

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

API NUMBER: 051 24452

Approval Date: 08/23/2018

Expiration Date: 02/23/2019

Horizontal Hole Oil & Gas

PERMIT TO DRILL

WELL LOCATION: Sec: 27 Twp: 6N Rge: 6W

County: GRADY

SPOT LOCATION: ☐ NE ☐ NE ☐ NW ☐ NE

FEET FROM QUARTER: FROM NORTH FROM EAST

SECTION LINES: 220 1560

Lease Name: ADAMS 27-34

Well No: 5MXH

Well will be 220 feet from nearest unit or lease boundary.

Operator Name: APACHE CORPORATION

Telephone: 7132966000; 9184914

OTC/OCC Number: 6778 0

APACHE CORPORATION
2000 POST OAK BLVD STE 100
HOUSTON, TX 77056-4700

ADAMS ALFALFA FARMS, INC
C/O DALE ADAMS
1222 COUNTY ROAD 1420
NINNEKAH OK 73067

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

Name	Depth	Name	Depth
1	MISSISSIPPIAN	14011	6
2			7
3			8
4			9
5			10

Spacing Orders: 666457
669414

Location Exception Orders:

Increased Density Orders:

Pending CD Numbers: 201805827
201805826

Special Orders:

Total Depth: 25000

Ground Elevation: 1043

Surface Casing: 1500

Depth to base of Treatable Water-Bearing FM: 500

Under Federal Jurisdiction: No

Fresh Water Supply Well Drilled: No

Surface Water used to Drill: No

PIT 1 INFORMATION

Approved Method for disposal of Drilling Fluids:

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 ALLUVIAL

Pit Location Formation: ALLUVIUM

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

PERMIT NO: 18-35145

H. SEE MEMO

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.

PIT 2 INFORMATION

Type of Pit System: CLOSED Closed System Means Steel Pits

Type of Mud System: OIL BASED

Chlorides Max: 300000 Average: 200000

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 ALLUVIAL

Pit Location Formation: ALLUVIUM

HORIZONTAL HOLE 1

Sec 34 Twp 6N Rge 6W County GRADY

Spot Location of End Point: SE SW SW SE

Feet From: SOUTH 1/4 Section Line: 150

Feet From: EAST 1/4 Section Line: 2280

Depth of Deviation: 13466

Radius of Turn: 800

Direction: 185

Total Length: 10277

Measured Total Depth: 25000

True Vertical Depth: 14710

End Point Location from Lease,
Unit, or Property Line: 150

Notes:

Category

Description

DEEP SURFACE CASING

8/20/2018 - G71 - APPROVED; NOTIFY OCC FIELD INSPECTOR IMMEDIATELY OF ANY LOSS OF CIRCULATION OR FAILURE TO CIRCULATE CEMENT TO SURFACE ON ANY CONDUCTOR OR SURFACE CASING

HYDRAULIC FRACTURING

8/20/2018 - G71 - OCC 165:10-3-10 REQUIRES:

1) PRIOR TO COMMENCEMENT OF HYDRAULIC FRACTURING OPERATIONS FOR HORIZONTAL WELLS, NOTICE GIVEN FIVE BUSINESS DAYS IN ADVANCE TO OFFSET OPERATORS WITH WELLS COMPLETED IN THE SAME COMMON SOURCE OF SUPPLY WITHIN 1/2 MILE;

2) WITH NOTICE ALSO GIVEN 48 HOURS IN ADVANCE OF HYDRAULIC FRACTURING ALL WELLS TO BOTH THE OCC CENTRAL OFFICE AND LOCAL DISTRICT OFFICES, USING THE "FRAC NOTICE FORM" FOUND AT THE FOLLOWING LINK: OCCEWEB.COM/OG/OGFORMS.HTML; AND,

3) THE CHEMICAL DISCLOSURE OF HYDRAULIC FRACTURING INGREDIENTS FOR ALL WELLS TO BE REPORTED TO FRACFOCUS WITHIN 60 DAYS AFTER THE CONCLUSION THE HYDRAULIC FRACTURING OPERATIONS, USING THE FOLLOWING LINK: FRACFOCUS.ORG

MEMO

8/20/2018 - G71 - PITS 1 & 2 - CLOSED SYSTEM=STEEL PITS PER OPERATOR REQUEST, PIT 2 - OBM RETURNED TO VENDOR, CUTTINGS PERMITTED PER DISTRICT

PENDING CD - 201805826

8/22/2018 - G57 - (E.O.) 27 & 34-6N-6W
EST MULTIUNIT HORIZONTAL WELL
X666457 MSSP 27-6N-6W
X669414 MSSP 34-6N-6W
50% 27-6N-6W
50% 34-6N-6W
APACHE CORPORATION
REC 8-13-2018 (THOMAS)

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

051 24452 ADAMS 27-34 5MXH

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
PENDING CD - 201805827	8/23/2018 - G57 - (E.O.) 27 & 34-6N-6W X666457 MSSP 27-6N-6W X669414 MSSP 34-6N-6W SHL (27-6N-6W) NCT 200' FNL, NCT 1560' FEL COMPL. INT. (27-6N-6W) NCT 150' FNL, NCT 0' FSL, NCT 660' FEL COMPL. INT. (34-6N-6W) NCT 0' FNL, NCT 150' FSL, NCT 660' FEL APACHE CORPORATION REC 8-13-2018 (THOMAS)
SPACING - 666457	8/22/2018 - G57 - (640)(HOR) 27-6N-6W EST MSSP, OTHERS POE TO BHL (MSSP) NLT 660' FB
SPACING - 669414	8/22/2018 - G57 - (640)(HOR) 34-6N-6W EST MSSP, OTHERS POE TO BHL (MSSP) NLT 660' FB

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.



