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

API NUMBER: 011 24157

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

Horizontal Hole Oil & Gas
Multi Unit

PERMIT TO DRILL

WELL LOCATION: Sec: 13 Twp: 15N Rge: 11W County: BLAINE

SPOT LOCATION: SE NW NW NE FEET FROM QUARTER: FROM **NORTH** FROM **EAST**
SECTION LINES: **332** **2224**

Lease Name: REBA JO **Well No: 4-13-24XHM** **Well will be 332 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

CAROLYN J. MOORE REVOCABLE TRUST
3841 EAST 57TH STREET
TULSA OK 74135

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

	Name	Depth		Name	Depth
1	MISSISSIPPIAN	11181	6		
2	MISSISSIPPI LIME	11226	7		
3	KINDERHOOK	11520	8		
4	WOODFORD	11700	9		
5			10		

Spacing Orders: 648028, 581931, 682789

Location Exception Orders: 680947

Increased Density Orders: 678693, 678694

Pending CD Numbers:

Special Orders:

Total Depth: 21445 Ground Elevation: 1521 **Surface Casing: 1500** Depth to base of Treatable Water-Bearing FM: 80

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 AP/TE DEPOSIT
Pit Location Formation: TERRACE

Approved Method for disposal of Drilling Fluids:

D. One time land application -- (REQUIRES PERMIT) PERMIT NO: 18-35930
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 24 Twp 15N Rge 11W 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: 10477

Radius of Turn: 477

Direction: 185

Total Length: 10219

Measured Total Depth: 21445

True Vertical Depth: 11700

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

Notes:

Category	Description
DEEP SURFACE CASING	12/7/2018 - 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	12/7/2018 - G71 - 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
INCREASED DENSITY - 678693	1/4/2019 - G75 - 13-15N-11W X581931 MSSLM 6 WELLS CONTINENTAL RESOURCES, INC. 6-4-2018
INCREASED DENSITY - 678694	1/4/2019 - G75 - 24-15N-11W X648028 MSSP 4 WELLS CONTINENTAL RESOURCES, INC. 6-4-2018

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.

Category	Description
INTERMEDIATE CASING	12/7/2018 - 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
LOCATION EXCEPTION - 680947	1/4/2019 - G75 - (I.O.) 13 & 24-15N-11W X581931 MSSLM, KDRK, OTHER 13-15N-11W X648028 MSSP, WDFD 24-15N-11W X165:10-3-28(C)(2)(B) MAY BE CLOSER THAN 600' TO EXISTING/PROPOSED WELL COMPL. INT. (13-15N-11W) NCT 150' FNL, NCT 0' FSL, NCT 1320' FEL OR FWL COMPL. INT (24-15N-11W) NCT 0' FNL, NCT 150' FSL, NCT 1320' FEL OR FWL CONTINENTAL RESOURCES, INC. 8-3-2018
MEMO	12/7/2018 - G71 - PIT 1 & 2 - CLOSED SYSTEM=STEEL PITS PER OPERATOR REQUEST; PIT 2 - OBM TO VENDOR, OBM CUTTINGS PER DISTRICT
SPACING - 581931	1/4/2019 - G75 - (640) 13-15N-11W EXT OTHER EXT 579331 MSSLM, OTHERS EST KDRK, OTHERS
SPACING - 648028	1/4/2019 - G75 - (640) 24-15N-11W EXT 581931 WDFD, OTHERS EST MSSP
SPACING - 682789	1/4/2019 - G75 - (I.O.) 13 & 24-15N-11W EST MULTIUNIT HORIZONTAL WELL X581931 MSSLM, KDRK, OTHER 13-15N-11W X648028 MSSP, WDFD 24-15N-11W (KDRK, WDFD ADJACENT COMMON SOURCES OF SUPPLY TO MSSLM, MSSP) 50% 13-15N-11W 50% 24-15N-11W CONTINENTAL RESOURCES, INC. 9-11-2018

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 4)
SHEET: 8.5x11
SHL: 13–15N–11W
BHL-4 24–15N–11W
BHL-5 24–15N–11W

Continental RESOURCES

API 011-24157

COVER SHEET

CONTINENTAL RESOURCES, INC.

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

Section 13 Township 15N Range 11W I.M. Well: REBA JO 4–13–24XHM

County BLAINE State OK Well: REBA JO 5–13–24XHM

Operator CONTINENTAL RESOURCES, INC.

