

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

API NUMBER: 051 24455

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 ☐ NW

FEET FROM QUARTER: FROM NORTH FROM WEST

SECTION LINES: 205 1100

Lease Name: ADAMS 27-34

Well No: 4XH

Well will be 205 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 RD 1420  
NINNEKAH OK 73067

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

Name	Depth	Name	Depth
1 WOODFORD	14417	6	
2		7	
3		8	
4		9	
5		10	

Spacing Orders: 666457  
669414

Location Exception Orders:

Increased Density Orders:

Pending CD Numbers: 201800165  
201800166  
201800164  
201805825

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: 18-35141

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: SW SW SE SW

Feet From: SOUTH 1/4 Section Line: 150

Feet From: WEST 1/4 Section Line: 1400

Depth of Deviation: 13822

Radius of Turn: 573

Direction: 178

Total Length: 10277

Measured Total Depth: 25000

True Vertical Depth: 15020

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](http://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](http://FRACFOCUS.ORG)

MEMO

8/20/2018 - G71 - PITS 1 & 2 - CLOSED SYSTEM=STEEL PITS (REQUIRED - WASHITA RIVER), PIT 2 - OBM RETURNED TO VENDOR, CUTTINGS PERMITTED PER DISTRICT

PENDING CD - 201800164

8/22/2018 - G57 - (E.O.) 27 & 34-6N-6W  
X666457 WDFD 27-6N-6W  
X669414 WDFD 34-6N-6W  
SHL (27-6N-6W) NCT 200' FNL, NCT 1100' FWL  
COMPL. INT. (27-6N-6W) NCT 150' FNL, NCT 0' FSL, NCT 330' FWL  
COMPL. INT. (34-6N-6W) NCT 0' FNL, NCT 150' FSL, NCT 330' FWL  
NO OP. NAMED  
REC 8-13-2018 (THOMAS)

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

051 24455 ADAMS 27-34 4XH

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 - 201800165	8/22/2018 - G57 - (E.O.) 27-6N-6W X666457 WDFD 4 WELLS APACHE CORPORATION REC 8-13-2018 (THOMAS)
PENDING CD - 201800166	8/22/2018 - G57 - (E.O.) 34-6N-6W X669414 WDFD 4 WELLS APACHE CORPORATION REC 8-13-2018 (THOMAS)
PENDING CD - 201805825	8/22/2018 - G57 - (E.O.) 27 & 34-6N-6W EST MULTIUNIT HORIZONTAL WELL X666457 WDFD 27-6N-6W X669414 WDFD 34-6N-6W 50% 27-6N-6W 50% 34-6N-6W APACHE CORPORATION REC 8-13-2018 (THOMAS)
SPACING - 666457	8/22/2018 - G57 - (640)(HOR) 27-6N-6W EST WDFD, OTHERS POE TO BHL (WDFD) NCT 165' FNL & FSL, NCT 330' FEL & FWL
SPACING - 669414	8/22/2018 - G57 - (640)(HOR) 34-6N-6W EST WDFD, OTHERS POE TO BHL (WDFD) NLT 165' FNL & FSL, NLT 330' FEL & FWL

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

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# Apache Well Location Plat

Operator: APACHE CORPORATION  
 Lease Name and No.: ADAMS 27-34-4XH  
 Surface Footage: 205' FNL - 1100' FWL 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: Grid  
 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: -97.82383°

SURFACE TO  
 LANDING POINT  
 N 79°25'41" E  
 305'

SURFACE HOLE LOC.  
 205' FNL - 1100' FWL

LANDING POINT LOC.  
 150' FNL - 1400' FWL

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

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°

Surface Hole Loc.  
 Lat: 34°58'14.729"  
 Long: -97°49'30.558"  
 Lat: 34.97076°  
 Long: -97.82516°  
 N= 595930  
 E=2052384

Landing Point  
 Lat: 34°58'15.277"  
 Long: -97°49'26.953"  
 Lat: 34.97091°  
 Long: -97.82415°  
 N= 595986  
 E=2052684

Bottom Hole Location  
 Lat: 34°56'33.626"  
 Long: -97°49'27.021"  
 Lat: 34.94267°  
 Long: -97.82417°  
 N= 585709  
 E=2052696

Found 1/2" Iron Pin  
 W/MJLA 1326" Cap  
 N= 590843  
 E=2051289  
 Lat: 34°57'24.431"  
 Long: -97°49'43.822"  
 Lat: 34.95679°  
 Long: -97.82884°

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

LANDING TO  
 BOTTOM HOLE  
 S 00°04'06" E  
 10277'

STA 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

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 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°

BOTTOM HOLE LOC.  
 150' FSL - 1400' FWL

Devon Energy Production  
 Joann 1-18H  
 865' FSL - 1965' FWL  
 OCC STATUS AC

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

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 # 20721  
 Date Staked 07-19-2018 by A.L.  
 Date Drawn 08-08-2018 by D.W.K.  
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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.

