

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

API NUMBER: 011 24232

Approval Date: 07/09/2019

Expiration Date: 01/09/2021

Horizontal Hole Oil & Gas

PERMIT TO DRILL

WELL LOCATION: Sec: 34 Twp: 15N Rge: 13W

County: BLAINE

SPOT LOCATION: ☐ NW ☐ SW ☐ SE ☐ SW

FEET FROM QUARTER: FROM SOUTH FROM WEST

SECTION LINES: 455 1485

Lease Name: RANDOLPH

Well No: 4-34-27XHM

Well will be 455 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

CRAIG & MARCELLA COWAN
87080 N 2500 RD
FAY OK 73646

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

Name	Depth	Name	Depth
1 MISSISSIPPIAN	11587	6	
2		7	
3		8	
4		9	
5		10	

Spacing Orders: 686029

Location Exception Orders:

Increased Density Orders:

Pending CD Numbers: 201903045
201903048

Special Orders:

Total Depth: 18831

Ground Elevation: 1667

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

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)

PERMIT NO: 19-36778

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 AP/TE DEPOSIT

Pit Location Formation: TERRACE

HORIZONTAL HOLE 1

Sec 27 Twp 15N Rge 13W County BLAINE

Spot Location of End Point: SW SW SE NW

Feet From: NORTH 1/4 Section Line: 2632

Feet From: WEST 1/4 Section Line: 1485

Depth of Deviation: 10856

Radius of Turn: 477

Direction: 360

Total Length: 7226

Measured Total Depth: 18831

True Vertical Depth: 11587

End Point Location from Lease,
Unit, or Property Line: 1485

Notes:

Category

Description

DEEP SURFACE CASING

7/1/2019 - 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

7/1/2019 - 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

7/1/2019 - 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

7/1/2019 - G71 - PITS 1 & 2 - CLOSED SYSTEM=STEEL PITS PER OPERATOR REQUEST, PIT 2 - OBM RETURNED TO VENDOR, CUTTINGS PERMITTED PER DISTRICT

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.

011 24232 RANDOLPH 4-34-27XHM

Category	Description
PENDING CD - 201903045	7/9/2019 - G58 - S2 27 & 34-15N-13W X686029 MSSP 5 WELLS NO OP. NAMED REC 6/25/2019 (MINMIER)
PENDING CD - 201903048	7/9/2019 - G58 - (I.O.) S2 27 & 34-15N-13W X686029 MSSP COMPL. INT. NCT 150' FSL, NCT 150' FNL, 1485' FWL NO OP. NAMED REC 6/25/2019 (MINMIER)
SPACING - 686029	7/9/2019 - G58 - (960)(HOR) S2 27 & 34-15N-13W EST MSSP, OTHER COMPL. INT. NLT 660' FB

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 3)
SHEET: 8.5x11
SHL: 34-15N-13W
BHL-4 27-15N-13W



COVER SHEET

CONTINENTAL RESOURCES, INC.

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

011-24232

Section 34 Township 15N Range 13W I.M.

Well: RANDOLPH 4-34-27XHM

County BLAINE State OK

Well: --

Operator CONTINENTAL RESOURCES, INC.

