

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

API NUMBER: 083 24352

Approval Date: 11/25/2014

Expiration Date: 05/25/2015

Horizontal Hole Oil & Gas

PERMIT TO DRILL

WELL LOCATION: Sec: 13 Twp: 17N Rge: 3W

County: LOGAN

SPOT LOCATION: ☐ SE ☐ SE ☐ SW ☐ SW

FEET FROM QUARTER: FROM SOUTH FROM WEST

SECTION LINES: 200 1198

Lease Name: PLAGG 17-3-13

Well No: 1 HW

Well will be 200 feet from nearest unit or lease boundary.

Operator Name: SUNDANCE ENERGY OKLAHOMA LLC dba SEO LLC

Telephone: 3034070471

OTC/OCC Number: 22918 0

SUNDANCE ENERGY OKLAHOMA LLC dba SEO LLC  
633 17TH ST STE 1950  
DENVER , CO 80202-3620

RON RAY PLAGG & HUBERT W PLAGG, TTEE.  
1700 W COUNTY ROAD 74  
GUTHRIE OK 73044

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

	Name	Depth	Name	Depth
1	WOODFORD	5849	6	
2	HUNTON	5938	7	
3			8	
4			9	
5			10	

Spacing Orders: 616079

Location Exception Orders:

Increased Density Orders:

Pending CD Numbers: 201408535  
201408536

Special Orders:

Total Depth: 10400

Ground Elevation: 1116

**Surface Casing: 410**

Depth to base of Treatable Water-Bearing FM: 360

Under Federal Jurisdiction: No

Fresh Water Supply Well Drilled: No

Surface Water used to Drill: Yes

**PIT 1 INFORMATION**

Type of Pit System: ON SITE

Type of Mud System: WATER BASED

Chlorides Max: 5000 Average: 3000

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: 2**

**Liner not required for Category: 2**

Pit Location is BED AQUIFER

Pit Location Formation: GARBER

Approved Method for disposal of Drilling Fluids:

A. Evaporation/dewater and backfilling of reserve pit.

D. One time land application -- (REQUIRES PERMIT)

PERMIT NO: 14-29010

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 13 Twp 17N Rge 3W County LOGAN

Spot Location of End Point: NE NW NE NW

Feet From: SOUTH 1/4 Section Line: 2481

Feet From: WEST 1/4 Section Line: 1810

Depth of Deviation: 5140

Radius of Turn: 611

Direction: 4

Total Length: 4300

Measured Total Depth: 10400

True Vertical Depth: 6000

End Point Location from Lease,

Unit, or Property Line: 159

## Notes:

### Category

### Description

PENDING CD - 201408535

11/25/2014 - G91 - (E.O.)(640)(HOR) 13-17N-3W  
VAC 160911/498272 HNTN, MSRH  
EXT 629141 HNTN  
POE TO BHL NCT 660' FB  
REC. 11-21-2014 (OSBURN)

PENDING CD - 201408536

11/25/2014 - G91 - (E.O.) 13-17N-3W  
X616079 WDFD, OTHER  
X201408535 HNTN  
COMPL. INT. NCT 150 FSL, NCT 150 FNL, NCT 1700 FWL  
NO OP. NAMED  
REC. 11-21-2014 (OSBURN)

SPACING - 616079

11/25/2014 - G91 - (640)(HOR) 13-17N-3W  
EXT 611948 WDFD, OTHER  
POE TO BHL NCT 330' FB  
(SUPERCEDE NON-DEVELOP NON-HORIZONTAL SPACING UNITS; COEXIST PRODUCING NON-HORIZONTAL SPACING UNITS)

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.

083 24352 PLAGG 17-3-13 1 HW

# TOPOGRAPHIC LAND SURVEYORS OF OKLAHOMA

6709 NORTH CLASSEN BLVD., OKLA. CITY, OKLA. 73116 \* LOCAL (405) 843-4847 \* OUT OF STATE (800) 654-3219  
Certificate of Authorization No. 1293.

083-24352

LOGAN

County, Oklahoma

200'FSL-1198'FWL Section 13 Township 17N Range 3W I.M.

