

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

API NUMBER: 049 25187

Approval Date: 02/08/2018

Expiration Date: 08/08/2018

Horizontal Hole Oil & Gas

PERMIT TO DRILL

WELL LOCATION: Sec: 31 Twp: 3N Rge: 4W

County: GARVIN

SPOT LOCATION:

FEET FROM QUARTER: FROM NORTH FROM WEST

SECTION LINES: 315 1980

Lease Name: LYLE

Well No: 4-30-19XHS

Well will be 315 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

LYLE LAND & CATTLE COMPANY, LLC
1308 CHAIN BRIDGE COURT
EDMOND OK 73034

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

	Name	Depth	Name	Depth
1	SPRINGER	11841	6	
2			7	
3			8	
4			9	
5			10	

Spacing Orders: 131585

Location Exception Orders:

Increased Density Orders:

Pending CD Numbers: 201708698
201708697
201708692
201708691

Special Orders:

Total Depth: 23526

Ground Elevation: 1067

Surface Casing: 1500

Depth to base of Treatable Water-Bearing FM: 180

Under Federal Jurisdiction: No

Fresh Water Supply Well Drilled: No

Surface Water used to Drill: Yes

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: 3000 Average: 2000

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)
H. SEE MEMO

PERMIT NO: 18-33701

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 19 Twp 3N Rge 4W County GARVIN

Spot Location of End Point: N2 N2 NE NW

Feet From: NORTH 1/4 Section Line: 50

Feet From: WEST 1/4 Section Line: 1980

Depth of Deviation: 12913

Radius of Turn: 382

Direction: 360

Total Length: 10012

Measured Total Depth: 23526

True Vertical Depth: 13061

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

Notes:

Category

Description

DEEP SURFACE CASING

1/23/2018 - 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

1/23/2018 - 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

MEMO

1/23/2018 - G71 - PITS 1 & 2 - CLOSED SYSTEM=STEEL PITS (REQUIRED - RUSH CREEK), PIT 2 - OBM RETURNED TO VENDOR, CUTTINGS PERMITTED PER DISTRICT

PENDING CD - 201708691

1/31/2018 - G57 - (I.O.) 19-3N-4W
X131585 SPRG
5 WELLS
NO OP. NAMED
REC 1-16-2018 (MUR)

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.

049 25187 LYLE 4-30-19XHS

Category	Description
PENDING CD - 201708692	1/31/2018 - G57 - (I.O.) 30-3N-4W X131585 SPRG 5 WELLS NO OP. NAMED REC 1-16-2018 (MUR)
PENDING CD - 201708697	1/31/2018 - G57 - (I.O.) 30 & 19-3N-4W EST MULTIUNIT HORIZONTAL WELL X131585 SPRG 50% 30-3N-4W 50% 19-3N-4W CONTINENTAL RESOURCES, INC. REC 2-6-2018 (JACKSON)
PENDING CD - 201708698	1/31/2018 - G57 - (I.O.) 30 & 19-3N-4W X131585 SPRG X165:10-3-28(C)(2)(B) MAY BE CLOSER THAN 600' FROM EXISTING WELLBORE COMPL. INT. (30-3N-4W) NCT 150' FSL, NCT 0' FNL, NCT 1320' FWL COMPL. INT. (19-3N-4W) NCT 0' FSL, NCT 150' FNL, NCT 1320' FWL NO OP. NAMED REC 2-6-2018 (JACKSON)
SPACING - 131585	1/23/2018 - G57 - (640) 30 & 19-3N-4W EST SPRG, OTHERS

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: 31-3N-4W
BHL: 19-3N-4W



API: 049 25187

COVER SHEET

CONTINENTAL RESOURCES, INC.

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

Section 31 Township 3N Range 4W I.M.

Well: LYLE 4-30-19XHS

County GARVIN State OK

Well: _____

Operator CONTINENTAL RESOURCES, INC.

