API NUMBER: 051 24482

Horizontal Hole Oil & Gas

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

Approval Date: 09/20/2018
Expiration Date: 03/20/2020

PERMIT TO DRILL

WELL LOCATION: Sec: 19 Twp: 7N Rge: 5W County: GRADY

SPOT LOCATION: NW SE SE SW FEET FROM QUARTER: FROM **SOUTH** FROM **WEST**
SECTION LINES: **576** **2030**

Lease Name: DYER **Well No: 4-30-31XHW** **Well will be 576 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

BOB & CHARLENE CANTRELL FAMILY TRUST
2009 HIGHWAY 62
BLANCHARD OK 73010

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

	Name	Depth		Name	Depth
1	MISSISSIPPI LIME	12166	6		
2	MISSISSIPPIAN	12238	7		
3	WOODFORD	12255	8		
4	HUNTON	12398	9		
5			10		

Spacing Orders: 150355, 151109, 593293, 160704, 632963

Location Exception Orders:

Increased Density Orders:

Pending CD Numbers: 201806197, 201806196, 201806256, 201806257

Special Orders:

Total Depth: 23181 Ground Elevation: 1235 **Surface Casing: 1500** Depth to base of Treatable Water-Bearing FM: 200

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

Approved Method for disposal of Drilling Fluids:

D. One time land application -- (REQUIRES PERMIT) PERMIT NO: 18-35176
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 1 INFORMATION

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 not** located in a Hydrologically Sensitive Area.

Category of Pit: C

Liner not required for Category: C

Pit Location is NON HSA

Pit Location Formation: CHICKASHA

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 not** located in a Hydrologically Sensitive Area.

Category of Pit: C

Liner not required for Category: C

Pit Location is NON HSA

Pit Location Formation: CHICKASHA

HORIZONTAL HOLE 1

Sec 31 Twp 7N Rge 5W County GRADY

Spot Location of End Point: S2 SE SE SW

Feet From: SOUTH 1/4 Section Line: 50

Feet From: EAST 1/4 Section Line: 2310

Depth of Deviation: 11979

Radius of Turn: 477

Direction: 181

Total Length: 10453

Measured Total Depth: 23181

True Vertical Depth: 12485

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

Notes:

Category	Description
DEEP SURFACE CASING	9/5/2018 - 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

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
HYDRAULIC FRACTURING	9/5/2018 - 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	9/5/2018 - G71 - PITS 1 & 2 - CLOSED SYSTEM=STEEL PITS PER OPERATOR REQUEST, PIT 2 - OBM RETURNED TO VENDOR, CUTTINGS PERMITTED PER DISTRICT
PENDING CD - 201806196	9/20/2018 - G58 - (I.O.) 30 & 31-7N-5W X160704 HNTN 30-7N-5W X632963 MSSP, WDFD 30-7N-5W X150355 HNTN 31-7N-5W X151109 MSSLM 31-7N-5W X593293 WDFD 31-7N-5W SHL NCT 50' FSL, NCT 1320' FWL OF 19-7N-5W COMPL. INT. 30-7N-5W NCT 150' FNL, NCT 0' FSL, NCT 1320' FEL COMPL. INT. 31-7N-5W NCT 0' FNL, NCT 150' FSL, NCT 1320' FEL NO OP. NAMED REC 8/27/2018 (MILLER)
PENDING CD - 201806197	9/20/2018 - G58 - (I.O.) 30 & 31-7N-5W EST MULTIUNIT HORIZONTAL WELL X160704 HNTN 30-7N-5W X632963 MSSP, WDFD 30-7N-5W X150355 HNTN 31-7N-5W X151109 MSSLM 31-7N-5W X593293 WDFD 31-7N-5W (MSSP, MSSLM, HNTN ARE ADJACENT COMMON SOURCE OF SUPPLY TO WDFD) 50% 30-7N-5W 50% 31-7N-5W NO OP. NAMED REC 8/27/2018 (MILLER)
PENDING CD - 201806256	9/20/2018 - G58 - 30-7N-5W X632963 WDFD 4 WELLS NO OP. NAMED REC 8/27/2018 (MILLER)
PENDING CD - 201806257	9/20/2018 - G58 - 31-7N-5W X593293 WDFD 4 WELLS NO OP. NAMED REC 8/27/2018 (MILLER)
SPACING - 150355	9/20/2018 - G58 - (640) 31-7N-5W VAC OTHER EXT OTHERS EST OTHERS EXT 131103 HNTN, OTHERS
SPACING - 151109	9/20/2018 - G58 - (640) 30 & 31-7N-5W EXT OTHER EST MSSLM, OTHERS (VAC SEC 30 BY 632963)
SPACING - 160704	9/20/2018 - G58 - (640) 30-7N-5W EXT 106361 HNTN
SPACING - 593293	9/20/2018 - G58 - (640) 31-7N-5W EXT 587938 WDFD, OTHERS
SPACING - 632963	9/20/2018 - G58 - (640) 30-7N-5W VAC 151109 MSSLM EXT 587938/593293 MSSP, WDFD, OTHER