NAD–83

POINT	WELL NAME	NORTHING	EASTING	LATITUDE LONGITUDE	LATITUDE LONGITUDE		EXISTING ELEVATION	DESIGN ELEVATION
W4	REBA JO 4–13–24XHM	284886	1873397	35° 46' 55.87" –98° 19' 14.26"	35.782187 –98.320628	332' FNL / 2224' FEL (NE/4 SEC 13)	1519.31	1520.96
LP–4	LANDING POINT	284886	1872964	35° 46' 55.85" –98° 19' 19.52"	35.782181 –98.322089	332' FNL / 2640' FWL (NW/4 SEC 13)	--	--
BHL–4	BOTTOM HOLE LOCATION	274708	1872918	35° 45' 15.20" –98° 19' 19.67"	35.754221 –98.322132	50' FSL / 2640' FWL (SW/4 SEC 24)	--	--
W5	REBA JO 5–13–24XHM	284886	1873427	35° 46' 55.87" –98° 19' 13.90"	35.782187 –98.320527	332' FNL / 2194' FEL (NE/4 SEC 13)	1520.05	1520.96
LP–5	LANDING POINT	284887	1873751	35° 46' 55.89" –98° 19' 09.97"	35.782191 –98.319435	332' FNL / 1870' FEL (NE/4 SEC 13)	--	--
BHL–5	BOTTOM HOLE LOCATION	274709	1873700	35° 45' 15.23" –98° 19' 10.19"	35.754230 –98.319496	50' FSL / 1870' FEL (SE/4 SEC 24)	--	--
X–1	TEMPLE UNIT #1	281260	1871625	35° 46' 19.95" –98° 19' 35.62"	35.772208 –98.326562	13–15N–11W:SW4 | TD: 9,925' | 1,320' FSL / 1,320' FWL	--	--
X–2	TANNER #1–13	283898	1871639	35° 46' 46.04" –98° 19' 35.56"	35.779456 –98.326545	13–15N–11W:NW4 | TD: 9,926' | 1,320' FSL / 1,320' FWL	--	--
X–3	HESSEL #1	282831	1874284	35° 46' 35.57" –98° 19' 03.42"	35.776548 –98.317616	13–15N–11W:S2S2NE4 | TD: 9,925' | 250' FSL / 1,320' FWL	--	--
X–4	HESSEL UNIT B–1	281262	1874938	35° 46' 20.08" –98° 18' 55.42"	35.772243 –98.315395	13–15N–11W:E2SE4 | TD: 10,038' | 1,320' FNL / 1,980' FWL	--	--
X–5	TANNER #1–13H	280139	1870649	35° 46' 08.83" –98° 19' 47.42"	35.769120 –98.329839	13–15N–11W:SE4SW4SW4SW4 | TD: 16,455' | 200' FSL / 350' FWL	--	--
X–6	REBA JO #1–13H	280180	1871124	35° 46' 09.25" –98° 19' 41.65"	35.769235 –98.328237	13–15N–11W:SW4SE4SW4SW4 | TD: 15,705' | 240' FSL / 825' FWL	--	--
X–7	KELLY UNIT #C–1	277441	1871609	35° 45' 42.18" –98° 19' 35.67"	35.761716 –98.326575	24–15N–11W:S2S2NW4 | TD: 10,100' | 140' FSL / 1,320' FWL	--	--
X–8	KELLY UNIT #C–2	278623	1874088	35° 45' 53.95" –98° 19' 05.63"	35.764985 –98.318230	24–15N–11W:NE4 | TD: 10,100' | 1,320' FSL / 1,140' FWL	--	--
X–9	WALKER #1–24	275322	1870940	35° 45' 21.20" –98° 19' 43.69"	35.755888 –98.328804	24–15N–11W:SW4SW4 | TD: 10,100' | 660' FSL / 660' FWL	--	--
X–10	JALOU 1–25–36XHM	275680	1873224	35° 45' 24.82" –98° 19' 15.99"	35.756895 –98.321109	24–15N–11W:NW4NW4SW4SE4 | TD: 21,390' | 1,022' FSL / 2,352' FEL	--	--
X–11	JALOU 2–25–36XHM	275680	1873224	35° 45' 24.82" –98° 19' 15.99"	35.756895 –98.321109	24–15N–11W:NW4NW4SW4SE4 | TD: 21,210' | 1,022' FSL / 2,322' FEL	--	--
X–12	JALOU 3–25–36XHM	275452	1874835	35° 45' 22.61" –98° 18' 56.44"	35.756281 –98.315678	24–15N–11W:SE4NW4SE4SE4 | TD: 20,933' | 792' FSL / 770' FEL	--	--
X–13	JALOU 4–25–36XHM	275452	1874835	35° 45' 22.61" –98° 18' 56.44"	35.756281 –98.315678	24–15N–11W:SE4NW4SE4SE4 | TD: 20,723' | 792' FSL / 740' FEL	--	--

Certificate of Authorization No. 7318

Date Staked: 05–02–18
Date Drawn: 05–02–18

PLS

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

REVISIONS

No.	DATE	BY	DESCRIPTION	COMMENTS
00	05–02–18	MJL	ISSUED FOR APPROVAL	--
01	06–15–18	HDG	MOVED BHL'S & LP'S	UPDATED ON ALL SHEETS
02	06–27–18	HDG	MOVED UTILITIES/ACCESS TO NE	UPDATED ON ALL SHEETS
03	10–2–18	MJL	REV. BHL's FOR W4 & W5	UPDATED EXHIBIT A (1 THRU 4)

