

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

API NUMBER: 045 23557

Approval Date: 01/07/2015  
Expiration Date: 07/07/2015

Horizontal Hole Oil & Gas

PERMIT TO DRILL

WELL LOCATION: Sec: 16 Twp: 20N Rge: 25W County: ELLIS  
SPOT LOCATION:  NW  NW  NE  NW FEET FROM QUARTER: FROM NORTH FROM WEST  
SECTION LINES: 236 1606

Lease Name: PANTHERS 16 Well No: 2H Well will be 236 feet from nearest unit or lease boundary.  
Operator Name: JONES ENERGY LLC Telephone: 5123282953 OTC/OCC Number: 21043 0

JONES ENERGY LLC  
807 LAS CIMAS PKWY STE 350  
AUSTIN, TX 78746-6193

EARL R. & MARILYN J. SCHOENHALS  
RT. 2, BOX 88  
SHATTUCK OK 73858

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

Name	Depth	Name	Depth
1 CLEVELAND	8140	6	
2		7	
3		8	
4		9	
5		10	

Spacing Orders: 504825 Location Exception Orders: 633625 Increased Density Orders: 633797

Pending CD Numbers:

Special Orders:

Total Depth: 13554 Ground Elevation: 2386 **Surface Casing: 640** Depth to base of Treatable Water-Bearing FM: 590

Under Federal Jurisdiction: No Fresh Water Supply Well Drilled: No Surface Water used to Drill: No

PIT 1 INFORMATION

Type of Pit System: ON SITE  
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: 1B

Liner required for Category: 1B

Pit Location is BED AQUIFER  
Pit Location Formation: OGALLALA

Approved Method for disposal of Drilling Fluids:

- A. Evaporation/dewater and backfilling of reserve pit.
- D. One time land application -- (REQUIRES PERMIT) PERMIT NO: 14-29015
- 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 16 Twp 20N Rge 25W County ELLIS

Spot Location of End Point: SW SW SE SW

Feet From: SOUTH 1/4 Section Line: 165

Feet From: WEST 1/4 Section Line: 1485

Depth of Deviation: 7554

Radius of Turn: 650

Direction: 182

Total Length: 4979

Measured Total Depth: 13554

True Vertical Depth: 8204

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

Notes:

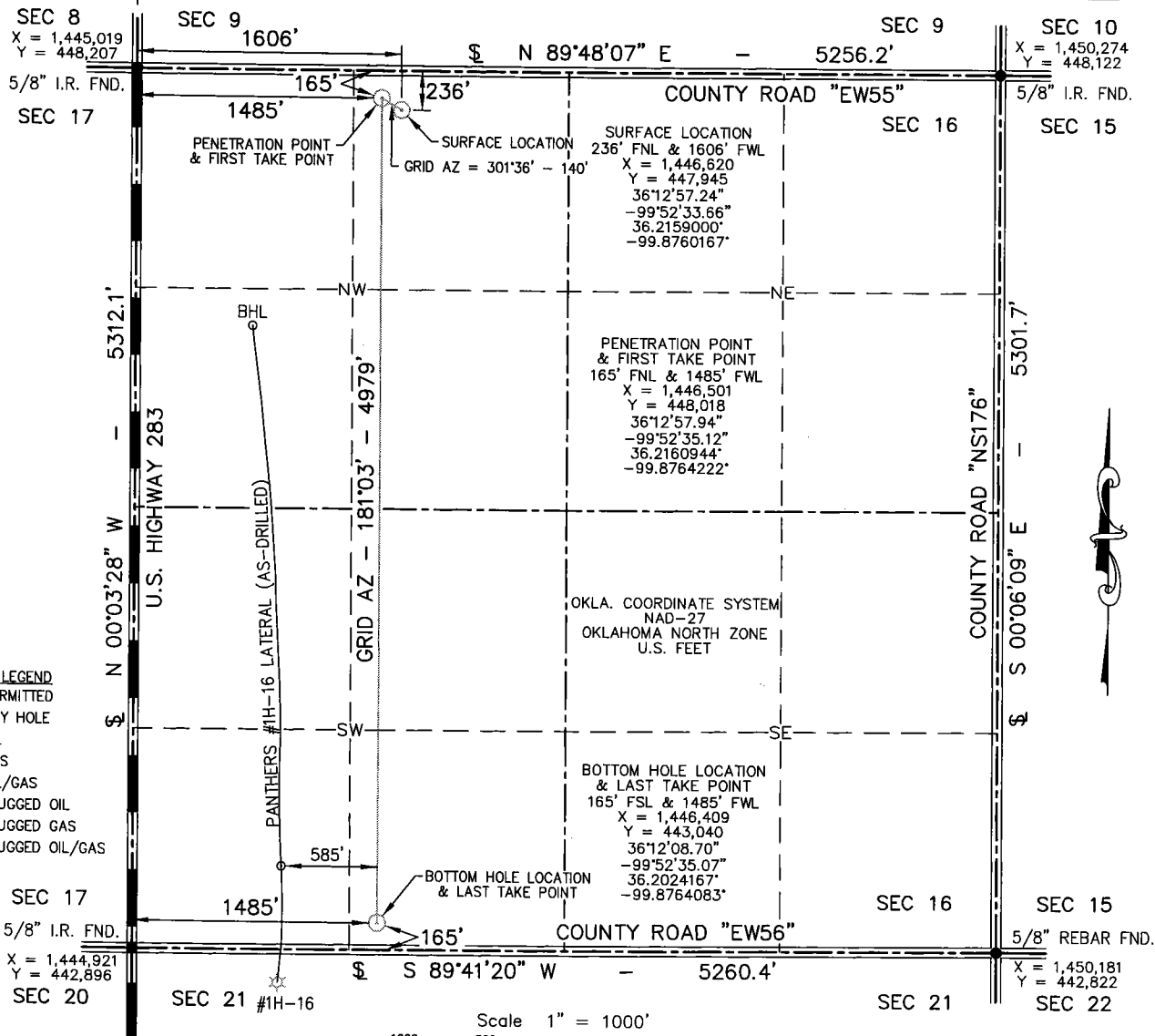
Category	Description
INCREASED DENSITY - 633797	1/6/2015 - G75 - 16-20N-25W X504825 CLVD 4 WELLS JONES ENERGY, LLC 12-4-2014
LOCATION EXCEPTION - 633625	1/6/2015 - G75 - (I.O.) 16-20N-25W X504825 CLVD X165:10-3-28 AS CLOSE AS 500' TO AN EXISTING WELLBORE FIRST PERF NCT 165 FNL, NCT 1485 FWL LAST PERF NCT 165 FSL, NCT 1485 FWL JONES ENERGY, LLC 12-1-2014
MEMO	11/14/2014 - G71 - PIT 1 - SOIL COMPACTED PIT, NOTIFY DISTRICT PRIOR TO TESTING SOIL PIT LINER; PIT 2 - CLOSED SYSTEM=STEEL PITS PER OPERATOR REQUEST, OBM TO VENDOR, OBM CUTTINGS PER DISTRICT
SPACING - 504825	1/6/2015 - G75 - (640) 16-20N-25W EXT 185772 CLVD, OTHERS EST OTHER

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Office of the Conservation Division as to when Surface Casing will be run.

API 045-23557

# PROPOSED NEW WELL LOCATION PLAT

COMPANY JONES ENERGY, LLC LEASE PANTHERS 16 WELL NO. 2H  
 SECTION 16 TOWNSHIP 20-N RANGE 25-W1M LOCATION 236' FNL 1606' FWL  
 COUNTY ELLIS STATE OKLAHOMA TOPOGRAPHY AND VEGETATION PASTURE  
 LATITUDE 36°12'57.24" LONGITUDE -99°52'33.66" NAD27 ELEVATION 2386' NGVD29 DATE STAKED 9/10/14  
 DIRECTION FROM NEAREST TOWN APPROXIMATELY 4.0 MILES SOUTH OF SHATTUCK, OKLAHOMA



**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 North Zone, U.S. Feet.
- X,Y Coordinates were derived from GPS RTK methods and are only accurate within +/- 10 feet.

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: 9/11/14



**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

**JONES**  
 807 LAS OMAS PARKWAY SUITE 350 AUSTIN, TEXAS 78748

FIELD:	JT,SF,GPS
DRAWN:	SDT
DATE:	9/11/14
CHECKED:	MLS
REVISION:	

JOB NO. 211-443-1.1