

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

API NUMBER: 011 24163

Approval Date: 01/18/2019
Expiration Date: 07/18/2020

Horizontal Hole Oil & Gas
Multi Unit

PERMIT TO DRILL

WELL LOCATION: Sec: 01 Twp: 16N Rge: 13W County: BLAINE
SPOT LOCATION: NW NE NE NW FEET FROM QUARTER: FROM NORTH FROM WEST
SECTION LINES: 310 2025

Lease Name: SMOOT QUARTER FIU Well No: 3-1-12XHM Well will be 310 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 268870
OKLAHOMA CITY, OK 73126-9000

WILLIAM & VICKI LITSCH REVOCABLE TRUST
P.O. BOX 858
THOMAS OK 73669

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

	Name	Depth	Name	Depth
1	MISSISSIPPIAN	10559	6	
2			7	
3			8	
4			9	
5			10	

Spacing Orders: 656153

Location Exception Orders:

Increased Density Orders:

Pending CD Numbers: 201810298
201810299
201810300
201810302

Special Orders:

Total Depth: 20485 Ground Elevation: 1619 **Surface Casing: 1500** Depth to base of Treatable Water-Bearing FM: 110

Under Federal Jurisdiction: No Fresh Water Supply Well Drilled: No Surface Water used to Drill: Yes

PIT 1 INFORMATION

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: MARLOW

Approved Method for disposal of Drilling Fluids:

D. One time land application -- (REQUIRES PERMIT) PERMIT NO: 18-35921
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: MARLOW

HORIZONTAL HOLE 1

Sec 12 Twp 16N Rge 13W County BLAINE

Spot Location of End Point: SW SE SE SW

Feet From: SOUTH 1/4 Section Line: 50

Feet From: WEST 1/4 Section Line: 2025

Depth of Deviation: 10113

Radius of Turn: 477

Direction: 180

Total Length: 9623

Measured Total Depth: 20485

True Vertical Depth: 10559

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

Notes:

Category

Description

DEEP SURFACE CASING

12/10/2018 - 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

12/10/2018 - 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

12/10/2018 - 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

12/10/2018 - G71 - PIT 1 & 2 - CLOSED SYSTEM=STEEL PITS PER OPERATOR REQUEST; PIT 2 - OBM TO VENDOR, OBM CUTTINGS PER DISTRICT

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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.

Category	Description
PENDING CD - 201810298	12/26/2018 - G75 - (640) 12-16N-13W VAC 87122 MISS VAC 227809 CSTR VAC 585794 KDRK EXT 656153 MSSP REC 1-15-2019 (M. PORTER)
PENDING CD - 201810299	12/26/2018 - G75 - (I.O.) 1 & 12-16N-13W X656153 MSSP 1-16N-13W X201810298 MSSP 12-16N-13W SHL (1-16N-13W) 310' FNL, 2025' FWL COMPL. INT. (1-16N-13W) NCT 150' FNL, NCT 0' FSL, NCT 1320' FWL COMPL. INT. (12-16N-13W) NCT 0' FNL, NCT 150' FSL, NCT 1320' FWL CONTINENTAL RESOURCES, INC. REC 1-15-2019 (M. PORTER)
PENDING CD - 201810300	12/26/2018 - G75 - (I.O.) 1 & 12-16N-13W EST MULTIUNIT HORIZONTAL WELL X656153 MSSP 1-16N-13W X201810298 MSSP 12-16N-13W 50% 1-16N-13W 50% 12-16N-13W CONTINENTAL RESOURCES, INC. REC 1-15-2019 (M. PORTER)
PENDING CD - 201810302	12/26/2018 - G75 - 1-16N-13W X656153 MSSP 2 WELLS NO OP. NAMED REC 1-15-2019 (M. PORTER)
SPACING - 656153	12/26/2018 - G75 - (640) 1-16N-13W VAC 87122 MISS VAC 590091 CSTR, KDRK EST MSSP

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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.

EXHIBIT: A (1 of 2)
 SHEET: 8.5x11
 SHL: 1-16N-13W
 BHL-3 12-16N-13W



API 011-24163

COVER SHEET

CONTINENTAL RESOURCES, INC.

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

Section 1 Township 16N Range 13W I.M.

SMOOT QUARTER FIU
3-1-12XH

County BLAINE State OK

Well: _____

Operator CONTINENTAL RESOURCES, INC.