NAD-83

POINT	WELL NAME	NORTHING	EASTING	LATITUDE LONGITUDE	LATITUDE LONGITUDE		EXISTING ELEVATION	DESIGN ELEVATION
W4	RANDOLPH 4-34-27XHM	264952	1798137	35° 43' 35.30" -98° 34' 26.25"	35.726473 -98.573958	455' FSL / 1485' FWL (SW/4 SEC 34)	1666.64'	1667.30'
LP-4	LANDING POINT	265182	1798139	35° 43' 37.57" -98° 34' 26.24"	35.727104 -98.573956	684' FSL / 1485' FWL (SW/4 SEC 34)	--	--
BHL-4	BOTTOM HOLE LOCATION	272408	1798194	35° 44' 49.04" -98° 34' 26.10"	35.746955 -98.573916	2632' FNL / 1485' FWL (NW/4 SEC 27)	--	--
X-1	L.M. GODWIN #1	273060	1798692	35° 44' 55.52" -98° 34' 20.09"	35.748755 -98.572249	27-15N-13W: TD: 11,358' 1,976' FNL / 1,980' FWL	--	--
X-2	GODWIN #1-27	273726	1798036	35° 45' 02.06" -98° 34' 28.10"	35.750573 -98.574473	27-15N-13W: TD: 10,800' 1,316' FNL / 1,320' FWL	--	--
X-3	COWAN #1	271769	1798025	35° 44' 42.71" -98° 34' 28.10"	35.745198 -98.574472	27-15N-13W: TD: 11,086' 2,000' FSL / 1,320' FWL	--	--
X-4	DAVIS #1-27	271487	1800654	35° 44' 40.07" -98° 33' 56.19"	35.744464 -98.565608	27-15N-13W: TD: 11,050' 1,740' FSL / 1,313' FEL	--	--
X-5	FORNEY #1	273703	1800668	35° 45' 01.99" -98° 33' 56.18"	35.750553 -98.565605	27-15N-13W: TD: 11,025' 1,316' FNL / 1,314' FEL	--	--
X-6	GODWIN #27-1	273476	1799157	35° 44' 59.66" -98° 34' 14.49"	35.749905 -98.570692	27-15N-13W: TD: 10,950' 1,556' FNL / 2,442' FWL	--	--
X-7	LADYBUG 27-22-15N-13W 1HX	273032	1801729	35° 44' 55.41" -98° 33' 43.25"	35.748725 -98.562015	27-15N-13W: TD: 20,065' 1,979' FNL / 248' FEL	--	--
X-8	COWAN #1-34	266194	1797983	35° 43' 47.57" -98° 34' 28.21"	35.729881 -98.574503	34-15N-13W: TD: 11,180' 1,695' FSL / 1,320' FWL	--	--
X-9	LITSCH #1	265800	1800617	35° 43' 43.83" -98° 33' 56.23"	35.728842 -98.565620	34-15N-13W: TD: 11,180' 1,320' FSL / 1,320' FEL	--	--
X-10	COWAN #1-34	265164	1797314	35° 43' 37.34" -98° 34' 36.25"	35.727040 -98.576736	34-15N-13W: TD: 11,241' 660' FSL / 660' FWL	--	--
X-11	COWAN #1-34	268453	1798152	35° 44' 09.92" -98° 34' 26.32"	35.736090 -98.573978	34-15N-13W: TD: 11,125' 1,315' FNL / 1,470' FWL	--	--
X-12	COWAN #34-1	265544	1798657	35° 43' 41.18" -98° 34' 19.99"	35.728107 -98.572218	34-15N-13W: TD: 11,255' 1,050' FSL / 2,000' FWL	--	--
X-13	RANDOLPH #1-34-27XHM	264753	1801703	35° 43' 33.53" -98° 33' 42.99"	35.725982 -98.561943	34-15N-13W: TD: 19,839' 280' FSL / 230' FEL	--	--
X-14	L.M. GODWIN #1	267779	1799971	35° 44' 03.36" -98° 34' 04.21"	35.734267 -98.567835	34-15N-13W: TD: 11,156' 1,974' FNL / 1,975' FEL	--	--

Certificate of Authorization No. 7318

Date Staked: **--**--19
Date Drawn: 06-07-19



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

REVISIONS

No.	DATE	BY	DESCRIPTION	COMMENTS
00	06-07-19	TJW	ISSUED FOR APPROVAL	--

EXHIBIT: A (2 of 3)
 SHEET: 8.5x11
 SHL: 34-15N-13W
 BHL-4 27-15N-13W



COVER SHEET CONTINUED...

CONTINENTAL RESOURCES, INC.

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

Section 34 Township 15N Range 13W I.M. Well: RANDOLPH 4-34-27XHM
 County BLAINE State OK Well: --
 Operator CONTINENTAL RESOURCES, INC.