Well: _____

NAD-83

POINT	WELL NAME	NORTHING	EASTING	LATITUDE LONGITUDE	LATITUDE LONGITUDE		EXISTING ELEVATION	DESIGN ELEVATION
W1	LYLE 4-30-19XHS	495721	2070142	34° 41' 42.11" -97° 39' 42.69"	34.695030 -97.661858	315' FNL / 1,980' FWL (NW/4 SEC 31)	1066.73	1066.55
LP-1	LANDING POINT	496086	2070141	34° 41' 45.72" -97° 39' 42.69"	34.696033 -97.661857	50' FSL / 1,980' FWL (SW/4 SEC 30)	--	--
BHL-1	BOTTOM HOLE LOCATION	506559	2070114	34° 43' 29.31" -97° 39' 42.59"	34.724808 -97.661829	50' FNL / 1,980' FWL (NW/4 SEC 19)	--	--
X-1	BALL 1-19H	501576	2072394	34° 42' 39.94" -97° 39' 15.47"	34.711095 -97.654297	19-3N-4W:SW4SW4SE4SE4 TD: 17,628' 250' FSL - 1,020' FEL	--	--
X-2	LYLE 1-30	498008	2070136	34° 42' 04.73" -97° 39' 42.67"	34.701314 -97.661853	30-3N-4W:N2S2NE4SW4 TD: 17,750' 1,972' FSL - 1,980' FWL	--	--
X-3	LYLE 1-30H	496236	2072368	34° 41' 47.12" -97° 39' 16.01"	34.696424 -97.654446	30-3N-4W:SW4SW4SE4SE4 TD: 19,190' 190' FSL - 1,085' FEL	--	--
X-4	KELLNER 1-19H	500884	2071918	34° 42' 33.12" -97° 39' 21.20"	34.709200 -97.655890	30-3N-4W:SE4NE4NW4NE4 TD: 20,190' 440' FNL - 1,500' FEL	--	--
X-5	RCL 1-31H	495775	2070870	34° 41' 42.61" -97° 39' 33.96"	34.695170 -97.659434	31-3N-4W:NW4NW4NW4NE4 TD: 19,670' 265' FNL - 2,585' FEL	--	--

FRANK BALL #1 19-3N-4W:SE4SE4NE4 | TD: UNKNOWN |
NO EVIDENCE OF WELL

NAD-27

POINT	WELL NAME	NORTHING	EASTING	LATITUDE LONGITUDE	LATITUDE LONGITUDE		EXISTING ELEVATION	DESIGN ELEVATION
W1	LYLE 4-30-19XHS	495679	2101737	34° 41' 41.83" -97° 39' 41.58"	34.694953 -97.661549	315' FNL / 1,980' FWL (NW/4 SEC 31)	1066.73	1066.55
LP-1	LANDING POINT	496044	2101736	34° 41' 45.44" -97° 39' 41.57"	34.695956 -97.661548	50' FSL / 1,980' FWL (SW/4 SEC 30)	--	--
BHL-1	BOTTOM HOLE LOCATION	506517	2101710	34° 43' 29.03" -97° 39' 41.47"	34.724732 -97.661520	50' FNL / 1,980' FWL (NW/4 SEC 19)	--	--
X-1	BALL 1-19H	501533	2103990	34° 42' 39.67" -97° 39' 14.36"	34.711018 -97.653988	19-3N-4W:SW4SW4SE4SE4 TD: 17,628' 250' FSL - 1,020' FEL	--	--
X-2	LYLE 1-30	497966	2101731	34° 42' 04.45" -97° 39' 41.56"	34.701237 -97.661544	30-3N-4W:N2S2NE4SW4 TD: 17,750' 1,972' FSL - 1,980' FWL	--	--
X-3	LYLE 1-30H	496194	2103963	34° 41' 46.85" -97° 39' 14.89"	34.696347 -97.654137	30-3N-4W:SW4SW4SE4SE4 TD: 19,190' 190' FSL - 1,085' FEL	--	--
X-4	KELLNER 1-19H	500842	2103514	34° 42' 32.84" -97° 39' 20.09"	34.709123 -97.655580	30-3N-4W:SE4NE4NW4NE4 TD: 20,190' 440' FNL - 1,500' FEL	--	--
X-5	RCL 1-31H	495733	2102466	34° 41' 42.33" -97° 39' 32.85"	34.695093 -97.659125	31-3N-4W:NW4NW4NW4NE4 TD: 19,670' 265' FNL - 2,585' FEL	--	--

Certificate of Authorization No. 7318

Date Staked: 12-19-17
Date Drawn: 12-19-17



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

REVISIONS

No.	DATE	BY	DESCRIPTION	COMMENTS
00	12-19-17	MJL	ISSUED FOR APPROVAL	--
01	12-20-17	MJL	REVISED LANDING POINT	EXHIBIT "A" both pages
02	01-17-18	MJL	REV. DATUM CALL-OUT	EXHIBIT A (2 OF 2), B, F, G, H, & I

EXHIBIT: A (2 of 2)

