API NUMBER: 011 24053

Oil & Gas

Horizontal Hole

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

Approval Date: 07/24/2018
Expiration Date: 01/24/2019

PERMIT TO DRILL

WELL LOCATION:	Sec:	21	Twp:	16N	Rge:	10W	County:	BLAI	NE
SPOT LOCATION:	SE	SE	SI	W	sw	FEET FR	OM QUARTER:	FROM	SOUTH

ATION: SE SE SW SW FEET FROM QUARTER: FROM SOUTH FROM WEST SECTION LINES: 276 1248

Lease Name: BROWNING Well No: 3-21-16XHM Well will be 276 feet from nearest unit or lease boundary.

 Operator
 CONTINENTAL RESOURCES INC
 Telephone:
 4052349020; 4052349
 OTC/OCC Number:
 3186
 0

CONTINENTAL RESOURCES INC

PO BOX 269000

OKLAHOMA CITY, OK 73126-9000

BILLY & JAN PETTY 616 FRANK DR

OKARCHE OK 73762

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

	Name	Depth	Name	Depth
1	MISSISSIPPI LIME	9925	6	
2			7	
3			8	
4			9	
5			10	
Spacing Orders:	590932 586637	Location Exception Orders:		Increased Density Orders:

Pending CD Numbers: 201805160 Special Orders:

201805162 201805163 201805164

Total Depth: 20179 Ground Elevation: 1305 Surface Casing: 1500 Depth to base of Treatable Water-Bearing FM: 40

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 D. One time land application -- (REQUIRES PERMIT)
Chlorides Max: 8000 Average: 5000 H. SEE MEMO

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: C

Liner not required for Category: CPit Location is NON HSA

Pit Location Formation: FLOWERPOT

SEE WEWO

PERMIT NO: 18-34895

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 not located in a Hydrologically Sensitive Area.

Category of Pit: C

Liner not required for Category: C
Pit Location is NON HSA

Pit Location Formation: FLOWERPOT

HORIZONTAL HOLE 1

Sec. 16 Twp 16N Rge 10W County **BLAINE** Spot Location of End Point: N2 NF NW NW Feet From: NORTH 1/4 Section Line: 50 WEST Feet From: 1/4 Section Line: 990

Depth of Deviation: 9673 Radius of Turn: 485 Direction: 357

Total Length: 9744

Measured Total Depth: 20179

True Vertical Depth: 10625

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

Notes:

Category Description

DEEP SURFACE CASING 7/10/2018 - 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 7/10/2018 - 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

INTERMEDIATE CASING 7/10/2018 - 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 7/10/2018 - G71 - PITS 1 & 2 - CLOSED SYSTEM=STEEL PITS PER OPERATOR REQUEST, PIT 2 -

OBM RETURNED TO VENDOR, CUTTINGS PERMITTED PER DISTRICT

Category Description

PENDING CD - 201805160 7/18/2018 - G60 - (I.O) 16 & 21-16N-10W

EST MULTIUNIT HORIZONTAL WELL X590932 (21-16N-10W) MSSLM X586637 (16-16N-10W) MSSLM

50% 16-16N-10W 50% 21-16N-10W

CONTINENTAL RESOURCES INC.

REC. 7/23/18 (FOREMAN)

PENDING CD - 201805162 7/18/2018 - G60 - (I.O) 16 & 21-16N-10W

X590932 (21-16N-10W) MSSLM X586637 (16-16N-10W) MSSLM

SHL 276 FSL, 1248' FWL

COMPL. INT. (21-16N-10W) NCT 150' FSL, NCT 0' FNL, NCT 660' FWL COMPL. INT. (16-16N-10W) NCT 0' FSL, NCT 150' FNL, NCT 660' FWL

CONTINENTAL RESOURCES INC.

