

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

API NUMBER: 011 24087

Approval Date: 09/13/2018

Expiration Date: 03/13/2019

Horizontal Hole Oil & Gas

PERMIT TO DRILL

WELL LOCATION: Sec: 33 Twp: 16N Rge: 13W

County: BLAINE

SPOT LOCATION:

FEET FROM QUARTER: FROM NORTH FROM WEST

SECTION LINES: 250 2360

Lease Name: LUGENE

Well No: 3-33H

Well will be 250 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

BENNY P. NEUFELD
RR 1, BOX 52
HITCHCOCK OK 73744

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

Name	Depth	Name	Depth
1 MISSISSIPPIAN	11686	6	
2		7	
3		8	
4		9	
5		10	

Spacing Orders: 669592

Location Exception Orders:

Increased Density Orders:

Pending CD Numbers: 201806765
201806763

Special Orders:

Total Depth: 16515

Ground Elevation: 1806

Surface Casing: 510

Depth to base of Treatable Water-Bearing FM: 260

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 AP/TE DEPOSIT

Pit Location Formation: TERRACE

D. One time land application -- (REQUIRES PERMIT)
H. SEE MEMO

PERMIT NO: 18-35299

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 AP/TE DEPOSIT

Pit Location Formation: TERRACE

HORIZONTAL HOLE 1

Sec 33 Twp 16N Rge 13W County BLAINE

Spot Location of End Point: S2 S2 S2 S2

Feet From: SOUTH 1/4 Section Line: 50

Feet From: WEST 1/4 Section Line: 2640

Depth of Deviation: 11302

Radius of Turn: 395

Direction: 178

Total Length: 4592

Measured Total Depth: 16515

True Vertical Depth: 11951

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

Notes:

Category

Description

HYDRAULIC FRACTURING

9/6/2018 - 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: OCCWEB.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

9/6/2018 - 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

9/6/2018 - G71 - PITS 1 & 2 - CLOSED SYSTEM=STEEL PITS PER OPERATOR REQUEST, PIT 2 - OBM RETURNED TO VENDOR, CUTTINGS PERMITTED PER DISTRICT

PENDING CD - 201806763

9/7/2018 - G57 - 33-16N-13W
X669592 MSSP
2 WELLS
NO OP. NAMED
REC 9-10-2018 (DUNN)

This permit does not address the right of entry or settlement of surface damages.

011 24087 LUGENE 3-33H

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 - 201806765	9/7/2018 - G57 - (I.O.) 33-16N-13W X669592 MSSP COMPL. INT. NCT 150' FNL, NCT 150' FSL, NCT 1320' FWL NO OP. NAMED REC 9-10-2018 (DUNN)
SPACING - 669592	9/6/2018 - G57 - (640) 33-16N-13W VAC 142349 CSTR EXT 663010 MSSP, OTHER EXT OTHER

EXHIBIT: A (1 of 2)
SHEET: 8.5x11
SHL: 33-16N-13W
BHL-3 33-16N-13W



API:011 24087

COVER SHEET

CONTINENTAL RESOURCES, INC.

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

Section 33 Township 16N Range 13W I.M.

