

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

API NUMBER: 083 24092 A

Approval Date: 11/22/2013
Expiration Date: 05/22/2014

Horizontal Hole Oil & Gas

PERMIT TO DRILL

WELL LOCATION: Sec: 13 Twp: 16N Rge: 4W County: LOGAN
SPOT LOCATION: NW NE NW NW FEET FROM QUARTER: FROM SOUTH FROM WEST
SECTION LINES: 2355 677

Lease Name: FRICK 16-4-13 Well No: 1 HW Well will be 285 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

DIANE FRICK
1101 BASSETT RD
GUTHRIE OK 73044

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

Name	Depth	Name	Depth
1 MISSISSIPPIAN	5045	6	
2 WOODFORD	5056	7	
3 MISENER-HUNTON	5187	8	
4		9	
5		10	

Spacing Orders: 607034

Location Exception Orders: 608513

Increased Density Orders:

Pending CD Numbers:

Special Orders:

Total Depth: 10800

Ground Elevation: 1045

Surface Casing: 500

Depth to base of Treatable Water-Bearing FM: 450

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: 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

Approved Method for disposal of Drilling Fluids:

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

PERMIT NO: 13-24970

H. CLOSED SYSTEM=STEEL PITS PER OPERATOR OPTION

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 16N Rge 4W County LOGAN

Spot Location of End Point: S2 S2 SW SW

Feet From: SOUTH 1/4 Section Line: 165

Feet From: WEST 1/4 Section Line: 660

Depth of Deviation: 5388

Radius of Turn: 712

Direction: 183

Total Length: 4900

Measured Total Depth: 10800

True Vertical Depth: 5988

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

Notes:

Category	Description
LOCATION EXCEPTION - 608513	11/22/2013 - G30 - (I.O.) 13-16N-4W X607034 MSSP, WDFD, MSRH COMP. INT. NCT 290 FNL, NCT 165 FSL, NCT 330 FWL SUNDANCE ENERGY OKLAHOMA, LLC DBA SEO, LLC 3/5/13
SPACING - 607034	11/22/2013 - G30 - (80/160/640) 13-16N-4W (80) EST OTHERS (80) EXT OTHERS (160) EST OTHERS (640 HOR) EST MSSP, WDFD, MSRH POE TO BHL (WDFD) NLT 330' FB POE TO BHL (MSSP, MSRH) NLT 660' FB SUPERSEDE NON-DEVELOPED NON-HORIZONTAL SPACING UNITS; COEXIST WITH DEVELOPED NON-HORIZONTAL SPACING UNITS)