

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

API NUMBER: 129 24012

Horizontal Hole Oil & Gas

Approval Date: 10/10/2014
Expiration Date: 04/10/2015

PERMIT TO DRILL

WELL LOCATION: Sec: 02 Twp: 11N Rge: 23W County: ROGER MILLS
SPOT LOCATION: ☐ SE ☐ SE ☐ SE ☐ SW FEET FROM QUARTER: FROM SOUTH FROM WEST
SECTION LINES: 320 2365

Lease Name: HALL Well No: 2-2HB Well will be 320 feet from nearest unit or lease boundary.
Operator Name: ENERVEST OPERATING LLC Telephone: 7134956530 OTC/OCC Number: 19848 0

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

ESTATE OF RUSSELL AND LOUISE HALL, BY STAN HALL,
PERSONAL REPRESENTATIVE
908 NEWBERRY DRIVE
RICHARDSON TX 75080

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

	Name	Depth	Name	Depth
1	MARMATON	12904	6	
2	CHEROKEE UP	14310	7	
3	CHEROKEE LOW	14664	8	
4			9	
5			10	

Spacing Orders: 183282
211048

Location Exception Orders: 201406470

Increased Density Orders: 201406469

Pending CD Numbers:

Special Orders:

Total Depth: 17613

Ground Elevation: 2127

Surface Casing: 940

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

Approved Method for disposal of Drilling Fluids:

Type of Pit System: CLOSED Closed System Means Steel Pits

Type of Mud System: WATER BASED

Chlorides Max: 265000 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: ELK CITY

D. One time land application -- (REQUIRES PERMIT) PERMIT NO: 14-28484
H. CLOSED SYSTEM=STEEL PITS PER OPERATOR REQUEST

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.

HORIZONTAL HOLE 1

Sec 02 Twp 11N Rge 23W County ROGER MILLS

Spot Location of End Point: NW NW NW NE

Feet From: NORTH 1/4 Section Line: 245

Feet From: EAST 1/4 Section Line: 2635

Depth of Deviation: 13096

Radius of Turn: 11

Direction: 1

Total Length: 4789

Measured Total Depth: 17613

True Vertical Depth: 14664

End Point Location from Lease,

Unit, or Property Line: 245

Notes:

Category

Description

PENDING CD - 201406469

10/9/2014 - G72 - 02-11N-23W
X 183282 MRMN, CHRKU
X 211048 MRMN, CHRKL
1 WELL
NO OPER NAMED
REC 9/30/2014 (CANDLER)

PENDING CD - 201406470

10/9/2014 - G72 - 02-11N-23W (I.O.)
X 183282 MRMN, CHRKU
X 211048 CHRKL
SHL NCT 320 FSL NCT 2365 FWL,
COMP INT. NCT 330 FSL NCT 330 FNL NCT 1980 FWL NCT 1980 FEL,
NO OPER NAMED,
REC 9/30/2014 (CANDLER)

SPACING - 183282

10/9/2014 - G72 - (640) 02-11N-23W
EXT OTHERS
EXT 132600/145095 MRMN, CHRKU, OTHERS

SPACING - 211048

10/9/2014 - G72 - (640) 02-11N-23W
EXT 187300 CHRKL(FROM RDFK THROUGH BRVL), OTHERS
EXT OTHERS

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129 24012 HALL 2-2HB

129-24012

SEC 34
X = 1,520,312
Y = 173,285

SEC 36
X = 1,525,586
Y = 173,193

SEC 35
T-12-N, R-23-W

1/2" IRON ROD W/ CAP FND. SEC 3

2640' 330' 245' 2635'

LOT 4 LOT 3 LOT 2 LOT 1

BOTTOM HOLE LOCATION
245' FNL & 2635' FEL
UTM 14 X = 1,461,229
UTM 14 Y = 12,875,683
X = 1,522,947
Y = 172,994
35°27'51.95"
-99°36'06.95"
35.4644306
-99.6019306

LAST TAKE POINT
330' FNL & 2635' FEL
UTM 14 X = 1,461,228
UTM 14 Y = 12,875,598
X = 1,522,946
Y = 172,909
35°27'51.11"
-99°36'06.95"
35.4641972
-99.6019306

OKLA. COORDINATE SYSTEM
NAD-27
OKLAHOMA NORTH ZONE
U.S. FEET

CO. RD. "EW107S"

3/8" I.R. FND.
X = 1,520,267
Y = 170,653

WELL NAME	DISTANCE TO HORIZ.
HALL #1-2	1979'
BAKER #1-2	660'

GRID AZ = 00.959722° - 4704'

BAKER #1-2

SURFACE LOCATION
320' FSL & 2365' FWL
UTM 14 X = 1,460,924
UTM 14 Y = 12,870,974
X = 1,522,593
Y = 168,286
35°27'05.34"
-99°36'10.29"
35.4514853
-99.6028583

PENETRATION POINT & FIRST TAKE POINT
330' FSL & 2640' FWL
UTM 14 X = 1,461,198
UTM 14 Y = 12,870,982
X = 1,522,868
Y = 168,291
35°27'05.43"
-99°36'06.97"
35.4515083
-99.6019361

GRID AZ = 89.021389° - 275'

HALL #1-2

ENBRIDGE PIPELINE
217' S. OF STAKE

320' 330' COUNTY ROAD "EW108"

SEC 3
RR. SPIKE FND.
X = 1,520,224
Y = 168,015

SEC 11

SEC 2
X = 1,525,506
Y = 167,906

SEC 1
1/2" I.R. FND.
X = 1,525,506
Y = 167,906

LEGEND
PERMITTED
DRY HOLE
OIL
GAS
OIL/GAS
LUGGED OIL
LUGGED GAS
LUGGED OIL/GAS

- PERMITTED
- ⊙ DRY HOLE
- OIL
- ☼ GAS
- ☼ OIL/GAS
- PLUGGED OIL
- ☼ PLUGGED GAS
- ☼ PLUGGED OIL/GAS

1. This plat is intended for Oklahoma Corporation Commission Permit purposes only and is NOT to be relied upon as a boundary survey and is NOT to be used to convey or establish real property interests.
2. Bearings and dimensions shown are based on Geodetic Azimuth and Ground distance. All X,Y coordinates are based on NAD27, Oklahoma North Zone, U.S. Feet.
3. X,Y Coordinates were derived from GPS RTK methods and are only accurate within +/- 10 ft.

THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS PREPARED FROM FIELD NOTES OF ACTUAL SURVEYS MADE BY MYSELF OR OTHERS UNDER MY SUPERVISION AND THAT THE SAME ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

SIGNED: [Signature] DATED: 7/24/14



Certificate of Authorization No. 3415, Exp. June 30, 2016



ENFRVEST

FIELD:	KB,GPS
DRAWN:	SDT
DATE:	7/24/14
CHECKED:	MLS
REVISION:	



JOB NO.	214-668-1
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