

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

API NUMBER: 073 24784 E

Approval Date: 06/26/2012
Expiration Date: 06/26/2013

Straight Hole Oil & Gas

Amend reason: OCC CORRECTION TO AMEND LOCATION

AMEND PERMIT TO DRILL

WELL LOCATION: Sec: 14 Twp: 18N Rge: 5W

County: KINGFISHER

SPOT LOCATION: C NW NW

FEET FROM QUARTER: FROM SOUTH FROM WEST

SECTION LINES: 1980 660

Lease Name: OLTMANNS

Well No: 2-14

Well will be 660 feet from nearest unit or lease boundary.

Operator Name: ARROWHEAD ENERGY INC

Telephone: 4058485777

OTC/OCC Number: 10239 0

ARROWHEAD ENERGY INC
2934 NW 156TH ST
EDMOND, OK 73013-2102

ALICE EILEEN OLTMANNS
13020 BURLINGAME AVE.
OKC OK 73120

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

	Name	Depth		Name	Depth
1	LAYTON	5200	6	WOODFORD	6550
2	CLEVELAND	5500	7	HUNTON	6680
3	OSWEGO	5650	8	VIOLA	6750
4	RED FORK	5950	9	1ST WILCOX	7025
5	MISSISSIPPI LIME	6000	10	2ND WILCOX	7075

Spacing Orders: 211495
44960
45460
62761

Location Exception Orders: 602012

Increased Density Orders:

Pending CD Numbers:

Special Orders:

Total Depth: 7250

Ground Elevation: 1047

Surface Casing: 540

Depth to base of Treatable Water-Bearing FM: 170

Under Federal Jurisdiction: No

Fresh Water Supply Well Drilled: No

Surface Water used to Drill: Yes

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 not located in a Hydrologically Sensitive Area.

Category of Pit: 2

Liner not required for Category: 2

Pit Location is NON HSA

Pit Location Formation: Fairmont

Approved Method for disposal of Drilling Fluids:

A. Evaporation/dewater and backfilling of reserve pit.

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

PERMIT NO: 13-22384

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.

Category	Description
DEEP SURFACE CASING	5/24/2012 - G71 - APPROVED
LOCATION EXCEPTION - 602012	2/20/2013 - G30 - W2 NW4 14-18N-5W X211495 LYTN, CLVD, RDFK, HNTN, VIOL, WLCX1, WLCX2 X45460 OSWG X62761 MSSLM 660 FNL, 660 FWL NO OP. NAMED 9/13/12
SPACING	12/20/2012 - G30 - WDFD UNSPACED, 160 ACRE LEASE (NW4)
SPACING - 211495	5/25/2012 - G30 - (80) N2 14-18N-5W SU NE/SW EXT 194750/73433/171133 CLVD, HNTN, VIOL, WLCX1, WLCX2 EST LYTN, RDFK
SPACING - 44960	12/20/2012 - G30 - (80) W2 14-18N-5W SU NE/SW EXT 44233 MRMC
SPACING - 45460	12/20/2012 - G30 - (80) 14-18N-5W SU NE/SW EXT 40457/42086 OSWG
SPACING - 62761	12/20/2012 - G30 - (80) 14-18N-5W AMEND PREVIOUS ORDERS TO SHOW MRMC IS MSSLM