Well: LUGENE 3-33H

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	LUGENE 3-33H	301264	1793969	35° 49' 34.16" -98° 35' 19.47"	35.826156 -98.588743	250' FNL / 2360' FWL (NW/4 SEC 33)	1809.54'	1805.62'
LP-3	LANDING POINT	301261	1794249	35° 49' 34.15" -98° 35' 16.07"	35.826153 -98.587798	250' FNL / 2640' FWL (NE/4 SEC 33)	--	--
BHL-3	BOTTOM HOLE LOCATION	296281	1794126	35° 48' 44.89" -98° 35' 17.20"	35.812471 -98.588111	50' FSL / 2640' FWL (SW/4 SEC 33)	--	--
X-1	VEATCH #1	297970	1794317	35° 49' 01.60" -98° 35' 15.00"	35.817112 -98.587500	33-16N-13W:SW4NW4SE4 TD: 10,585' 1,740' FSL / 150' FWL	--	--
X-2	WASHTA #1	297759	1792986	35° 48' 59.43" -98° 35' 31.15"	35.816510 -98.591986	33-16N-13W:SW4 TD: 10,410' 1,520' FSL / 1,470' FWL	--	--
X-3	DOBBINS #1-33	296876	1796122	35° 48' 50.90" -98° 34' 53.01"	35.814138 -98.581392	33-16N-13W:SE4SE4 TD: 10,620' 660' FSL / 1,980' FWL	--	--
X-4	LAWRENCE ICE #1-33	299514	1795525	35° 49' 16.95" -98° 35' 00.45"	35.821375 -98.583459	33-16N-13W:S2NE4 TD: 10,340' 660' FSL / 1,320' FWL	--	--
X-5	NEUFELD #1-33	300864	1792257	35° 49' 30.10" -98° 35' 40.24"	35.825028 -98.594510	33-16N-13W:NW4NW4 TD: 10,300' 1,980' FSL / 660' FWL	--	--
X-6	LUGENE #1-33XH	296483	1796532	35° 48' 47.03" -98° 34' 48.00"	35.813064 -98.579999	33-16N-13W:SE4SE4SE4SE4 TD: 16,601' 270' FSL / 315' FEL	--	--

NAD-27

POINT	WELL NAME	NORTHING	EASTING	LATITUDE LONGITUDE	LATITUDE LONGITUDE		EXISTING ELEVATION	DESIGN ELEVATION
W3	LUGENE 3-33H	301239	1825571	35° 49' 34.00" -98° 35' 18.19"	35.826110 -98.588386	250' FNL / 2360' FWL (NW/4 SEC 33)	1809.54'	1805.62'
LP-3	LANDING POINT	301236	1825851	35° 49' 33.99" -98° 35' 14.79"	35.826108 -98.587441	250' FNL / 2640' FWL (NE/4 SEC 33)	--	--
BHL-3	BOTTOM HOLE LOCATION	296256	1825728	35° 48' 44.73" -98° 35' 15.92"	35.812425 -98.587754	50' FSL / 2640' FWL (SW/4 SEC 33)	--	--
X-1	VEATCH #1	297945	1825919	35° 49' 01.44" -98° 35' 13.71"	35.817067 -98.587143	33-16N-13W:SW4NW4SE4 TD: 10,585' 1,740' FSL / 150' FWL	--	--
X-2	WASHTA #1	297733	1824588	35° 48' 59.27" -98° 35' 29.87"	35.816464 -98.591629	33-16N-13W:SW4 TD: 10,410' 1,520' FSL / 1,470' FWL	--	--
X-3	DOBBINS #1-33	296851	1827723	35° 48' 50.73" -98° 34' 51.73"	35.814092 -98.581035	33-16N-13W:SE4SE4 TD: 10,620' 660' FSL / 1,980' FWL	--	--
X-4	LAWRENCE ICE #1-33	299489	1827126	35° 49' 16.79" -98° 34' 59.17"	35.821330 -98.583103	33-16N-13W:S2NE4 TD: 10,340' 660' FSL / 1,320' FWL	--	--
X-5	NEUFELD #1-33	300839	1823858	35° 49' 29.94" -98° 35' 38.95"	35.824983 -98.594153	33-16N-13W:NW4NW4 TD: 10,300' 1,980' FSL / 660' FWL	--	--
X-6	LUGENE #1-33XH	296458	1828134	35° 48' 46.87" -98° 34' 46.71"	35.813019 -98.579643	33-16N-13W:SE4SE4SE4SE4 TD: 16,601' 270' FSL / 315' FEL	--	--

Certificate of Authorization No. 7318

Date Staked: 08-28-18
Date Drawn: 08-28-18



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

REVISIONS

No.	DATE	BY	DESCRIPTION	COMMENTS
00	08-28-18	TJW	ISSUED FOR APPROVAL	--
01	09-04-18	HDG	REVISED LOCATION	REV'D ALL SHEETS

