

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

API NUMBER: 011 23855

Approval Date: 09/13/2017
Expiration Date: 03/13/2018

Horizontal Hole Oil & Gas

PERMIT TO DRILL

WELL LOCATION: Sec: 20 Twp: 14N Rge: 12W County: BLAINE
SPOT LOCATION: NE SE SW SW FEET FROM QUARTER: FROM SOUTH FROM WEST
SECTION LINES: 361 1227

Lease Name: KEVIN FIU Well No: 1-20-17XH Well will be 361 feet from nearest unit or lease boundary.
Operator Name: CONTINENTAL RESOURCES INC Telephone: 4052349020; 4052349 OTC/OCC Number: 3186 0

CONTINENTAL RESOURCES INC
PO BOX 269000
OKLAHOMA CITY, OK 73126-9000

MARY KARLENE LAUB
15640 EDMOND RD. NW
CALUMET OK 73014

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

Name	Depth	Name	Depth
1 MISSISSIPPIAN (EX CHESTER)	11617	6	
2		7	
3		8	
4		9	
5		10	

Spacing Orders: 667063

Location Exception Orders:

Increased Density Orders:

Pending CD Numbers: 201602800
201602801

Special Orders:

Total Depth: 22417 Ground Elevation: 1693 **Surface Casing: 1500** Depth to base of Treatable Water-Bearing FM: 240

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: 8000 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: C

Liner not required for Category: C

Pit Location is BED AQUIFER

Pit Location Formation: RUSH SPRINGS

D. One time land application -- (REQUIRES PERMIT) PERMIT NO: 17-33081
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 BED AQUIFER

Pit Location Formation: RUSH SPRINGS

HORIZONTAL HOLE 1

Sec 17 Twp 14N Rge 12W County BLAINE

Spot Location of End Point: NE NE NW NW

Feet From: NORTH 1/4 Section Line: 50

Feet From: WEST 1/4 Section Line: 1170

Depth of Deviation: 11984

Radius of Turn: 477

Direction: 359

Total Length: 9684

Measured Total Depth: 22417

True Vertical Depth: 12461

End Point Location from Lease,
Unit, or Property Line: 50

Notes:

Category

Description

DEEP SURFACE CASING

9/6/2017 - G71 - APPROVED; NOTIFY OCC FIELD INSPECTOR IMMEDIATELY FOR ANY LOSS OF CIRCULATION OR FAILURE TO CIRCULATE CEMENT TO SURFACE ON CONDUCTOR OR SURFACE CASING

HYDRAULIC FRACTURING

9/6/2017 - 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

INTERMEDIATE CASING

9/6/2017 - G71 - DUE TO THE KNOWN POTENTIAL RISK OF ENCOUNTERING AN OVER-PRESSURED ZONE IN THE MORROW SERIES IN THIS AREA, THE TECHNICAL MANAGER RECOMMENDS SETTING AN INTERMEDIATE STRING OF CASING IMMEDIATELY ABOVE THE MORROW SERIES

MEMO

9/6/2017 - G71 - PIT 1 & 2 - CLOSED SYSTEM=STEEL PITS PER OPERATOR REQUEST; PIT 1 – WBM & CUTTINGS TO BE SOIL FARMED; PIT 2 – OBM TO VENDOR, OBM CUTTINGS TO ORDER # 587498, 31-12N-8W, CANADIAN CO.

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
PENDING CD - 201602800	9/12/2017 - G75 - (I.O.) 20 & 17-14N-12W EST MULTIUNIT HORIZONTAL WELL X667063 MSNLC 50% 20-14N-12W 50% 17-14N-12W NO OP. NAMED REC 7-18-2017 (MCKEOWN)
PENDING CD - 201602801	9/12/2017 - G75 - (I.O.) 20 & 17-14N-12W X667063 MSNLC SHL (20-14N-12W) 200' FSL, 350' FWL ** COMPL. INT. (20-14N-12W) NCT 150' FSL, NCT 0' FNL, NCT 330' FWL COMPL. INT. (17-14N-12W) NCT 0' FSL, NCT 150' FNL, NCT 330' FWL NO OP. NAMED REC 7-18-2017 (MCKEOWN)
	** ITD HAS SHL AS 361' FSL, 1227' FWL 20-14N-12W; TO BE CORRECTED AT HEARING FOR FINAL ORDER LOCATION EXCEPTION PER OPERATOR
SPACING - 667063	9/12/2017 - G75 - (640) 20 & 17-14N-12W VAC 102663/107747 MPLM EXT OTHER EST MSNLC

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.

