

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

API NUMBER: 083 24346

Approval Date: 10/27/2014

Expiration Date: 04/27/2015

Horizontal Hole Oil & Gas

PERMIT TO DRILL

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

County: LOGAN

SPOT LOCATION: ☐ SE ☐ SE ☐ SW ☐ SE

FEET FROM QUARTER: FROM SOUTH FROM WEST

SECTION LINES: 185 1312

Lease Name: PLAGG 17-3-13

Well No: 3HM

Well will be 185 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

BETTY MARIE ABELL
1114 NORTH MAGNOLIA COURT
GUTHRIE OK 73044

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

	Name	Depth	Name	Depth
1	MISSISSIPPIAN	5659	6	
2	WOODFORD	5849	7	
3			8	
4			9	
5			10	

Spacing Orders: 616079

Location Exception Orders: 632110

Increased Density Orders:

Pending CD Numbers: 201407514

Special Orders:

Total Depth: 10912

Ground Elevation: 1096

Surface Casing: 320

Depth to base of Treatable Water-Bearing FM: 270

Under Federal Jurisdiction: No

Fresh Water Supply Well Drilled: No

Surface Water used to Drill: Yes

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: 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: C

Liner not required for Category: C

Pit Location is BED AQUIFER

Pit Location Formation: GARBER

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

PERMIT NO: 14-28677

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 13 Twp 17N Rge 3W County LOGAN

Spot Location of End Point: N2 NE NE NW

Feet From: SOUTH 1/4 Section Line: 2480

Feet From: WEST 1/4 Section Line: 2310

Depth of Deviation: 5627

Radius of Turn: 1100

Direction: 360

Total Length: 4187

Measured Total Depth: 10912

True Vertical Depth: 5897

End Point Location from Lease,

Unit, or Property Line: 160

Notes:

Category

Description

LOCATION EXCEPTION - 632110

10/21/2014 - G72 - 13-17N-03W (E.O.)
X 616079 MSSP, WDFD;
COMP INT. NCT 150 FSL NCT 150 FNL NCT 2210 FWL;
SUNDANCE ENERGY OKLAHOMA LLC DBA SEO, LLC,
10/22/2014 (NORRIS)

PENDING CD - 201407514

10/21/2014 - G72 - 13-17N-03W X 616079 MSSP,
1 WELL,
NO OPER NAMED,
HRG 11/4/2014

SPACING - 616079

10/21/2014 - G72 - (640)(HOR) 13-17N-3W
EST MSRH
EXT 611948 MSSP, WDFD
POE TO BHL (WDFD) NLT 330' FB
POE TO BHL (OTHERS) NLT 660' FB
(SUPERSEDE SP. ORDER # 160911, MISS, HNTN, W2 & SP. ORDER # 498272, MSRH, E2;
COEXIST WITH SP. ORDER # 498272, MSSLM, 7 WELLS, NE4 & SE4)

This permit does not address the right of entry or settlement of surface damages.

083 24346 PLAGG 17-3-13 3HM

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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

