

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

API NUMBER: 009 21939

Approval Date: 06/24/2014  
Expiration Date: 12/24/2014

Horizontal Hole Oil & Gas

PERMIT TO DRILL

WELL LOCATION: Sec: 27 Twp: 11N Rge: 26W County: BECKHAM  
SPOT LOCATION:  SW  NW  SE  SE FEET FROM QUARTER: FROM SOUTH FROM EAST  
SECTION LINES: 927 1152

Lease Name: BUFFALO 34 Well No: 1HC Well will be 927 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

BRYAN BRADY II & REBECCA BRADY  
22150 COUNTY ROAD 170  
PERRY OK 73077

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

Name	Depth	Name	Depth
1 MISSOURIAN	10934	6	
2		7	
3		8	
4		9	
5		10	

Spacing Orders: 154601  
485050

Location Exception Orders: 621340

Increased Density Orders:

Pending CD Numbers:

Special Orders:

Total Depth: 15683

Ground Elevation: 2080

**Surface Casing: 400**

Depth to base of Treatable Water-Bearing FM: 150

Under Federal Jurisdiction: No

Fresh Water Supply Well Drilled: No

Surface Water used to Drill: Yes

PIT 1 INFORMATION

Type of Pit System: CLOSED Closed System Means Steel Pits

Type of Mud System: WATER BASED

Chlorides Max: 650000 Average: 6500

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: 14-27406

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 34 Twp 11N Rge 26W County BECKHAM

Spot Location of End Point: SE SW SE SE

Feet From: SOUTH 1/4 Section Line: 245

Feet From: EAST 1/4 Section Line: 710

Depth of Deviation: 11090

Radius of Turn: 91

Direction: 180

Total Length: 4733

Measured Total Depth: 15683

True Vertical Depth: 11052

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

Notes:

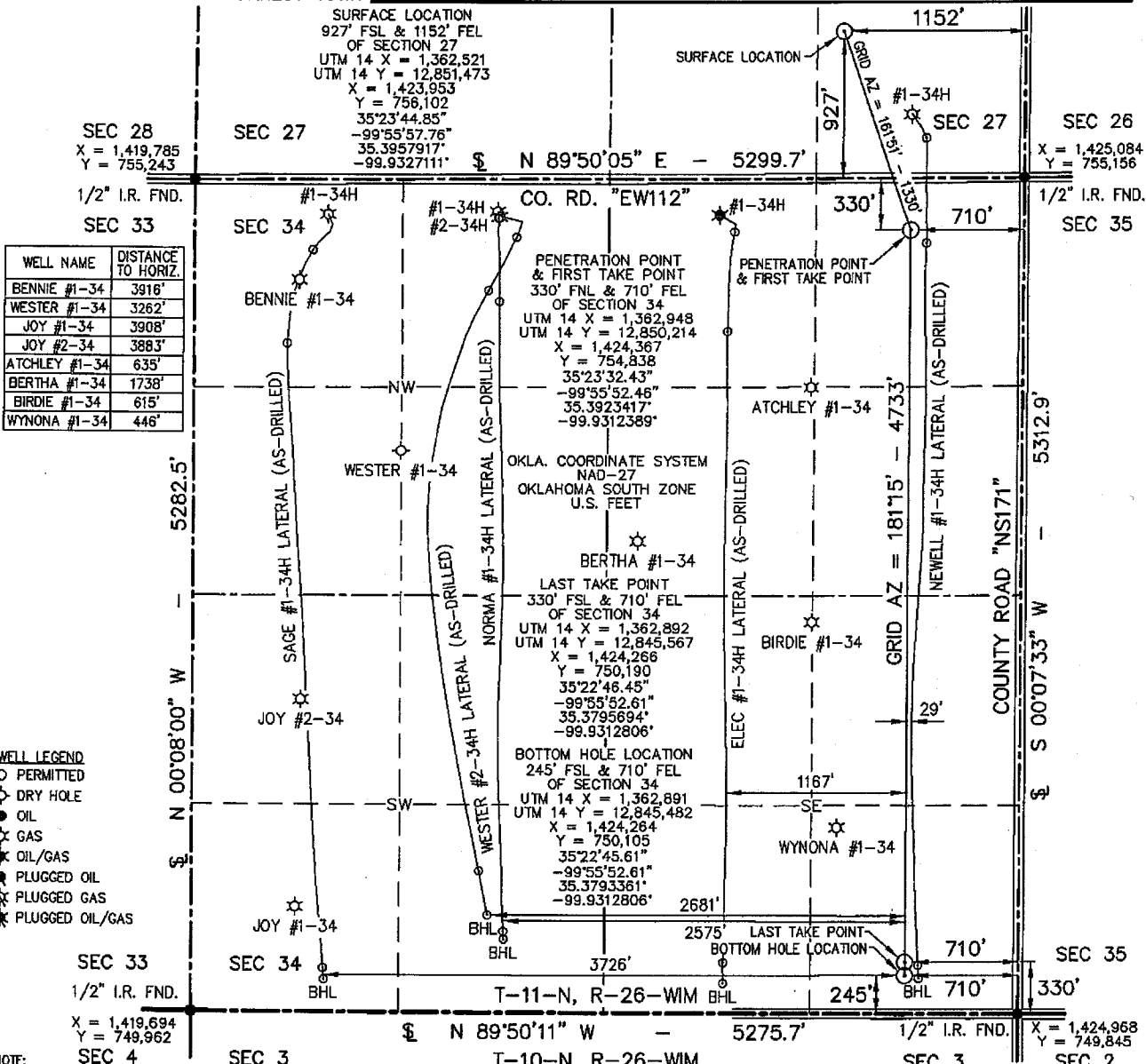
Category	Description
LOCATION EXCEPTION - 621340	6/24/2014 - G72 - 34-11N-26W (I.O.) X 154601, 485060 MSRN; COMP INT. NCT 300 FNL CT 300 FSL NCT 500; NO OPER NAMED; 2/6/2014
SPACING - 154601	6/24/2014 - G72 - (640) 34-11N-26W EXT 67733/147147 VRGL, MSGWU, DMGWL (CLARIFY TO MSRN, DSMN BY 485050) EXT 129891/147147 ATOK, PRMNL
SPACING - 485050	6/24/2014 - G72 - CLARIFY 154601 TO SPACE MSRN, DSMN

