

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

API NUMBER: 137 27381

Approval Date: 12/02/2014
Expiration Date: 06/02/2015

Straight Hole Oil & Gas

PERMIT TO DRILL

WELL LOCATION: Sec: 18 Twp: 2S Rge: 4W County: STEPHENS
SPOT LOCATION: FEET FROM QUARTER: FROM SOUTH FROM WEST
SECTION LINES: 330 2145

Lease Name: LAWRENCE Well No: 4-18 Well will be 165 feet from nearest unit or lease boundary.
Operator Name: HOGBACK EXPLORATION INC Telephone: 4797099014 OTC/OCC Number: 21161 0

HOGBACK EXPLORATION INC
PO BOX 180368
FORT SMITH, AR 72918-0368

H.D. LAWRENCE
P.O. BOX 4
LOCO OK 73442

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

	Name	Depth	Name	Depth
1	DEESE	1400	6	
2			7	
3			8	
4			9	
5			10	

Spacing Orders: 25529

Location Exception Orders:

Increased Density Orders:

Pending CD Numbers:

Special Orders:

Total Depth: 2800

Ground Elevation: 988

Surface Casing: 220

Depth to base of Treatable Water-Bearing FM: 110

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: 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: WELLINGTON

Approved Method for disposal of Drilling Fluids:

A. Evaporation/dewater and backfilling of reserve pit.

Notes:

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.

137 27381 LAWRENCE 4-18

Category	Description
FRAC FOCUS	12/2/2014 - G76 - THE REQUIREMENT FOR CHEMICAL DISCLOSURE OF HYDRAULIC FRACTURING INGREDIENTS WILL BE EXTENDED TO INCLUDE ALL NON-HORIZONTAL WELLS FOR HYDRAULIC FRACTURING OPERATIONS BEGINNING JANUARY 1, 2014. REFER TO OCC RULE 165:10-3-10 FOR COMPLIANCE REQUIREMENTS. PLEASE REPORT DIRECTLY TO FRACFOCUS USING THE FOLLOWING LINK HTTP://FRACFOCUS.ORG/ OR FOR OCC ASSISTANCE CONTACT DENNIS NISKERN AT 405-522-2977 OR D.NISKERN@OCCEMAIL.COM
SPACING - 25529	12/2/2014 - G76 - (10) W2 18-2S-4W EST DEESS

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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.

APT 137-27381

Well Location Plat

M & M Land Surveying, Inc.

520 "E" Street NW. Ardmore, OK. 73401

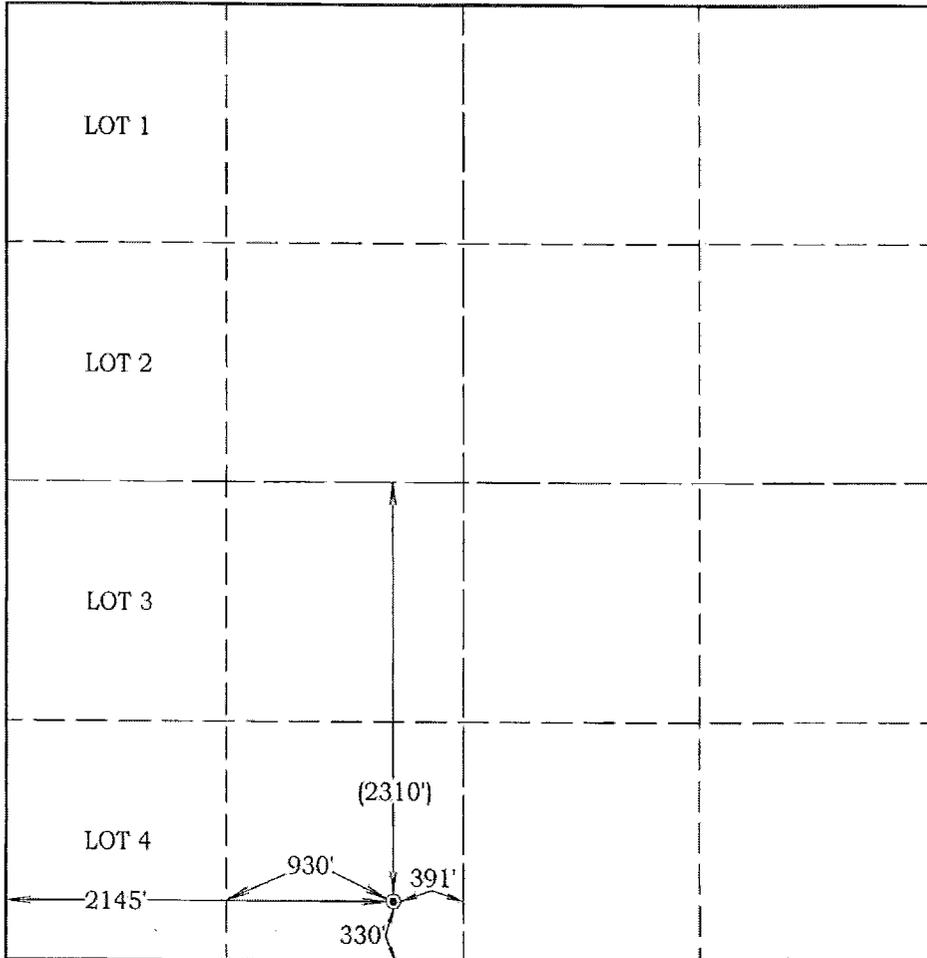
Office 580-226-0446 Mobile 580-221-4999 Fax 580-226-7158

Company Name: Hogback Exploration, Inc. Lease Name: Lawrence #4-18

Section 18 Township 2 South Range 4 West County Stephens Oklahoma

Primary Location 330' FSL - 2145' FWL Elevation 988' Good Location? Yes Topography Location fell in pasture with scattered brush.

Alternate # 1 _____
Alternate # 2 _____



Scale: 1" = 1000'
Invoice # 14493
Date 11/10/14

Location G.P.S. (WGS84)
Latitude: 34.37716°
Longitude: 97.66016°

Best Accessibility to Location
From the South

Distance & Direction From From the Jct. of SH. #53 and SH. #89 South, go 3.4 miles West on SH. #53, then 1 mile North, 1 mile West, then 3 miles North on County Roads to the Southwest Corner of Section 18
Highway or Town _____

CERTIFICATE:

I, D. Harry McClintick, a Registered Land Surveyor in the state of Oklahoma, do hereby certify that the above described Well Location was surveyed and staked on the ground as shown.

D. Harry McClintick
D. Harry McClintick, R.P.L.S. # 1367, CA # 3093

This location has been staked according to the best official survey records available to us, but its accuracy is not guaranteed. Please review this plat and notify us immediately of any discrepancy.

The distances shown in parenthesis () are calculated distances based on the quarter section being 2640' and have not been measured.