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: 19–07N–05W
BHL-3 31–07N–05W
BHL-4 31–07N–05W

Continental RESOURCES

COVER SHEET

CONTINENTAL RESOURCES, INC.

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

Section 19 Township 07N Range 05W I.M. Well: DYER 3–30–31XHW

County GRADY State OK Well: DYER 4–30–31XHW 051-24482

Operator CONTINENTAL RESOURCES, INC.

NAD–83

POINT	WELL NAME	NORTHING	EASTING	LATITUDE LONGITUDE	LATITUDE LONGITUDE		EXISTING ELEVATION	DESIGN ELEVATION
W3	DYER 3–30–31XHW	628514	2037513	35° 03' 36.52" –97° 46' 09.83"	35.060144 –97.769397	546' FSL / 2030' FWL (SW/4 SEC 19)	1235.26'	1234.60'
LP–3	LANDING POINT	627918	2037464	35° 03' 30.63" –97° 46' 10.43"	35.058507 –97.769565	50' FNL / 1980' FWL (NW/4 SEC 30)	--	--
BHL–3	BOTTOM HOLE LOCATION	617464	2037492	35° 01' 47.22" –97° 46' 10.39"	35.029784 –97.769551	50' FSL / 1980' FWL (SW/4 SEC 31)	--	--
W4	DYER 4–30–31XHW	628544	2037513	35° 03' 36.81" –97° 46' 09.83"	35.060226 –97.769397	576' FSL / 2030' FWL (SW/4 SEC 19)	1234.68'	1234.60'
LP–4	LANDING POINT	627919	2038360	35° 03' 30.61" –97° 45' 59.66"	35.058504 –97.766572	50' FNL / 2310' FEL (NE/4 SEC 30)	--	--
BHL–4	BOTTOM HOLE LOCATION	617466	2038363	35° 01' 47.22" –97° 45' 59.92"	35.029784 –97.766643	50' FSL / 2310' FEL (SE/4 SEC 31)	--	--
X–1	CANTRELL #1–19	629440	2039262	35° 03' 45.64" –97° 45' 48.77"	35.062677 –97.763547	19–7N–5W:SE4NW4SE4 | TD: 11,210' | 1,470' FSL / 1,220' FWL	--	--
X–2	TRIPLE H #2–30–31H	628349	2038302	35° 03' 34.87" –97° 46' 00.35"	35.059686 –97.766763	19–7N–5W:NW4SW4SW4SW4 | TD: 21,701' | 380' FSL / 270' FWL	--	--
X–3	TRIPLE H #3–30–31H	628221	2040011	35° 03' 33.56" –97° 45' 39.79"	35.059322 –97.761053	19–7N–5W:S2S2SE4SW4 | TD: 21,771' | 250' FSL / 1,980' FWL	--	--
X–4	HOOPER TRUST #1–30	626647	2036438	35° 03' 18.08" –97° 46' 22.81"	35.055022 –97.773003	30–7N–5W:W2E2W2NW3 | TD: 11,400' | 1,320' FSL / 950' FWL	--	--
