

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

API NUMBER: 009 21954

Approval Date: 09/17/2014  
Expiration Date: 03/17/2015

Horizontal Hole Oil & Gas

PERMIT TO DRILL

WELL LOCATION: Sec: 34 Twp: 11N Rge: 26W County: BECKHAM  
SPOT LOCATION: SW SE SW SW FEET FROM QUARTER: FROM SOUTH FROM WEST  
SECTION LINES: 220 880

Lease Name: SAGE Well No: 2-34HA Well will be 220 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

JOY SITES  
11575 NORTH 1700 ROAD  
SWEETWATER OK 73666

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

	Name	Depth	Name	Depth
1	MISSOURIAN	11134	6	
2			7	
3			8	
4			9	
5			10	

Spacing Orders: No Spacing

Location Exception Orders:

Increased Density Orders:

Pending CD Numbers: 201406407  
201406405

Special Orders:

Total Depth: 15836 Ground Elevation: 2137 Surface Casing: 450 Depth to base of Treatable Water-Bearing FM: 200

Under Federal Jurisdiction: No Fresh Water Supply Well Drilled: Yes 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: 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 AP/TE DEPOSIT

Pit Location Formation: TERRACE

D. One time land application -- (REQUIRES PERMIT) PERMIT NO: 14-28320  
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: NW NE NW NW

Feet From: NORTH 1/4 Section Line: 245

Feet From: WEST 1/4 Section Line: 880

Depth of Deviation: 11209

Radius of Turn: 11

Direction: 360

Total Length: 4830

Measured Total Depth: 15836

True Vertical Depth: 11319

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

Notes:

Category	Description
PENDING CD - 201406405	9/17/2014 - G72 - 34-11N-26W (I.O.) X 154601/485050 MSRN SHL NCT 220 FSL NCT 500 FWL; COMP INT. NCT 330 FSL NCT 330 FNL NCT 500 FWL; BHL NCT 245 FNL NCT 500 FWL; NO OPER NAMED; REC 9/16/2014 (P PORTER)
PENDING CD - 201406407	9/17/2014 - G72 - 34-11N-26W X 154601/485050 MSRN; 1 WELL; NO OPER NAMED; REC 9/16/2014 (P PORTER)
SPACING - 154601	9/17/2014 - G72 - (640) 34-11N-26W EXT 67733/147147 VRGL, MSGWU, DMGWL (CLARIFY TO MSRN, DSMN BY 485050) EXT 129891/147147 ATOK, PRMNL
SPACING - 485050	9/17/2014 - G72 - CLARIFY 154601 TO SPACE MSRN, DSMN

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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.

009-21954

# PROPOSED NEW WELL LOCATION PLAT

EXHIBIT "A"

COMPANY ENERVEST OPERATING, LLC LEASE SAGE WELL NO. 2-34HA  
 SECTION 34 TOWNSHIP 11-N RANGE 26-WIM LOCATION 220' FSL 880' FWL  
 COUNTY BECKHAM STATE OKLAHOMA TOPOGRAPHY AND VEGETATION PASTURE  
 LATITUDE 35°22'45.48" LONGITUDE -99°56'37.13" NAD27 ELEVATION 2137' NGVD29 DATE STAKED 8/15/14  
 DIRECTION FROM NEAREST TOWN APPROXIMATELY 3.0 MILES SOUTHWEST OF SWEETWATER, OKLAHOMA

