

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

API NUMBER: 083 24333

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

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 1292

Lease Name: **PLAGG 17-3-13** Well No: **2HM** 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: 628544 Increased Density Orders: 628543

Pending CD Numbers:

Special Orders:

Total Depth: 10530 Ground Elevation: 1096 **Surface Casing: 330** Depth to base of Treatable Water-Bearing FM: 280

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: 14-28339
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: NE NE NW NE

Feet From: SOUTH 1/4 Section Line: 2477

Feet From: WEST 1/4 Section Line: 1272

Depth of Deviation: 5100

Radius of Turn: 896

Direction: 355

Total Length: 4026

Measured Total Depth: 10530

True Vertical Depth: 5938

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

Notes:

Category	Description
INCREASED DENSITY - 628543	9/9/2014 - G72 - 13-17N-03W X 616079 MSSP 1 WELL SUNDANCE ENERGY OKLAHOMA, LLC, DBA SEO, LLC, 7/31/2014
LOCATION EXCEPTION - 628544	9/9/2014 - G72 - 13-17N-03W (I.O.) X 616079 MSSP, WDFD; COMP INT. NCT 150 FSL NCT 150 FNL NCT 330 FEL; SUNDANCE ENERGY OKLAHOMA, LLC, DBA SEO, LLC, 7/31/2014
SPACING - 616079	9/9/2014 - G72 - (640)(HOR) 13-17N-3W EST MSR 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, MSR, E2; COEXIST WITH SP. ORDER # 498272, MSSLM, 7 WELLS, NE4 & SE4)

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