X–5	JACQUEZ #1H–18X	625581	2040142	35° 03' 07.45" –97° 45' 38.29"	35.052070 –97.760635	30–7N–5W:NW4NE4NE4NE4 | TD: 20,279' | 244' FNL / 528' FEL	--	--
X–6	TRIPLE H #1–30H	622942	2035988	35° 02' 41.44" –97° 46' 28.33"	35.044845 –97.774535	30–7N–5W:SE4SW4SW4SW4 | TD: 17,293' | 257' FSL / 491' FWL	--	--
X–7	JAMES #1H–18X	627647	2036485	35° 03' 27.97" –97° 46' 22.22"	35.057769 –97.772839	30–7N–5W:NE4NE4NW4NW4 | TD: 24,035' | 320' FNL / 1,000' FWL	--	--
X–8	TRIPLE H #4–30–31HS	627670	2039540	35° 03' 28.12" –97° 45' 45.47"	35.057812 –97.762631	30–7N–5W:NW4NW4NE4NE4 | TD: 21,705' | 300' FNL / 1,130' FEL	--	--
X–9	TRIPLE H #5–30–31HS	627670	2039570	35° 03' 28.12" –97° 45' 45.11"	35.057812 –97.762531	30–7N–5W:NW4NW4NE4NE4 | TD: 21,665' | 300' FNL / 1,100' FEL	--	--
X–10	CHAMBERS #1–31	618844	2039290	35° 02' 00.83" –97° 45' 48.73"	35.033564 –97.763536	31–7N–5W:NW4SE4 | TD: 7,653' | 1,426' FSL / 1,214' FWL	--	--
X–11	DYER #1–31H	617721	2036401	35° 01' 49.79" –97° 46' 23.49"	35.030498 –97.773193	31–7N–5W:SW4SE4SW4SW4 | TD: 17,163' | 310' FSL / 890' FWL	--	--
X–12	BRIARWOOD SWD #1	621985	2039976	35° 02' 31.89" –97° 45' 40.39"	35.042191 –97.761220	31–7N–5W:NE4NE4 | TD: 6,100' | 710' FNL / 695' FEL	--	--

Certificate of Authorization No. 7318

Date Staked: **–**–18
Date Drawn: 08–09–18

PLS

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

REVISIONS

No.	DATE	BY	DESCRIPTION	COMMENTS
00	08–09–18	HDG	ISSUED FOR APPROVAL	--

EXHIBIT: A (2 of 4)
SHEET: 8.5x11
SHL: 19–07N–05W
BHL-3 31–07N–05W
BHL-4 31–07N–05W

Continental RESOURCES

COVER SHEET CONTINUED...

CONTINENTAL RESOURCES, INC.

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

Section 19 Township 07N Range 05W I.M. Well: DYER 3–30–31XHW

County GRADY State OK Well: DYER 4–30–31XHW

Operator CONTINENTAL RESOURCES, INC.