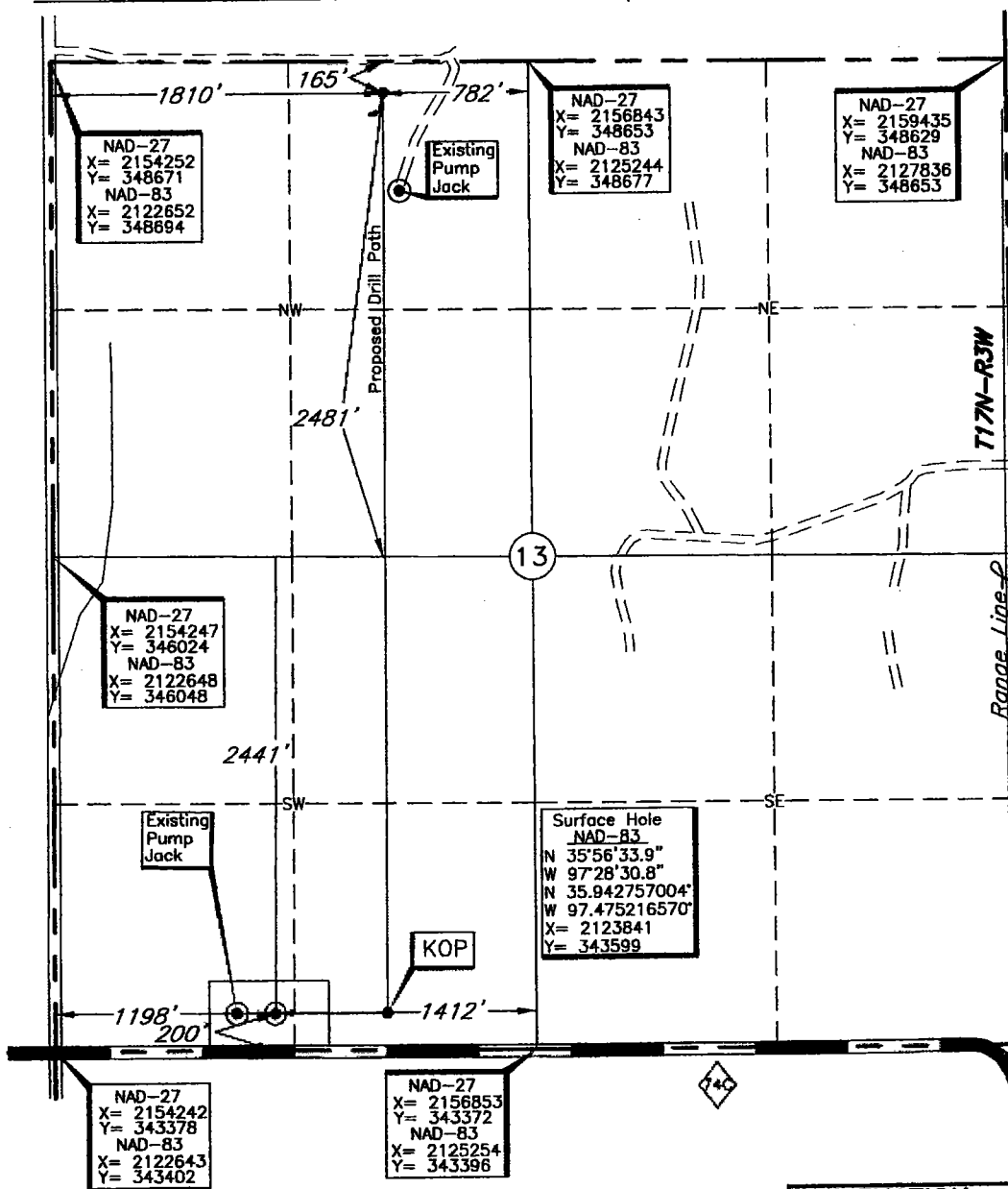
BOTTOM HOLE  
165'FNL-1810'FWL  
NAD-27 (US Feet)  
N 35°57'22.4"  
W 97°28'21.7"  
N 35.956212889"  
W 97.472708301"  
X= 2156061  
Y= 348493  
NAD-83  
N 35°57'22.5"  
W 97°28'22.9"  
N 35.956257247"  
W 97.473029108"  
X= 2124462  
Y= 348517



GRID  
NAD-27  
OK NORTH  
US Feet

Scale:  
1" = 1000'

KOP  
200'FSL-1810'FWL  
NAD-27  
N 35°56'33.7"  
W 97°28'22.2"  
N 35.942699077"  
W 97.472829130"  
X= 2156052  
Y= 343574  
NAD-83  
N 35°56'33.9"  
W 97°28'23.3"  
N 35.942743877"  
W 97.473149782"  
X= 2124453  
Y= 343598



NOTE:  
The information shown herein is for  
construction purposes ONLY.

BOTTOM HOLE, KOP, AND DRILL PATH INFORMATION  
PROVIDED BY OPERATOR LISTED, NOT SURVEYED.

Operator: SUNDANCE ENERGY

Lease Name: PLAGG 17-3-13

Well No.: 1HW

ELEVATION:

1116' Gr. at Pad

Topography & Vegetation Loc. fell on Level Pad 164' East of back side of Pump Jack; ±208' East of Pump Jack

Good Drill Site? Yes Reference Stakes or Alternate Location  
Stakes Set None

Best Accessibility to Location From South off St. Hwy 74C

Distance & Direction From Jct. of US Hwy 77 N-S and St. Hwy 74C W North of Guthrie, Ok,

go West on St. Hwy 74C ±2 miles, then 1 mile North; then 1 miles West to the SW Corner of Sec. 13-T17N-R3W

Date of Drawing: Nov. 3, 2014

Invoice # 233490

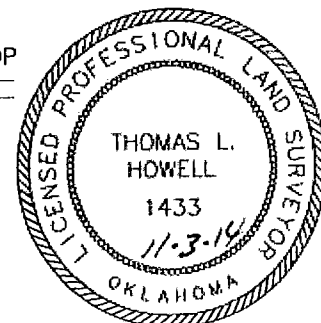
Date Staked: Oct. 30, 2014

DP

## CERTIFICATE:

I, Thomas L. Howell a Oklahoma Licensed Land  
Surveyor and an authorized agent of Topographic Land  
Surveyors of Oklahoma, do hereby certify to the  
information shown herein

Thomas L. Howell  
Oklahoma Lic. No. 1433



DATUM: NAD-27  
LAT: 35°56'33.8"N  
LONG: 97°28'29.6"W  
LAT: 35.942712259"N  
LONG: 97.474895856"W  
STATE PLANE  
COORDINATES: (US Feet)  
ZONE: OK NORTH  
X: 2155441  
Y: 343575

This information was  
gathered with a GPS receiver  
with ±1 foot Horiz./Vert. accuracy.