REC. 7/23/18 (FOREMAN)

PENDING CD - 201805163 7/18/2018 - G60 - 16-16N-10W

X586637 MSSLM 2 WELLS NO OP. NAMED

REC. 7/23/18 (FOREMAN)

PENDING CD - 201805164 7/18/2018 - G60 - 21-16N-10W

X586637 MSSLM 2 WELLS NO OP. NAMED HEARING 8/6/18

SPACING - 586637 7/18/2018 - G60 - (640) 16-16N-10W

VAC OTHERS

EXT 581994/582121 MSSLM, OTHERS

EST OTHERS

SPACING - 590932 7/18/2018 - G60 - (640) 21-16N-10W

EXT 555820 MSSLM

EXHIBIT: <u>A (1 of 2)</u>

SHEET: <u>8.5x11</u>

SHL: 21-16N-10W BHL-3 16-16N-10W





COVER SHEET

CONTINENTAL RESOURCES, INC.

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

Section 21 Township 16N Range 10W I.M. Well: BROWNING 3-21-16XHM

County BLAINE State OK Well: ____

Operator _____CONTINENTAL RESOURCES, INC.

		NAD-	-83					
POINT	WELL NAME	NORTHING	EASTING	LATITUDE LONGITUDE	LATITUDE LONGITUDE		EXISTING ELEVATION	DESIGN ELEVATION
W3	BROWNING 3-21-16XHM	306562	1887312	35° 50′ 30.66″ -98° 16′ 26.13″	35.841850 -98.273924	276' FSL / 1248' FWL (SW/4 SEC 21)	1302.12	1305.32
LP-3	LANDING POINT	306564	1887053	35° 50′ 30.67" -98° 16′ 29.27"	35.841852 -98.274796	276' FSL / 990' FWL (SW/4 SEC 21)		
BHL-3	BOTTOM HOLE LOCATION	316789	1887060	35° 52′ 11.79″ -98° 16′ 29.53″	35.869941 -98.274870	50' FNL / 990' FWL (NW/4 SEC 16)		
X-1	WOODRUFF #1	312879	1890025	35° 51' 33.20" -98° 15' 53.38"	35.859223 -98.264827	16-16N-10W:SE4 TD: 10,889' 1,320' FSL / 1,320' FWL		
X-2	PETTY #1	309581	1889362	35° 51' 00.57" -98° 16' 01.32"	35.850158 -98.267033	21-16N-10W:SW4NE4 TD: 9,210' 660' FSL / 660' FWL		
X-3	PETTY #1-21	307020	1887518	35° 50′ 35.19" -98° 16′ 23.63"	35.843109 -98.273231	21-16N-10W:SW4NW4SE4SW4 TD: 9,220' 734' FSL / 1,455' FWL		
X-4	TOMS #1-21XH	306533	1886953	35° 50′ 30.36″ -98° 16′ 30.48″	35.841767 -98.275133	21-16N-10W:SW4SE4SW4SW4 TD: 20,560' 245' FSL / 890' FWL		
X-5	BROWNING #1-21-16XH	306552	1888373	35° 50′ 30.59" -98° 16′ 13.23"	35.841831 -98.270343	21-16N-10W:S2SE4SE4SW4 TD: 20,114' 270' FSL / 2,310' FWL		