EXHIBIT: A (2 of 2)
SHEET: 8.5x14
SHL: 33-16N-13W
BHL-3 33-16N-13W

PETRO LAND SERVICES SOUTH, LLC

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



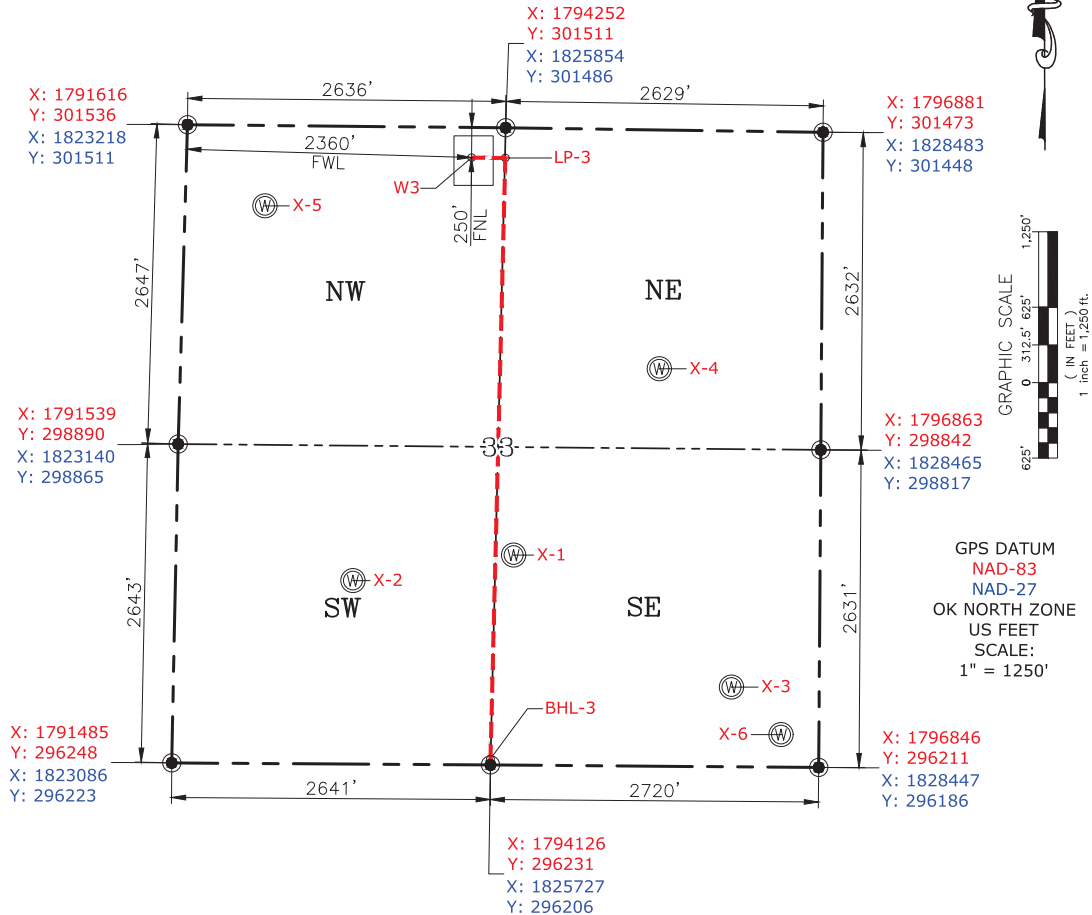
CONTINENTAL
RESOURCES, INC.
(OPERATOR)

BLAINE

County Oklahoma

250' FNL-2360' FWL Section 33 Township 16N Range 13W I.M.

WELL: LUGENE 3-33H



CURRENT REV.: 1

Date Staked: 08-28-18
Date Drawn: 08-28-18

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