

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

API NUMBER: 129 23941

Approval Date: 04/17/2014
Expiration Date: 10/17/2014

Horizontal Hole Oil & Gas

PERMIT TO DRILL

WELL LOCATION: Sec: 17 Twp: 14N Rge: 24W County: ROGER MILLS
SPOT LOCATION: NW SE SE SE FEET FROM QUARTER: FROM SOUTH FROM EAST
SECTION LINES: 375 570

Lease Name: SHIRLEY 17-14-24 Well No: 1H Well will be 375 feet from nearest unit or lease boundary.
Operator Name: APACHE CORPORATION Telephone: 9184914900; 9184914 OTC/OCC Number: 6778 0

APACHE CORPORATION
6120 S YALE AVE STE 1500
TULSA, OK 74136-4224

W & S TURLEY & SHIRLEY TURLEY
8468 N. 1750 RD.
DURHAM OK 73642

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

Name	Depth	Name	Depth
1 MARMATON	10552	6	
2		7	
3		8	
4		9	
5		10	

Spacing Orders: 128051

Location Exception Orders:

Increased Density Orders:

Pending CD Numbers: 201402378
201402645

Special Orders:

Total Depth: 15700

Ground Elevation: 2033

Surface Casing: 1450

Depth to base of Treatable Water-Bearing FM: 480

Under Federal Jurisdiction: No

Fresh Water Supply Well Drilled: No

Surface Water used to Drill: No

PIT 1 INFORMATION

Type of Pit System: ON SITE

Type of Mud System: WATER BASED

Chlorides Max: 200000 Average: 5000

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: 1A

Liner required for Category: 1A

Pit Location is ALLUVIAL

Pit Location Formation: ALLUVIUM

Approved Method for disposal of Drilling Fluids:

A. Evaporation/dewater and backfilling of reserve pit.

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

H. SEE MEMO

PERMIT NO: 14-26789

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: ON SITE
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: 3
Liner required for Category: 3
Pit Location is ALLUVIAL
Pit Location Formation: ALLUVIUM

HORIZONTAL HOLE 1

Sec 17 Twp 14N Rge 24W County ROGER MILLS
Spot Location of End Point: C N2 N2 NE
Feet From: NORTH 1/4 Section Line: 330
Feet From: EAST 1/4 Section Line: 1320
Depth of Deviation: 10558
Radius of Turn: 573
Direction: 352
Total Length: 4242
Measured Total Depth: 15700
True Vertical Depth: 11017
End Point Location from Lease,
Unit, or Property Line: 330

Notes:

Table with 2 columns: Category, Description. Rows include DEEP SURFACE CASING, MEMO, PENDING CD - 201402378, PENDING CD - 201402645, and SPACING - 128051.

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API 129-23941

API NUMBER: 000 00000

Horizontal Hole Oil & Gas

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

Approval Date:
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PERMIT TO DRILL

WELL LOCATION: Sec: 17 Twp: 14N Rge: 24W County: ROGER MILLS

SPOT LOCATION: NW SE SE S FEET FROM QUARTER SECTION SOUTH FROM EAST SECTION LINES: 375 570

Application for
Intent to Drill

Lease Name: SHIRLEY 17-14-24

Well No: 1H

Well will be 375 feet from nearest unit or lease boundary.

Operator Name: APACHE CORPORATION

Telephone: 9184914900; 9184914

OCC Number: 6778 0

APACHE CORPORATION
6120 S YALE AVE STE 1500
TULSA, OK 74136-4224

W&S TURLEY, LTD. A LIMITED PARTNERSHIP, & SHIRLEY
TURLEY GST EXEMPT TRUST, OF ROGER MILLS
COUNTY
8468 N 1750 RD
DURHAM OK 73642

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

Name	Depth	Name	Depth
1 MARMATON	10552	6	
2		7	
3		8	
4		9	
5		10	

Spacing Orders: 128051-640

Location Exception Orders:

Increased Density Orders:

Pending CD Numbers: 201402378

201402645 (E.D.) Hearing 4-16-2014

Special Orders:

Total Depth: 15700

Ground Elevation: 2033

Surface Casing: 1450

Depth to base of Treatable Water-Bearing FM: 480

Deep surface casing has been approved

Under Federal Jurisdiction: No

Fresh Water Supply Well Drilled: No

Surface Water used to Drill: No

Approved Method for disposal of Drilling Fluids:

A. Evaporation/dewater and backfilling of reserve pit.

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

PERMIT NO: 14-26789

H. PITS 1 & 2 - CONCRETE LINED

per operator request;

Pit 2 - OBM to vendor, OBM cuttings per district

Pit 1 - water based
200K-5K ppm Chlorides
onsite, Alluvium, Cat. 1A

Pit 2 - Oil-based
300K-200K ppm chlorides
onsite, Alluvium, Cat. 3

TEMPORARY AUTHORIZATION
TO DRILL
Expiration Date: 4-18-2014
Signature: Virginia Fullmer
165:10-3-1-1

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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.

HORIZONTAL HOLE 1

Sec 17 Twp 14N Rge 24W County ROGER MILLS

Spot Location of End Point: ~~C-12 N2~~ NE

Feet From: NORTH 1/4 Section Line: 330

Feet From: EAST 1/4 Section Line: 1320

Depth of Deviation: 10558

Radius of Turn: 573

Direction: ~~352~~

Total Length: ~~4242~~

Measured Total Depth: 15700

True Vertical Depth: 11017

End Point Location from Lease,
Unit, or Property Line: 330

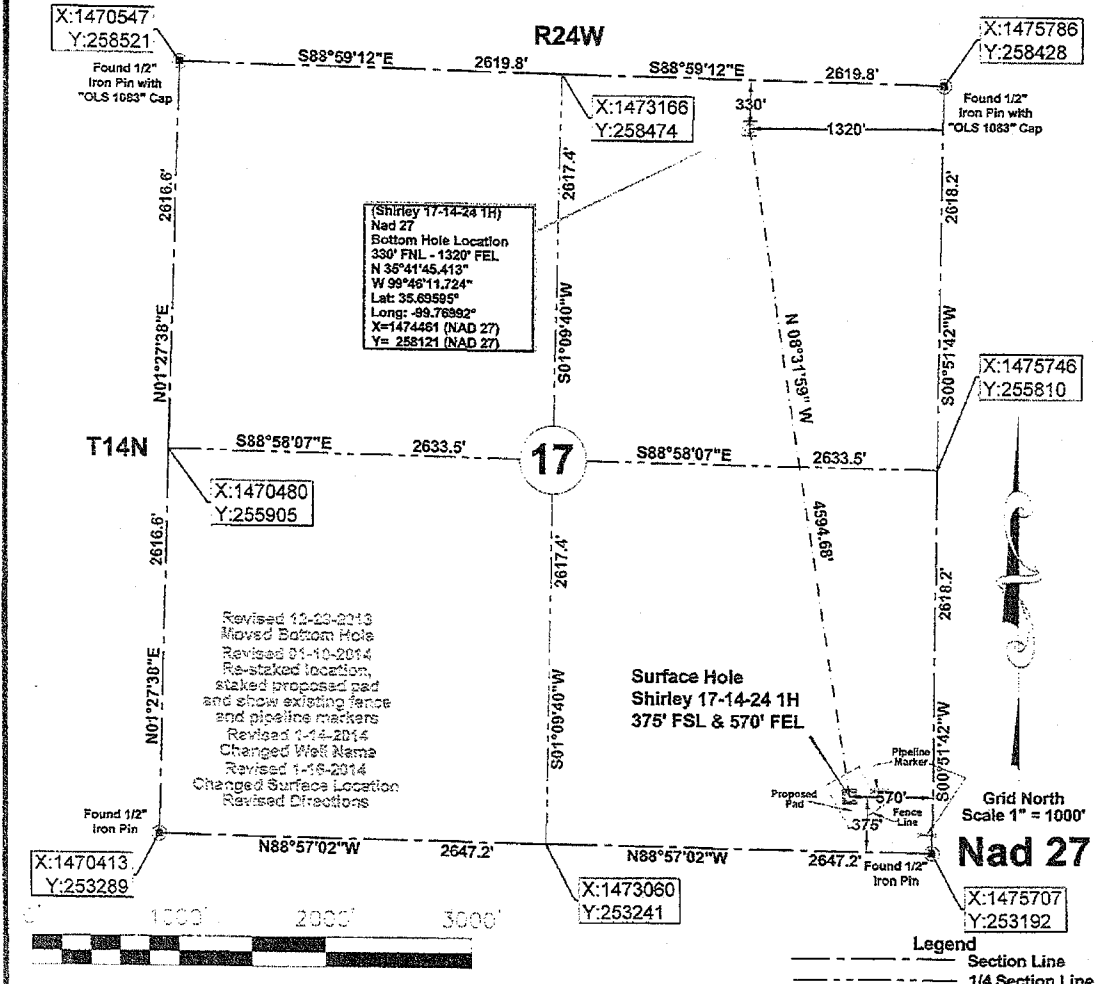
Application for Intent to Drill

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Office of the Conservation Division as to when Surface Casing will be run.

000 00000 SHIRLEY 17-14-24 1H

API 129-23941

Roger Mills County, Oklahoma.
BHL 330' FNL - 1320' FEL, Section 17, T 14 N, R 24 W.I.M.



Revised 12-20-2013
 Moved Bottom Hole
 Revised 01-10-2014
 Re-staked location,
 staked proposed pad
 and show existing fence
 and pipeline markers
 Revised 1-14-2014
 Changed Well Name
 Revised 1-18-2014
 Changed Surface Location
 Revised Directions

(Shirley 17-14-24 1H)
 Nad 27
 Bottom Hole Location
 330' FNL - 1320' FEL
 N 35°41'45.413"
 W 99°49'11.724"
 Lat: 35.69595°
 Long: -99.76992°
 X=1474461 (NAD 27)
 Y= 258121 (NAD 27)

Surface Hole
 Shirley 17-14-24 1H