Well: ---

NAD-83

POINT	WELL NAME	NORTHING	EASTING	LATITUDE LONGITUDE	LATITUDE LONGITUDE		EXISTING ELEVATION	DESIGN ELEVATION
W3	SMOOT QUARTER FIU 3-1-12XH	327302	1809559	35° 53' 52.55" -98° 32' 11.90"	35.897932 -98.536639	310' FNL / 2025' FWL (NW/4 SEC 1)	1618.71'	1619.34'
LP-3	LANDING POINT	327071	1809560	35° 53' 50.28" -98° 32' 11.88"	35.897299 -98.536632	540' FNL / 2025' FWL (NW/4 SEC 1)	--	--
BHL-3	BOTTOM HOLE LOCATION	317220	1809573	35° 52' 12.86" -98° 32' 11.05"	35.870238 -98.536403	50' FSL / 2025' FWL (SW/4 SEC 12)	--	--
X-1	SMOOT QUARTER FIU #1-1H	327400	1808074	35° 53' 53.45" -98° 32' 29.96"	35.898180 -98.541656	01-16N-13W:NE4NW4NW4NW4 TD: 15,578' 220' FNL / 540' FWL	--	--
X-2	MOUDRY #1-12	320483	1811505	35° 52' 45.23" -98° 31' 47.80"	35.879231 -98.529945	12-16N-13W:S2NE4 TD: 9,797' 660' FSL OF 1/4 SEC. / 1,320' FWL OF 1/4 SEC.	--	--
X-3	ELLEN #1-12	317842	1811497	35° 52' 19.11" -98° 31' 47.72"	35.871975 -98.529922	12-16N-13W:S2SE4 TD: 9,950' 660' FSL / 1,320' FWL OF 1/4 SEC.	--	--
X-4	BROWN FAMILY #1-13-24XH	317528	1812403	35° 52' 16.05" -98° 31' 36.68"	35.871124 -98.526857	12-16N-13W:NW4SE4SE4SE4 TD: 21,006' 340' FSL / 400' FEL	--	--

NAD-27

POINT	WELL NAME	NORTHING	EASTING	LATITUDE LONGITUDE	LATITUDE LONGITUDE		EXISTING ELEVATION	DESIGN ELEVATION
W3	SMOOT QUARTER FIU 3-1-12XH	327277	1841161	35° 53' 52.40" -98° 32' 10.62"	35.897889 -98.536283	310' FNL / 2025' FWL (NW/4 SEC 1)	1618.71'	1619.34'
LP-3	LANDING POINT	327047	1841162	35° 53' 50.12" -98° 32' 10.59"	35.897257 -98.536275	540' FNL / 2025' FWL (NW/4 SEC 1)	--	--
BHL-3	BOTTOM HOLE LOCATION	317195	1841175	35° 52' 12.70" -98° 32' 09.77"	35.870194 -98.536047	50' FSL / 2025' FWL (SW/4 SEC 12)	--	--
X-1	SMOOT QUARTER FIU #1-1H	327375	1839675	35° 53' 53.29" -98° 32' 28.68"	35.898137 -98.541299	01-16N-13W:NE4NW4NW4NW4 TD: 15,578' 220' FNL / 540' FWL	--	--
X-2	MOUDRY #1-12	320459	1843106	35° 52' 45.08" -98° 31' 46.52"	35.879188 -98.529589	12-16N-13W:S2NE4 TD: 9,797' 660' FSL OF 1/4 SEC. / 1,320' FWL OF 1/4 SEC.	--	--
X-3	ELLEN #1-12	317817	1843099	35° 52' 18.95" -98° 31' 46.44"	35.871931 -98.529567	12-16N-13W:S2SE4 TD: 9,950' 660' FSL / 1,320' FWL OF 1/4 SEC.	--	--
X-4	BROWN FAMILY #1-13-24XH	317503	1844005	35° 52' 15.89" -98° 31' 35.40"	35.871081 -98.526501	12-16N-13W:NW4SE4SE4SE4 TD: 21,006' 340' FSL / 400' FEL	--	--