Well Location Plat

Operator: APACHE CORPORATION
 Lease Name and No.: ADAMS 27-34-5MXH
 Surface Footage: 220' FNL - 1560' FEL GR.ELEVATION: 1043' (NAVD 88)
 Sections 27 and 34, Township 6 N, Range 6 W.I.M.
 County: Grady State: Oklahoma
 REVISION 08-14-2018
 CORRECTED REGION TO OKLAHOMA SOUTH

NOTE: X and Y data shown hereon for section Corners may NOT have been surveyed on-the-ground, and further does NOT represent a true Boundary Survey

Anti-Collision Data Shown Hereon:
 Blue Box: Found and Shot On Ground.
 Red Box: Placed by OCC Information.

0' 750' 1500' 2250'

Surface Sec.27-6N-6W.I.M
 BHL Sec. 34-6N-6W.I.M

Datum: NAD 27
 Units: US Survey Feet
 North: Gnd
 Coordinates: State Plane
 Zone: 3501
 State: Oklahoma
 Region: South

Quarter Section distance may be assumed from a Government Survey Plat or assumed at a proportionate distance from opposing section corners, or occupation thereof, and may not have been measured on-the-ground and further does not represent a true boundary survey.

Found 60D NAIL
 N= 596131
 E=2051284
 Lat: 34°58'16.740"
 Long: -97°49'43.774"
 Lat: 34.97132°
 Long: -97.82883°

CONTINENTAL RESOURCES INC
 PRIM 1-22H
 202' FSL - 1797' FEL
 OCC STATUS AC

SURFACE TO
 LANDING POINT
 N 84°39'34" W
 723'

Found 1/2" Iron Pin
 N= 596149
 E=2056564
 Lat: 34°58'16.818"
 Long: -97°48'40.325"
 Lat: 34.97134°
 Long: -97.81120°

LANDING POINT LOC.
 150' FNL - 2280' FEL

SURFACE HOLE LOC.
 220' FNL - 1560' FEL

Surface Hole Loc.
 Lat: 34°58'14.623"
 Long: -97°48'59.068"
 Lat: 34.97073°
 Long: -97.81641°
 N= 595924
 E=2055005

Found 1/2" Iron Pin
 W/MJLA 1326" Cap
 N= 590843
 E=2051289
 Lat: 34°57'24.431"
 Long: -97°49'43.822"
 Lat: 34.95673°
 Long: -97.82884°

ECHO E&P LLC
 PATTY UNIT 1
 661' FSL - 670' FWL
 OCC STATUS AC

LANDING TO
 BOTTOM HOLE
 S 00°05'04" E
 10277'

Landing Point
 Lat: 34°58'15.301"
 Long: -97°49'07.720"
 Lat: 34.97092°
 Long: -97.81881°
 N= 595991
 E=2054284

BTA OIL PRODUCERS
 7703 JV-P
 1326' FNL - 1324' FWL
 OCC STATUS AC

REBELLION ENERGY LLC
 TIA 27-6-6
 400' FNL - 440' FEL
 OCC STATUS NOT LISTED

Bottom Hole Location
 Lat: 34°56'33.647"
 Long: -97°49'07.760"
 Lat: 34.94268°
 Long: -97.81882°
 N= 585714
 E=2054300

Found Bent 1/2" Iron Pin
 N= 585555
 E=2051296
 Lat: 34°56'32.124"
 Long: -97°49'43.838"
 Lat: 34.94226°
 Long: -97.82884°

Devon Energy Production
 Joann 1-16H
 865' FSL - 1855' FWL
 OCC STATUS AC

Found 3/8" Iron Pin
 W/ TLSO 1293 CAP
 N= 590861
 E=2056575
 Lat: 34°57'24.516"
 Long: -97°48'40.315"
 Lat: 34.95681°
 Long: -97.81120°

Found 100D Nail
 N= 585572
 E=2056580
 Lat: 34°56'32.194"
 Long: -97°48'40.375"
 Lat: 34.94228°
 Long: -97.81122°

BOTTOM HOLE LOC.
 150' FSL - 2280' FEL

Survey and Plat by:
 Jividen's Land Survey Co., Inc.
 1210 19th Street / P.O. Box 943
 Woodward, Oklahoma 73801
 Ph: 580-256-7174 Fax: 1-844-273-1684
 Certificate of Authorization No. 2064
 Expires June 30, 2019
 Invoice # 20722
 Date Staked 07-19-2018 by A.L.
 Date Drawn 08-08-2018 by D.W.K.
 PAGE 1 OF 6 JOB 168-18

We do hereby certify that this survey was done in accordance to records, maps and other information as provided to us by the client herein named and that great care was taken in the actual staking of this well and the determination of any obstacles thereupon. However, the accuracy of this survey is not guaranteed and if there appears to be any discrepancy, please notify us immediately.