EXHIBIT: A (1 of 2)
 SHEET: 8.5x11
 SHL: 20-14N-12W
 BHL: 17-14N-12W



API 011-23855

COVER SHEET

CONTINENTAL RESOURCES, INC.

P.O. BOX 26900 OKLAHOMA CITY, OK 73126 * (T) 1-800-256-8955 (F) 405-234-9253

Section 20 Township 14N Range 12W I.M. Well: KEVIN FIU 1-20-17XH
 County BLAINE State OK Well: _____
 Operator CONTINENTAL RESOURCES, INC. Well: _____

NAD-83

POINT	NAME	NORTHING	EASTING	ELEVATION	LATITUDE LONGITUDE	LATITUDE LONGITUDE	DESIGN ELEVATION
W1	KEVIN 1-20-17XH	243656	1818801	1692.87	N35°40'05.82" W98°30'14.29"	N35.668283 W98.503969	361' FSL / 1227' FWL (SW/4 SEC 20) 1692.38
H.S.	HEEL SLOT	243941	1818745	--	N35°40'08.64" W98°30'14.99"	N35.669066 W98.504164	649' FSL / 1170' FWL (SW/4 SEC 20) --
B.H.L.	BOTTOM HOLE LOCATION	253759	1818780	--	N35°41'45.73" W98°30'15.18"	N35.696037 W98.504216	50' FNL / 1170' FWL (NW/4 SEC 17) --
X1	HELM-1	249882	1818921	--	N35°41'07.40" W98°30'13.23"	N35.685389 W98.503675	17-14N-12W:SW4 TD: 11,523' 1,320' FSL / 1,320' FWL --
X2	HELM-2	249228	1818259	--	N35°41'00.90" W98°30'21.21"	N35.683584 W98.505891	17-14N-12W:SW4SW4 TD: 11,400' 660' FNL / 660' FWL --
X3	HELM-3-17	250755	1819583	--	N35°41'16.07" W98°30'05.26"	N35.687798 W98.501460	17-14N-12W:S2N2NE4SW4 TD: 855' 2,200' FSL / 1,980' FWL --
X4	MCCLUNG	252485	1821559	--	N35°41'33.28" W98°29'41.41"	N35.692578 W98.484837	17-14N-12W:NE4 TD: 11,450' 1,320' FSL / 1,320' FWL --
X5	LORENE	253291	1818229	--	N35°41'41.08" W98°30'21.83"	N35.694743 W98.506064	17-14N-12W:SE4NW4NW4NW4 TD: 11,450' 521' FNL / 620' FWL --
X6	BORNEMANN-1	246821	1818244	--	N35°40'37.09" W98°30'21.25"	N35.676970 W98.505902	20-14N-12W:SW4 TD: 11,615' 1,320' FSL / 660' FWL --
X7	HELM TRUST-1-20	244623	1818129	--	N35°40'15.36" W98°30'22.50"	N35.670932 W98.506249	20-14N-12W:N2SW4NW4 TD: 11,380' 890' FSL / 660' FWL --

