API NUMBER: 103 24543

Oil & Gas

Horizontal Hole

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

Approval Date: 06/25/2013
Expiration Date: 12/25/2013

PERMIT TO DRILL

							SECTION LINES:				
SPOT LOCATION:	NE	NW	N'	W	NW		FEET FROM QUARTER:	FROM	SOUTH	FROM	WEST
WELL LOCATION:	Sec:	22	Twp:	21N	Rge:	2E	County	NOB	LE		

Lease Name: SCHOOL-BARRON Well No: 16-1H Well will be 295 feet from nearest unit or lease boundary.

Operator Name: Telephone: 4057495263; 4057495 OTC/OCC Number: 22912 0

HIGHMOUNT OPERATING LLC 14000 QUAIL SPRINGS PKWY FL 600

OKLAHOMA CITY, OK 73134-2616

JEANNIE G. SHARDEIN 10400 N. BETHEL RD.

GLENCOE OK 74032

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

	Name	Depth	Name	Depth
1	WOODFORD	4443 6		
2		7		
3		8		
4		9		
5		10		
Spacing Orders:	591772	Location Exception Orders:	Inci	reased Density Orders:

Pending CD Numbers: 201303813 Special Orders:

Total Depth: 10150 Ground Elevation: 948 Surface Casing: 400 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 Approved Method for disposal of Drilling Fluids:

Type of Pit System: ON SITE A. Evaporation/dewater and backfilling of reserve pit.

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.

Fit is located in a riyulologically Serisitive Area.

Category of Pit: 2

Liner not required for Category: 2

Pit Location is BED AQUIFER

Pit Location Formation: WELLINGTON

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 16 Twp 21N Rge 2E County **NOBLE** Spot Location of End Point: NE ΝE NE NE Feet From: SOUTH 1/4 Section Line: 2495 Feet From: WEST 1/4 Section Line: 2313

Depth of Deviation: 3600 Radius of Turn: 1750

Direction: 360 Total Length: 4800

Measured Total Depth: 10150 True Vertical Depth: 4450 End Point Location from Lease. Unit, or Property Line: 145

Notes:

Description Category

PENDING CD - 201303813 6/20/2013 - G30 - (E.O.) 16-21N-2E

X591772 WDFD **XOTHER**

COMP. INT. NCT 150 FSL, NCT 150 FNL, NCT 330 FWL**

NO OP. NAMED REC 6/21/13 (OSBURN)

**LOCATION TO BE AMENDED IN HEARING ON 6/21/13, NCT 330 FEL

SPACING - 591772 6/20/2013 - G30 - (640 HOR) 16-21N-2E

EST WDFD

POE TO BHL: NCT 330' FB

(SUPERCEDE NON-DEVELOPED NON-HORIZONTAL SPACING UNITS)

WATERSHED STRUCTURE 6/20/2013 - G71 - WELL WITHIN 1/2 MILE OF AN OKLAHOMA CONSERVATION COMMISSION

WATERSHED STRUCTURE. CONTACT THE LOCAL CONSERVATION DISTRICT OFFICE AT (580)

336-2003 PRIOR TO DRILLING