 375' FSL & 570' FEL

BOTTOM HOLE INFORMATION PROVIDED BY OPERATOR LISTED, NOT SURVEYED.
 CORNER COORDINATES ARE TAKEN FROM POINTS SURVEYED IN THE FIELD.

OPERATOR: Apache Corporation WELL NO.: 1H
 LEASE NAME: Shirley 17-14-24

ELEVATION:
 2033' Gr. at stake

TOPOGRAPHY & VEGETATION: Level to slope grass pasture.

GOOD DRILL SITE: Yes REFERENCE STAKES OR ALTERNATE LOCATION STAKES SET: None

BEST ACCESSIBILITY TO LOCATION: From the south
 DISTANCE & DIRECTION
 FROM HWY JCT OR TOWN: From Cheyenne, Oklahoma, west on said Hwy 47 4.1 mi., north on Co. Rd. N1820 4.3 mi., continue onto Co. Rd. E0930 west 0.4 mi., north on Co. Rd. N1810 1.2 mi., north 375 feet to location stake.

48 HOURS BEFORE YOU DIG...
 CALL ONE
 1-800-622-6543

OKLAHOMA ONE-CALL SYSTEM
 Buried utilities are not necessarily shown. It is the contractor's responsibility to locate and preserve all utility services.
 Contractor is responsible for contacting all utility companies prior to construction.

REVISION: _____ DATE OF DRAWING: December 6, 2012
 INVOICE #: 17651 DATE STAKED: November 29, 2012

STAKED SURFACE HOLE
 DATUM: Nad 27
 N: 35°41'00.605"
 W: 99°48'02.457"
 LAT: 35.68350°
 LONG: -99.76735°
 STATE PLANE
 COORDINATES: (US FEET)
 ZONE: OK North
 X: 1475143
 Y: 253577

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.

Survey is valid only if print has original seal and signature of surveyor present

JVIDENS LAND SURVEY CO., INC. 1210 19TH STREET / P.O. BOX 943 WOODWARD, OKLAHOMA 73802 Phone 580-256-7174 - Fax 580-256-3424 roger@jvidenslandsurvey.com mike@jvidenslandsurvey.com	Survey For: Apache Corporation 6120 South Yale Avenue, Ste. 1500 Tulsa, Oklahoma 74136	JOB 713-12	DATE OF PLAT 12-06-2012	SCALE 1"=1000'	SHEET 1 OF 4
	DRAWN BY R.D.J.	OKLA. CA #2064, EXP. 06/30/2013 KANSAS CA #143, EXP. 12/31/2012			