NAD-27

POINT	NAME	NORTHING	EASTING	ELEVATION	LATITUDE LONGITUDE	LATITUDE LONGITUDE	DESIGN ELEVATION
W1	KEVIN 1-20-17XH	243631	1850401	1692.87	N35°40'05.64" W98°30'13.03"	N35.668235 W98.503620	361' FSL / 1227' FWL (SW/4 SEC 20) 1692.38
H.S.	HEEL SLOT	243916	1850345	--	N35°40'08.47" W98°30'13.73"	N35.669018 W98.503815	649' FSL / 1170' FWL (SW/4 SEC 20) --
B.H.L.	BOTTOM HOLE LOCATION	253734	1850381	--	N35°41'45.56" W98°30'13.92"	N35.695990 W98.503866	50' FNL / 1170' FWL (NW/4 SEC 17) --
X1	HELM-1	249857	1850521	--	N35°41'07.23" W98°30'11.97"	N35.685342 W98.503325	17-14N-12W:SW4 TD: 11,523' 1,320' FSL / 1,320' FWL --
X2	HELM-2	249204	1849860	--	N35°41'00.73" W98°30'19.94"	N35.683536 W98.505540	17-14N-12W:SW4SW4 TD: 11,400' 660' FNL / 660' FWL --
X3	HELM-3-17	250731	1851184	--	N35°41'15.90" W98°30'03.99"	N35.687750 W98.501109	17-14N-12W:S2N2NE4SW4 TD: 855' 2,200' FSL / 1,980' FWL --
X4	MCCLUNG	252461	1853160	--	N35°41'33.11" W98°29'40.15"	N35.692530 W98.494486	17-14N-12W:NE4 TD: 11,450' 1,320' FSL / 1,320' FWL --
X5	LORENE	253266	1849830	--	N35°41'40.90" W98°30'20.56"	N35.694696 W98.505712	17-14N-12W:SE4NW4NW4NW4 TD: 11,450' 521' FNL / 620' FWL --
X6	BORNEMANN-1	246796	189844	--	N35°40'36.92" W98°30'19.98"	N35.676922 W98.505551	20-14N-12W:SW4 TD: 11,615' 1,320' FSL / 660' FWL --
X7	HELM TRUST-1-20	244599	1849730	--	N35°40'15.18" W98°30'21.23"	N35.670884 W98.505898	20-14N-12W:N2SW4NW4 TD: 11,380' 890' FSL / 660' FWL --

Certificate of Authorization No. 7318

Date Staked: 07/31/17
 Date Drawn: 08/01/17

Prepared By:
 Petro Land Services South
 10404 Vineyard Blvd.
 Suite G100
 Oklahoma City, OK 73120

REVISIONS				
No.	DATE	BY	DESCRIPTION	COMMENTS
00	08-01-2017	MJL	ISSUED FOR APPROVAL	--
01	08-18-2017	MJL	ADDED BIA LAND	EXHIBIT A (2 OF 2)
02	08-31-2017	MJL	REV. ACCESS & PAD DETAIL	UPDATED EXHIBITS: B, F, G, H & I