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.

API 00921939

PROPOSED NEW WELL LOCATION PLAT

COMPANY ENERVEST OPERATING, LLC LEASE BUFFALO 34 WELL NO. 1HC  
 SECTION 27 TOWNSHIP 11-N RANGE 26-WIM LOCATION 927' FSL 1152' FEL  
 COUNTY BECKHAM STATE OKLAHOMA TOPOGRAPHY AND VEGETATION TERRACED PASTURE  
 LATITUDE 35°23'44.85" LONGITUDE -99°55'57.76" NAD27 ELEVATION 2080' NGVD29 DATE STAKED 4/25/14  
 DIRECTION FROM NEAREST TOWN APPROXIMATELY 2.0 MILES SOUTHWEST OF SWEETWATER, OKLAHOMA



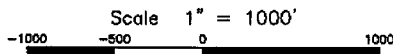
- WELL LEGEND**
- PERMITTED
  - DRY HOLE
  - OIL
  - ☆ GAS
  - ☆ OIL/GAS
  - PLUGGED OIL
  - ☆ PLUGGED GAS
  - ☆ PLUGGED OIL/GAS

**NOTE:**

- 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.
- Bearings and dimensions shown are based on Geodetic Azimuth and Ground Distance. All X,Y coordinates are based on NAD27, Oklahoma South Zone, U.S. Feet.
- X,Y Coordinates were derived from GPS RTK methods and are only accurate within +/- 10 feet.
- As-drilled data shown on this plat was provided by client and /or third party. Information was not nor has not been field verified by Surveyor.

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: \_\_\_\_\_ DATED: 4/29/14



**APEX**  
 SURVEYING & MAPPING, INC.  
 TEXAS \* OKLAHOMA \* KANSAS  
 8330 CANYON DRIVE AMARILLO, TEXAS 79119 806-353-7231  
 105 HACKBERRY TRAIL CANADIAN, TEXAS 79014 806-323-9773  
 Certificate of Authorization No. 3415, Exp. June 30, 2014

**ENERVEST**  
 1001 FANNIN STREET SUITE 600 HOUSTON, TEXAS 77002

FIELD:	KB,GPS
DRAWN:	AJV
DATE:	4/29/14
CHECKED:	MLS
REVISION:	



JOB NO. 214-432-1