Certificate of Authorization No. 7318

Date Staked: 11-08-18
Date Drawn: 11-02-18



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

REVISIONS

No.	DATE	BY	DESCRIPTION	COMMENTS
00	11-02-18	TJW	ISSUED FOR APPROVAL	--

EXHIBIT: A (2 of 2)
 SHEET: 8.5x14
 SHL: 1-16N-13W
 BHL-3: 12-16N-13W

PETRO LAND SERVICES SOUTH, LLC

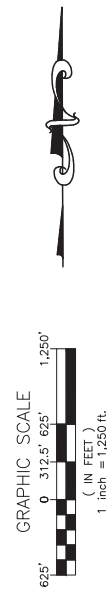
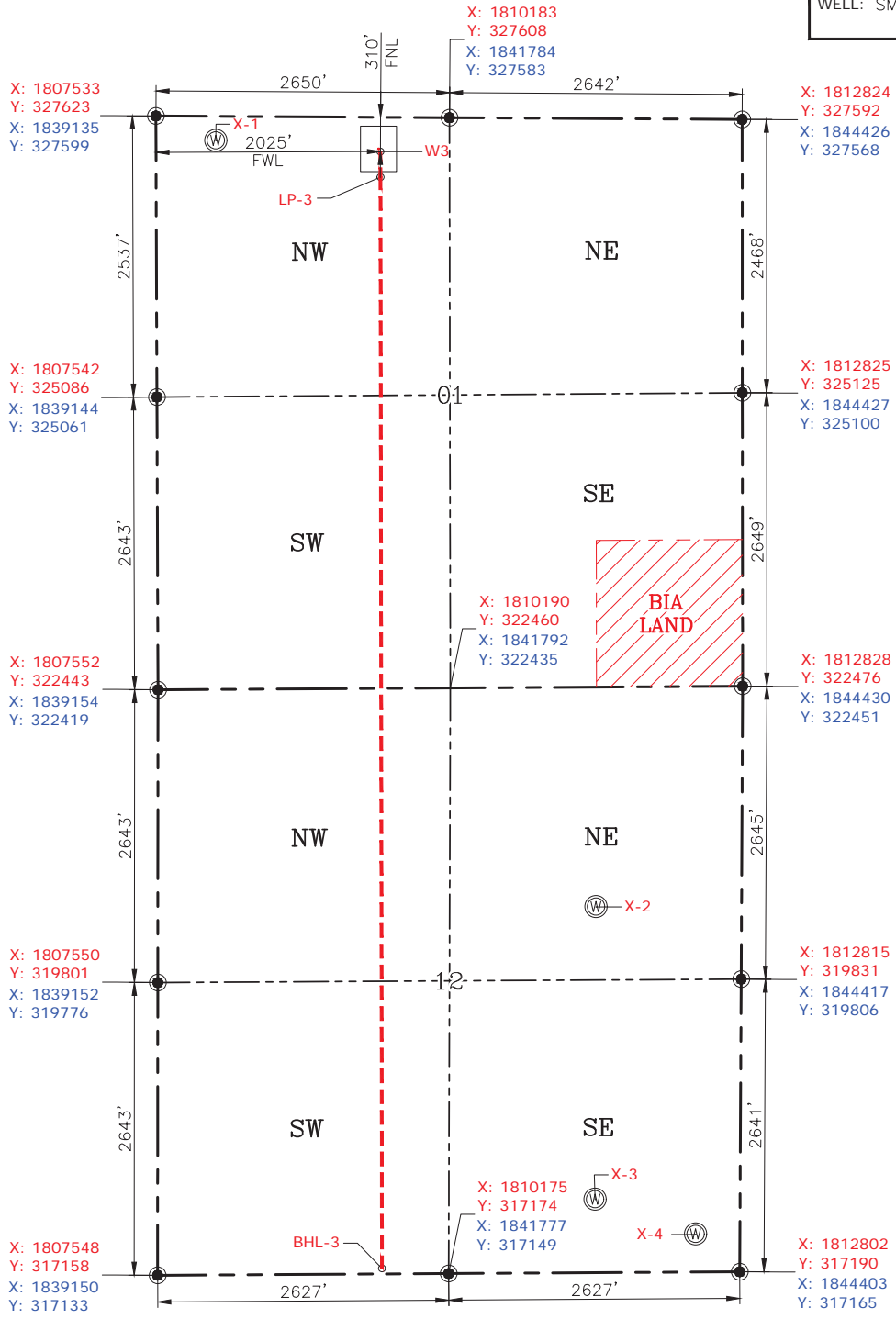
10400 VINEYARD BLVD, SUITE C, OKLA. CITY, OKLA. 73120 * OFFICE (405) 212-3108
 Certificate of Authorization No. 7318



CONTINENTAL
 RESOURCES, INC
 (OPERATOR)

BLAINE _____ County Oklahoma
 310' FNL-2025' FWL Section 1 Township 16N Range 13W I.M.

WELL: SMOOT QUARTER FIU
 3-1-12XH



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

CURRENT REV.: 0
 Date Drawn: 11-02-18

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.

Randall J. Bilyeu
 Oklahoma PLS No.1196 DATE