NAD-27								
POINT	WELL NAME	NORTHING	EASTING	LATITUDE LONGITUDE	LATITUDE LONGITUDE		EXISTING ELEVATION	DESIGN ELEVATION
W3	BROWNING 3-21-16XHM	306539	1918912	35° 50′ 30.51″ -98° 16′ 24.89″	35.841808 -98.273580	276' FSL / 1248' FWL (SW/4 SEC 21)	1302.12	1305.32
LP-3	LANDING POINT	306540	1918653	35° 50' 30.52" -98° 16' 28.03"	35.841810 -98.274452	276' FSL / 990' FWL (SW/4 SEC 21)		
BHL-3	BOTTOM HOLE LOCATION	316765	1918660	35° 52′ 11.64″ -98° 16′ 28.29″	35.869900 -98.274525	50' FNL / 990' FWL (NW/4 SEC 16)		
X-1	WOODRUFF #1	312855	1921625	35° 51' 33.05" -98° 15' 52.14"	35.859181 -98.264483	16-16N-10W:SE4 TD: 10,889' 1,320' FSL / 1,320' FWL		
X-2	PETTY #1	309557	1920963	35° 51' 00.42" -98° 16' 00.08"	35.850116 -98.266689	21-16N-10W:SW4NE4 TD: 9,210' 660' FSL / 660' FWL		
X-3	PETTY #1-21	306996	1919118	35° 50' 35.04" -98° 16' 22.39"	35.843067 -98.272887	21-16N-10W:SW4NW4SE4SW4 TD: 9,220' 734' FSL / 1,455' FWL		
X-4	TOMS #1-21XH	306509	1918553	35° 50′ 30.21″ -98° 16′ 29.24″	35.841725 -98.274789	21-16N-10W:SW4SE4SW4SW4 TD: 20,560' 245' FSL / 890' FWL		
X-5	BROWNING #1-21-16XH	306529	1919973	35° 50' 30.44" -98° 16' 11.99"	35.841789 -98.269998	21-16N-10W:S2SE4SE4SW4 TD: 20,114' 270' FSL / 2,310' FWL		

Certificate of Authorization No. 7318

Date Staked: **-**-18 Date Drawn: 06-25-16



Prepared By: Petro Land Services South 10400 Vineyard Blvd. Suite C Oklahoma City, OK 73120

RE	REVISIONS								
No.	DATE	BY	DESCRIPTION	COMMENTS					
00	06-25-16	HDG	ISSUED FOR APPROVAL						
01	06-28-18	MJL	EXTENDED PAD SOUTH	REV. EXHIBITS: A, B, F, H & I					
02	06-29-18	MJL	ADDED BM & PHOTOS	REV. EXHIBITS: D, E, H & I					

EXHIBIT: <u>A (2 of 2)</u>

SHEET: _

SHL:

BHL-3

8.5x14

21-16N-10W

16-16N-10W

276' FSL-1248' FWL Section

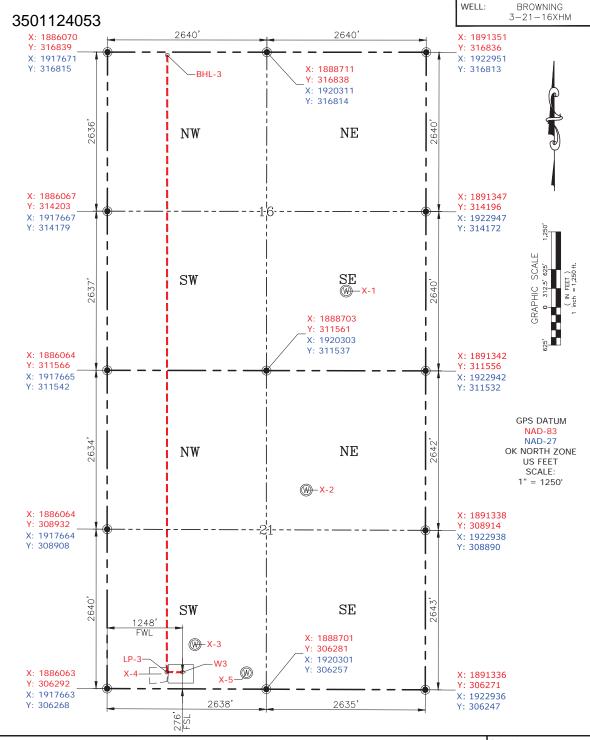
PETRO LAND SERVICES SOUTH, LLC
10400 VINEYARD BLVD. SUITE C, OKLA. CITY, OKLA. 73120 * OFFICE (405) 212-3108
Certificate of Authorization No. 7318

Continental

BLAINE _ County Oklahoma

21 Township 16N Range 10W I.M.

CONTINENTAL RESOURCES, INC (OPERATOR)



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.

CERTIFICATE:

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

Date Staked: **-**-18 Date Drawn: 06-25-16



Oklahoma PLS No.1196