EXHIBIT: A (3 of 4)
SHEET: 8.5x14
SHL: 13–15N–11W
BHL-4 24–15N–11W

PETRO LAND SERVICES SOUTH, LLC

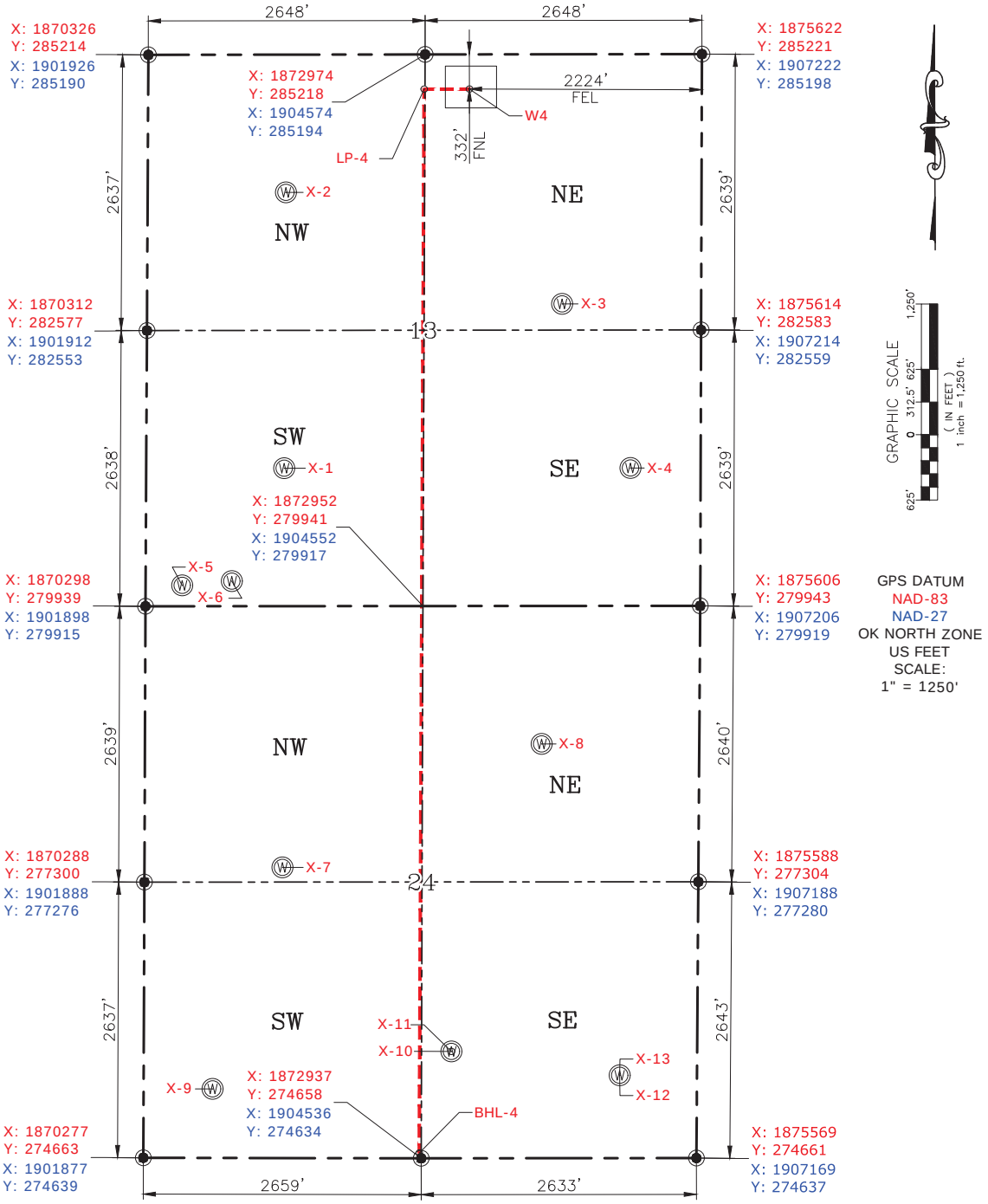
10400 VINEYARD BLVD. SUITE C, OKLA. CITY, OKLA. 73120 * OFFICE (405) 212-3108
Certificate of Authorization No. 7318

BLAINE County Oklahoma
332' FNL–2224' FEL Section 13 Township 15N Range 11W I.M.

Continental RESOURCES

CONTINENTAL RESOURCES, INC (OPERATOR)

WELL: REBA JO 4–13–24XHM



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

Date Staked: 05–02–18
Date Drawn: 05–02–18
CURRENT REV.: 3

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.

REGISTERED PROFESSIONAL LAND SURVEYOR OKLAHOMA
RANDALL J. BILYEU
1196
10/4/18

Randall J. Bilyeu

Oklahoma PLS No.1196 DATE