SHEET: 8.5x14

SHL: 31-3N-4W

BHL: 19-3N-4W

PETRO LAND SERVICES SOUTH, LLC

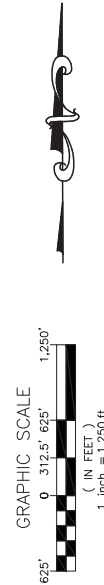
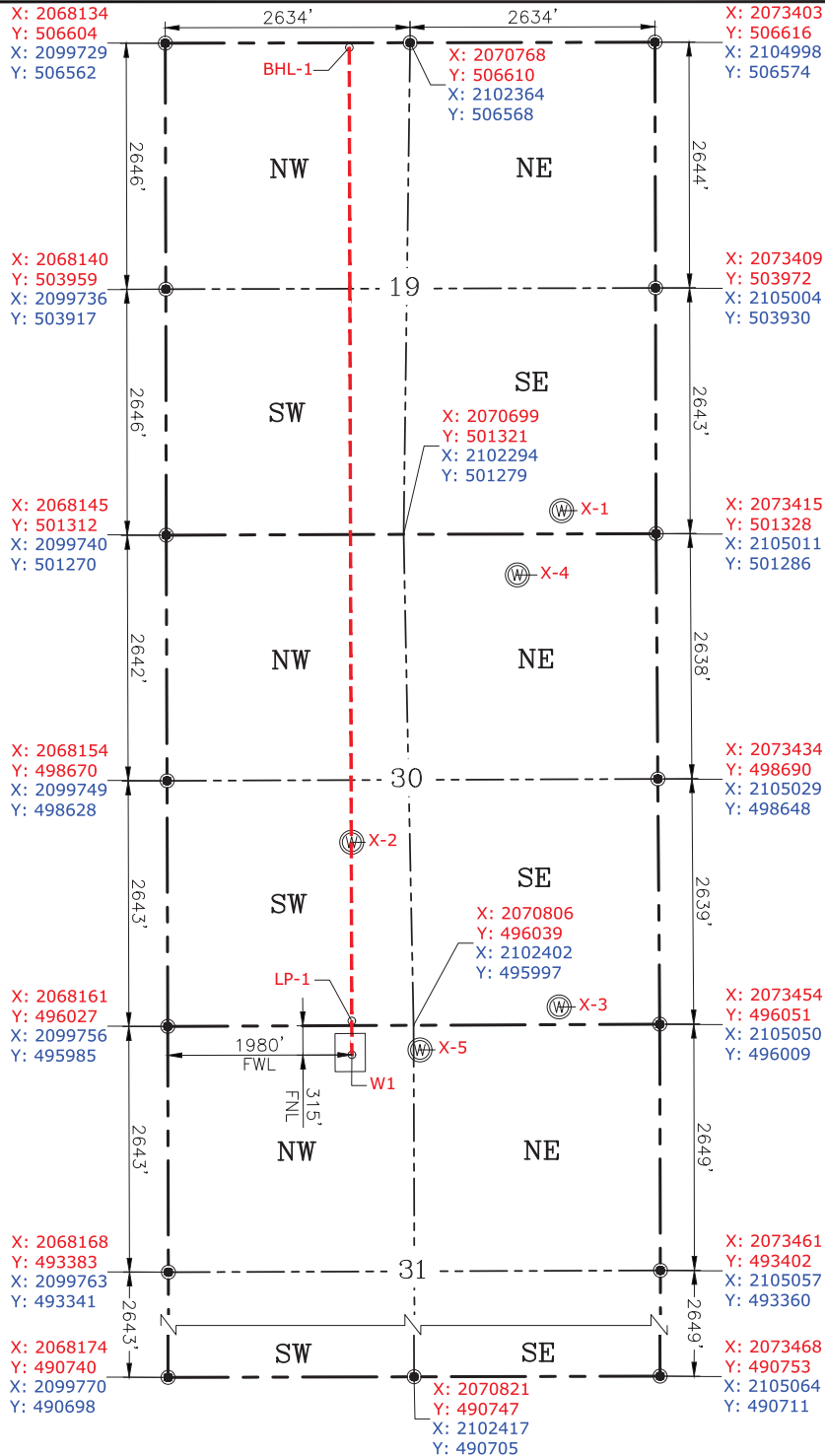
10404 VINEYARD BLVD. SUITE G100, OKLA. CITY, OKLA. 73120 * OFFICE (405) 212-3108
Certificate of Authorization No. 7318CONTINENTAL
RESOURCES, INC.
(OPERATOR)

GARVIN

County Oklahoma

315' FNL-1,980' FWL Section 31 Township 3N Range 4W I.M.

WELL: LYLE 4-30-19XHS

GPS DATUM
NAD-83
NAD-27
OK SOUTH ZONE
US FEET
SCALE:
1" = 1250'REV-1 12-20-17
REV-2 01-17-18Date Staked: 12-19-17
Date Drawn: 12-19-17

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