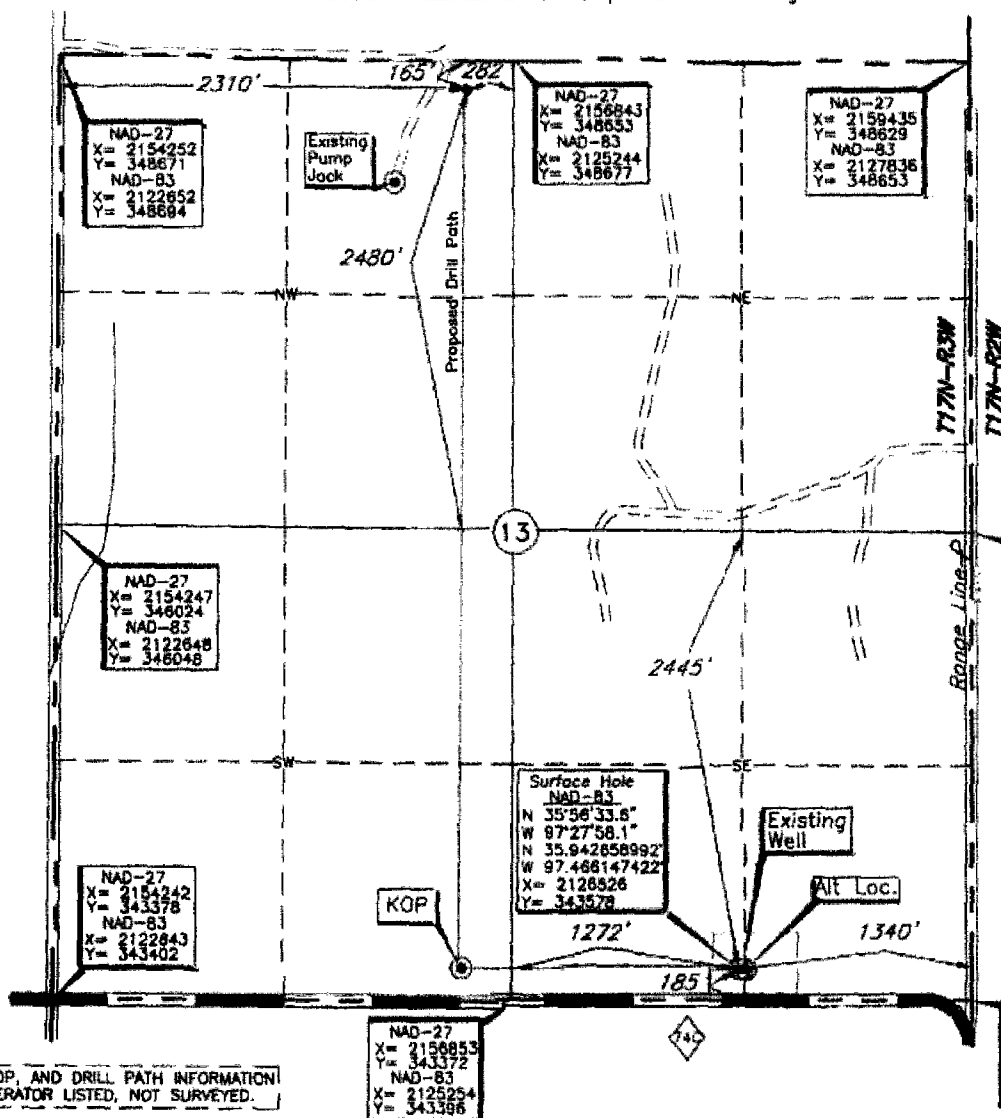
LOGAN

County, Oklahoma

185° FSL-1340° FEL Section 13 Township 17N Range 3W I.M.

CD 201407516

BOTTOM HOLE
165° FNL-2310° FNL
NAD-27 (US Feet)
N 35°57'22.3"
W 97°28'15.7"
N 35.956195916°
W 97.471019039°
X= 2158561
Y= 348480
NAD-83
N 35°57'22.5"
W 97°28'16.8"
N 35.956240320°
W 97.471339796°
X= 2124962
Y= 348514



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

GRID
NAD-27
OK NORTH
US Feet
Scale:
1" = 1000'

KOP
185° FSL-2310° FNL
NAD-27
N 35°56'33.5"
W 97°28'16.1"
N 35.942647169°
W 97.471140469°
X= 2158552
Y= 343558
NAD-83
N 35°56'33.7"
W 97°28'17.3"
N 35.942692015°
W 97.471481071°
X= 2124953
Y= 343582

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

Operator: SUNDANCE ENERGY

Lease Name: PLAGG 17-3-13

Well No.: 3HM

ELEVATION:

1096' Gr. at Level Pad

Topography & Vegetation Loc. fell on Level Pad with rig. SHL 20' West of existing well, Alt. is 20' East of existing well.

Good Drill Site? Yes; Alt. Yes

Reference Stakes or Alternate Location

Stakes Set Alt- 185° FSL-1300° FEL; Elev. 1096' Gr. at Level Pad

Best Accessibility to Location From South off of St. HWY 74C

Distance & Direction

From Hwy Jct or Town From Jct. of SH 74 N-S and SH 74C West. North of Guthrie, OK. go

±2 miles West, then ±1 mile North on SH 74C to SE corner of Sec. 13-T17N-R3W

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

DATUM: NAD-27
LAT: 35°56'33.4"N
LONG: 97°27'57.0"W
LAT: 35.942614004°N
LONG: 97.465826978°W
STATE PLANE
COORDINATES: (US Feet)
ZONE: OK NORTH
X: 2158125
Y: 343554

Invoice # 232194 Date of Drawing: Oct. 9, 2014
Date Staked: Oct. 8, 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