EXHIBIT: A (2 of 2)
 SHEET: 8.5x14
 SHL: 20-14N-12W
 BHL: 17-14N-12W

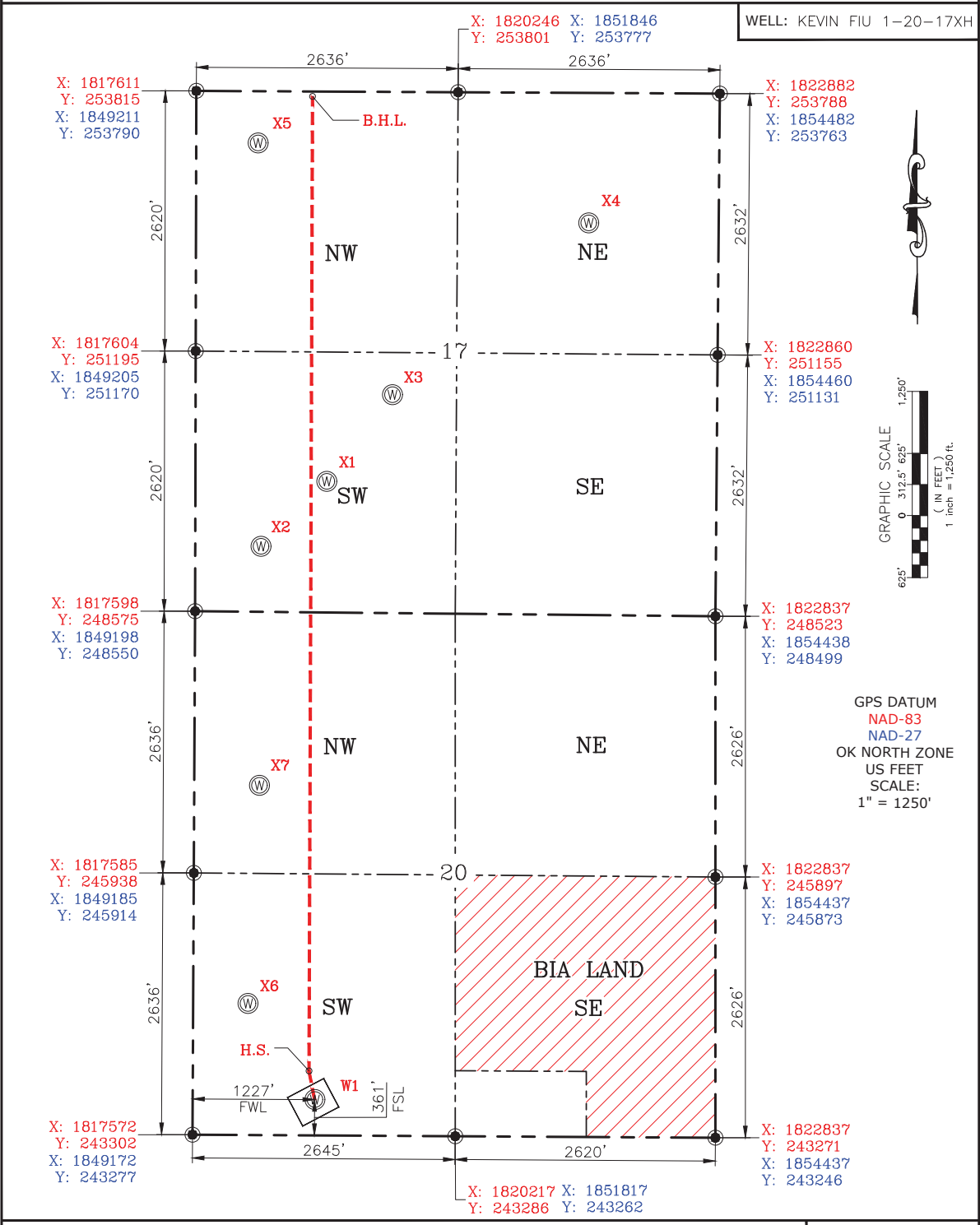
PETRO LAND SERVICES SOUTH, LLC
 10404 VINEYARD BLVD. SUITE G100, OKLA. CITY, OKLA. 73120 * OFFICE (405) 212-3108
 Certificate of Authorization No. 7318



CONTINENTAL
 RESOURCES, INC.
 (OPERATOR)

BLAINE County Oklahoma
 Section 20 Township 14N Range 12W I.M.

WELL: KEVIN FIU 1-20-17XH

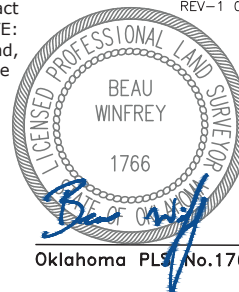


GPS DATUM
 NAD-83
 NAD-27
 OK NORTH ZONE
 US FEET
 SCALE:
 1" = 1250'

Please note that this location was staked on the ground under the supervision of a Licensed Professional Land Surveyor, but the accuracy of this survey is not guaranteed. Please contact PLS promptly if any inconsistency is determined. GPS data is observed from RTK-GPS. 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. Quarter Section distances 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.

Date Staked: 07/31/17
 Date Drawn: 08/01/17

REV-1 08-18-2017



CERTIFICATE:

I, Beau Winfrey an Oklahoma Licensed Land Surveyor and an authorized agent of Petro Land Services South, LLC, do hereby certify to the information shown herein.

Oklahoma PLS No.1766

8/31/17

DATE