

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

API NUMBER: 071 24813

Approval Date: 10/03/2014
Expiration Date: 04/03/2015

Straight Hole Oil & Gas

PERMIT TO DRILL

WELL LOCATION: Sec: 33 Twp: 26N Rge: 1E County: KAY
SPOT LOCATION: SE SW NW NW FEET FROM QUARTER: FROM SOUTH FROM WEST
SECTION LINES: 1456 475

Lease Name: DETTEN Well No: 33-3 Well will be 475 feet from nearest unit or lease boundary.

Operator Name: INTERNATIONAL ENERGY CORPORATION Telephone: 9187437300; 9187437 OTC/OCC Number: 22390 0

INTERNATIONAL ENERGY CORPORATION
1801 E 71ST ST
TULSA, OK 74136-3922

MARK T. DETTEN, TRUSTEE
77 STONEBRIDGE RD.
PONCA CITY OK 74604

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

	Name	Depth	Name	Depth
1	LAYTON	3092	6	
2	CLEVELAND	3460	7	
3	MISSISSIPPIAN	4100	8	
4	WOODFORD	4503	9	
5	WILCOX	4658	10	

Spacing Orders: No Spacing

Location Exception Orders:

Increased Density Orders:

Pending CD Numbers:

Special Orders:

Total Depth: 4800 Ground Elevation: 960 **Surface Casing: 250** Depth to base of Treatable Water-Bearing FM: 190

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: WELLINGTON

Approved Method for disposal of Drilling Fluids:

D. One time land application -- (REQUIRES PERMIT) PERMIT NO: 14-28526
H. CLOSED SYSTEM=STEEL PITS PER OPERATOR REQUEST, 20-MIL LINED TRENCH
PIT FOR SOIL FARMING

Notes:

This permit does not transfer 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.

Category	Description
FRAC FOCUS	9/30/2014 - G71 - 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	10/3/2014 - G75 - FORMATIONS UNSPACED; 160-ACRE LEASE (NW4)
SURFACE CASING	9/30/2014 - G71 - MIN. 250' PER ORDER # 240901

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