

True Vertical Depth: 13478

End Point Location from Lease,
Unit, or Property Line: 245

Notes:

Category

Description

LOCATION EXCEPTION - 611952

2/6/2014 - G30 - (I.O.) 24-14N-26W
X133632 DGLS
X164974 TNKW, MRMN
X125387 CGGV
X611305 HGSR, CCKB
SHL NCT 235 FSL, NCT 660 FWL**
COMP. INT. NCT 330 FSL, NCT 330 FNL, NCT 660 FWL
LAREDO PETROLEUM, INC.
5/22/13

**SHL TO BE CORRECTED AT HEARING FOR FINAL ORDER LOCATION EXCEPTION

MEMO

2/4/2014 - G71 - PITS 1 & 2 - CLOSED SYSTEM=STEEL PITS PER OPERATOR OPTION, PIT 2 - OBM RETURNED TO VENDOR, CUTTINGS PERMITTED PER DISTRICT

SPACING - 164974

2/6/2014 - G30 - (640) 24-14N-26W
EXT 98946/153231 MRMN, CHRK, TNKW