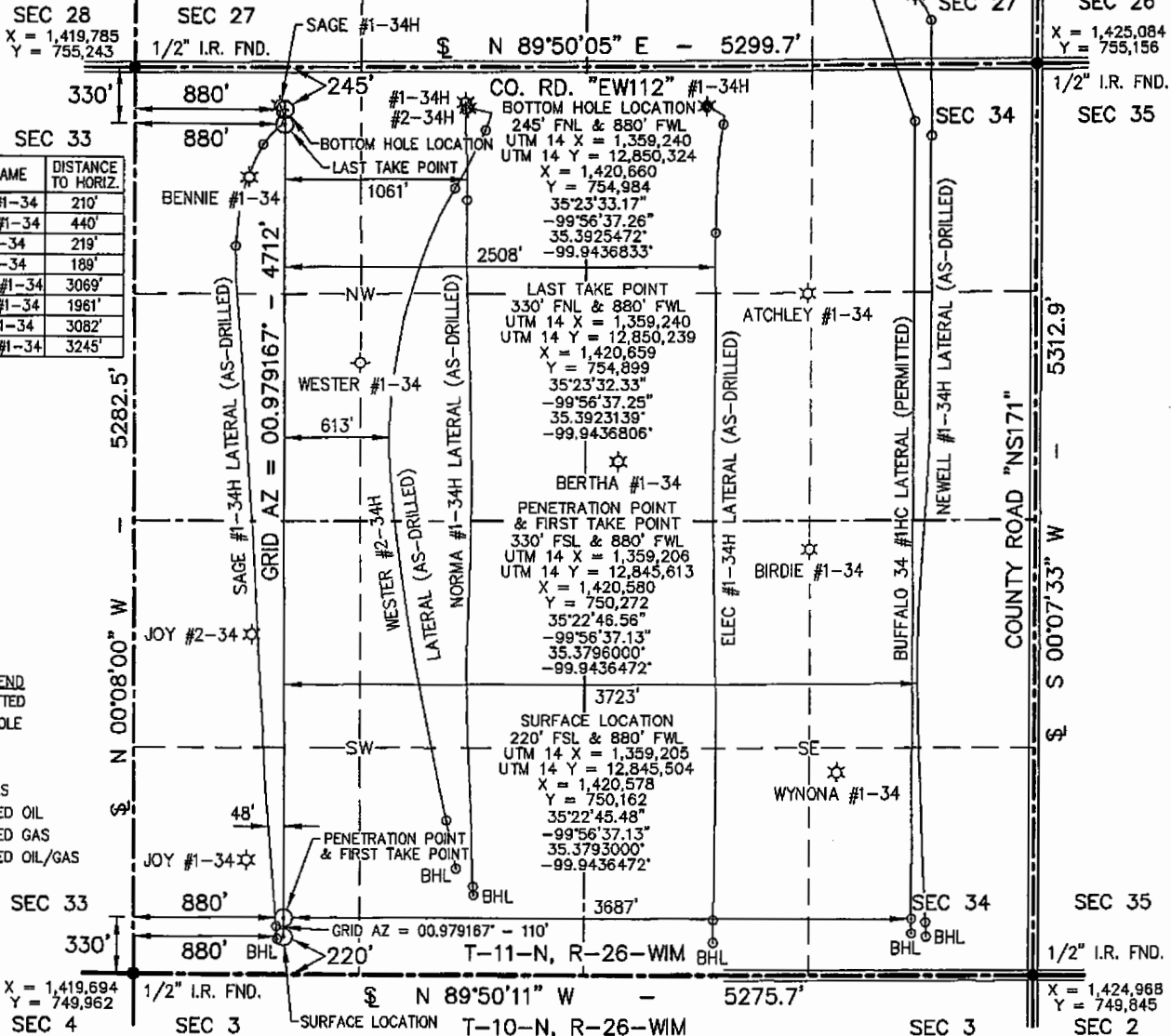
OKLA. COORDINATE SYSTEM  
 NAD-27  
 OKLAHOMA SOUTH ZONE  
 U.S. FEET

SEC 28  
 X = 1,419,785  
 Y = 755,243

SEC 27  
 1/2" I.R. FND.

SEC 26  
 X = 1,425,084  
 Y = 755,156

WELL NAME	DISTANCE TO HORIZ.
BENNIE #1-34	210'
WESTER #1-34	440'
JOY #1-34	219'
JOY #2-34	189'
ATCHLEY #1-34	3069'
BERTHA #1-34	1961'
BIRDIE #1-34	3082'
WYNONA #1-34	3245'

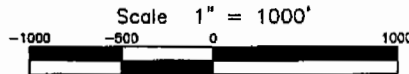


- WELL LEGEND**
- PERMITTED
  - ◇ DRY HOLE
  - OIL
  - ★ GAS
  - ☆ OIL/GAS
  - ⊙ PLUGGED OIL
  - ⊙ PLUGGED GAS
  - ⊙ PLUGGED OIL/GAS

- 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 XY 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: 8/18/14



**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, 2016

**ENERVEST**  
 1001 FANNIN STREET SUITE 800 HOUSTON, TEXAS 77002

FIELD:	KB,GPS
DRAWN:	AJV
DATE:	8/18/14
CHECKED:	MLS
REVISION:	

JOB NO. 214-728-1