NAD-27							EXISTING ELEVATION	DESIGN ELEVATION
POINT	WELL NAME	NORTHING	EASTING	LATITUDE LONGITUDE	LATITUDE LONGITUDE			
W4	RANDOLPH 4-34-27XHM	264927	1829738	35° 43' 35.13" -98° 34' 24.98"	35.726425 -98.573605	455' FSL / 1485' FWL (SW/4 SEC 34)	1666.64'	1667.30'
LP-4	LANDING POINT	265157	1829740	35° 43' 37.40" -98° 34' 24.97"	35.727056 -98.573603	684' FSL / 1485' FWL (SW/4 SEC 34)	--	--
BHL-4	BOTTOM HOLE LOCATION	272383	1829795	35° 44' 48.87" -98° 34' 24.82"	35.746908 -98.573562	2632' FNL / 1485' FWL (NW/4 SEC 27)	--	--
X-1	L.M. GODWIN #1	273035	1830294	35° 44' 55.35" -98° 34' 18.82"	35.748708 -98.571894	27-15N-13W: TD: 11,358' 1,976' FNL / 1,980' FWL	--	--
X-2	GODWIN #1-27	273701	1829637	35° 45' 01.89" -98° 34' 26.83"	35.750526 -98.574118	27-15N-13W: TD: 10,800' 1,316' FNL / 1,320' FWL	--	--
X-3	COWAN #1	271744	1829626	35° 44' 42.54" -98° 34' 26.82"	35.745151 -98.574118	27-15N-13W: TD: 11,086' 2,000' FSL / 1,320' FWL	--	--
X-4	DAVIS #1-27	271462	1832255	35° 44' 39.90" -98° 33' 54.91"	35.744417 -98.565254	27-15N-13W: TD: 11,050' 1,740' FSL / 1,313' FEL	--	--
X-5	FORNEY #1	273678	1832269	35° 45' 01.82" -98° 33' 54.90"	35.750506 -98.565251	27-15N-13W: TD: 11,025' 1,316' FNL / 1,314' FEL	--	--
X-6	GODWIN #27-1	273451	1830758	35° 44' 59.49" -98° 34' 13.21"	35.749858 -98.570337	27-15N-13W: TD: 10,950' 1,556' FNL / 2,442' FWL	--	--
X-7	LADYBUG 27-22-15N-13W 1HX	273007	1833330	35° 44' 55.24" -98° 33' 41.98"	35.748678 -98.561661	27-15N-13W: TD: 20,065' 1,979' FNL / 248' FEL	--	--
X-8	COWAN #1-34	266169	1829584	35° 43' 47.40" -98° 34' 26.94"	35.729833 -98.574149	34-15N-13W: TD: 11,180' 1,695' FSL / 1,320' FWL	--	--
X-9	LITSCH #1	265775	1832218	35° 43' 43.66" -98° 33' 54.96"	35.728795 -98.565266	34-15N-13W: TD: 11,180' 1,320' FSL / 1,320' FEL	--	--
X-10	COWAN #1-34	265139	1828915	35° 43' 37.17" -98° 34' 34.98"	35.726992 -98.576382	34-15N-13W: TD: 11,241' 660' FSL / 660' FWL	--	--
X-11	COWAN #1-34	268428	1829753	35° 44' 09.75" -98° 34' 25.04"	35.736042 -98.573623	34-15N-13W: TD: 11,125' 1,315' FNL / 1,470' FWL	--	--
X-12	COWAN #34-1	265519	1830258	35° 43' 41.01" -98° 34' 18.71"	35.728059 -98.571864	34-15N-13W: TD: 11,255' 1,050' FSL / 2,000' FWL	--	--
X-13	RANDOLPH #1-34-27XHM	264728	1833303	35° 43' 33.36" -98° 33' 41.72"	35.725934 -98.561589	34-15N-13W: TD: 19,839' 280' FSL / 230' FEL	--	--
X-14	L.M. GODWIN #1	267754	1831572	35° 44' 03.19" -98° 34' 02.93"	35.734219 -98.567481	34-15N-13W: TD: 11,156' 1,974' FNL / 1,975' FEL	--	--

Certificate of Authorization No. 7318

Date Staked: **--**--19
 Date Drawn: 06-07-19



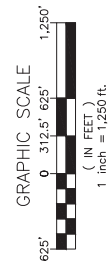
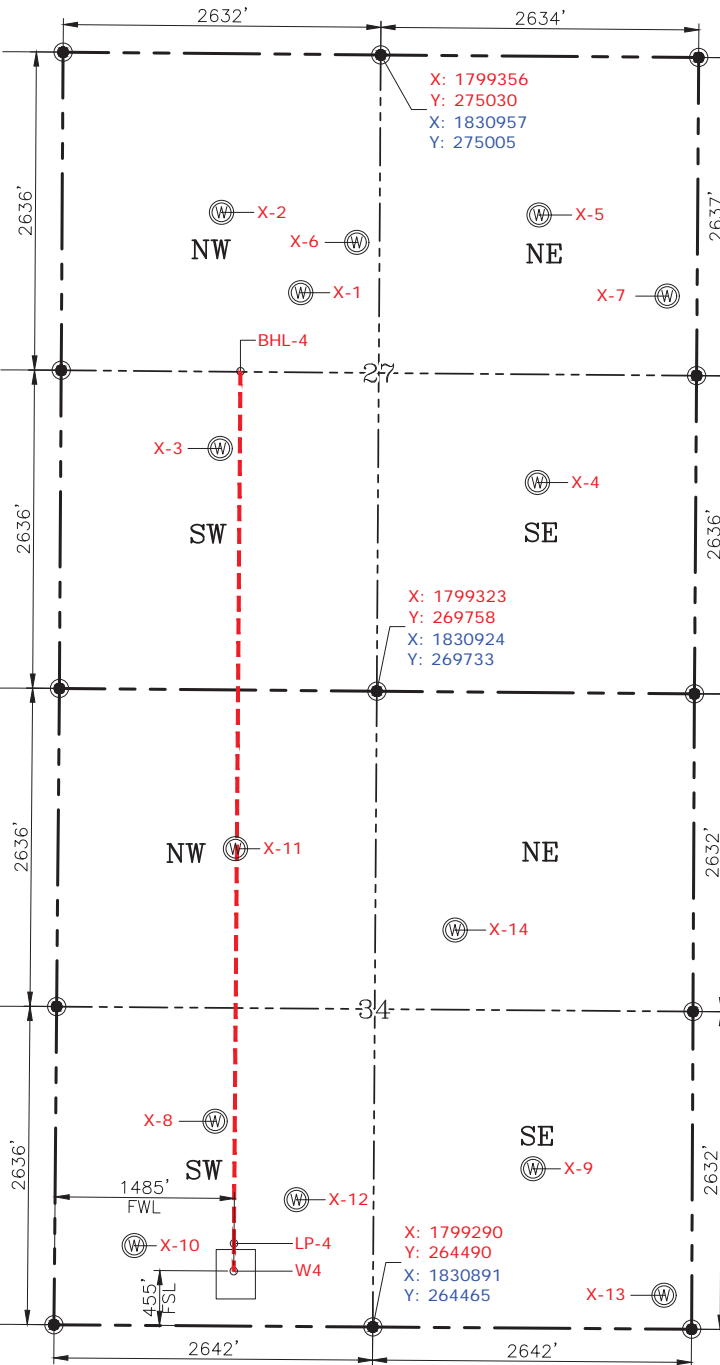
Prepared By:
 Petro Land Services South
 10400 Vineyard Blvd.
 Suite C
 Oklahoma City, OK 73120

CURRENT REV.: 0

EXHIBIT: A (3 of 3)SHEET: 8.5x14SHL: 34-15N-13WBHL-4 27-15N-13W**PETRO LAND SERVICES SOUTH, LLC**10400 VINEYARD BLVD, SUITE C, OKLA. CITY, OKLA. 73120 * OFFICE (405) 212-3108
Certificate of Authorization No. 7318

BLAINE

County Oklahoma

455' FSL-1485' FWL Section 34 Township 15N Range 13W I.M.CONTINENTAL
RESOURCES, INC.
(OPERATOR)WELL: RANDOLPH
4-34-27XHMX: 1796724
Y: 275053
X: 1828325
Y: 275028X: 1799356
Y: 275030
X: 1830957
Y: 275005X: 1801990
Y: 275009
X: 1833591
Y: 274984X: 1796709
Y: 272417
X: 1828310
Y: 272392X: 1801973
Y: 272372
X: 1833574
Y: 272347X: 1796693
Y: 269781
X: 1828294
Y: 269756X: 1801955
Y: 269736
X: 1833556
Y: 269711X: 1796671
Y: 267145
X: 1828272
Y: 267120X: 1801943
Y: 267104
X: 1833544
Y: 267079X: 1796648
Y: 264508
X: 1828249
Y: 264483X: 1801931
Y: 264471
X: 1833532
Y: 264446GPS DATUM
NAD-83
NAD-27
OK NORTH ZONE
US FEET
SCALE:
1" = 1250'

CURRENT REV.: 0

Date Drawn: 06-07-19

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