NAD–27

POINT	WELL NAME	NORTHING	EASTING	LATITUDE LONGITUDE	LATITUDE LONGITUDE		EXISTING ELEVATION	DESIGN ELEVATION
W3	DYER 3–30–31XHW	628472	2069110	35° 03' 36.28" –97° 46' 08.69"	35.060077 –97.769079	546' FSL / 2030' FWL (SW/4 SEC 19)	1235.26'	1234.60'
LP–3	LANDING POINT	627876	2069061	35° 03' 30.39" –97° 46' 09.29"	35.058441 –97.769247	50' FNL / 1980' FWL (NW/4 SEC 30)	--	--
BHL–3	BOTTOM HOLE LOCATION	617422	2069089	35° 01' 46.98" –97° 46' 09.24"	35.029716 –97.769234	50' FSL / 1980' FWL (SW/4 SEC 31)	--	--
W4	DYER 4–30–31XHW	628502	2069110	35° 03' 36.57" –97° 46' 08.68"	35.060159 –97.769079	576' FSL / 2030' FWL (SW/4 SEC 19)	1234.68'	1234.60'
LP–4	LANDING POINT	627877	2069957	35° 03' 30.37" –97° 45' 58.52"	35.058437 –97.766254	50' FNL / 2310' FEL (NE/4 SEC 30)	--	--
BHL–4	BOTTOM HOLE LOCATION	617424	2069960	35° 01' 46.98" –97° 45' 58.77"	35.029717 –97.766326	50' FSL / 2310' FEL (SE/4 SEC 31)	--	--
X–1	CANTRELL #1–19	629398	2070859	35° 03' 45.40" –97° 45' 47.63"	35.062610 –97.763229	19–7N–5W:SE4NW4SE4 | TD: 11,210' | 1,470' FSL / 1,220' FWL	--	--
X–2	TRIPLE H #2–30–31H	628307	2069899	35° 03' 34.63" –97° 45' 59.20"	35.059619 –97.766445	19–7N–5W:NW4SW4SW4SW4 | TD: 21,701' | 380' FSL / 270' FWL	--	--
X–3	TRIPLE H #3–30–31H	628178	2071608	35° 03' 33.32" –97° 45' 38.65"	35.059255 –97.760736	19–7N–5W:S2S2SE4SW4 | TD: 21,771' | 250' FSL / 1,980' FWL	--	--
X–4	HOOPER TRUST #1–30	626605	2068035	35° 03' 17.84" –97° 46' 21.66"	35.054955 –97.772685	30–7N–5W:W2E2W2NW3 | TD: 11,400' | 1,320' FSL / 950' FWL	--	--
X–5	JACQUEZ #1H–18X	625539	2071739	35° 03' 07.21" –97° 45' 37.14"	35.052003 –97.760317	30–7N–5W:NW4NE4NE4NE4 | TD: 20,279' | 244' FNL / 528' FEL	--	--
X–6	TRIPLE H #1–30H	622900	2067585	35° 02' 41.20" –97° 46' 27.18"	35.044778 –97.774217	30–7N–5W:SE4SW4SW4SW4 | TD: 17,293' | 257' FSL / 491' FWL	--	--
X–7	JAMES #1H–18X	627605	2068082	35° 03' 27.73" –97° 46' 21.07"	35.057702 –97.772521	30–7N–5W:NE4NE4NW4NW4 | TD: 24,035' | 320' FNL / 1,000' FWL	--	--
X–8	TRIPLE H #4–30–31HS	627628	2071137	35° 03' 27.88" –97° 45' 44.33"	35.057746 –97.762313	30–7N–5W:NW4NW4NE4NE4 | TD: 21,705' | 300' FNL / 1,130' FEL	--	--
X–9	TRIPLE H #5–30–31HS	627628	2071167	35° 03' 27.88" –97° 45' 43.97"	35.057746 –97.762213	30–7N–5W:NW4NW4NE4NE4 | TD: 21,665' | 300' FNL / 1,100' FEL	--	--
X–10	CHAMBERS #1–31	618802	2070887	35° 02' 00.59" –97° 45' 47.59"	35.033497 –97.763218	31–7N–5W:NW4SE4 | TD: 7,653' | 1,426' FSL / 1,214' FWL	--	--
X–11	DYER #1–31H	617679	2067998	35° 01' 49.55" –97° 46' 22.35"	35.030431 –97.772875	31–7N–5W:SW4SE4SW4SW4 | TD: 17,163' | 310' FSL / 890' FWL	--	--
X–12	BRIARWOOD SWD #1	621943	2071573	35° 02' 31.65" –97° 45' 39.25"	35.042124 –97.760902	31–7N–5W:NE4NE4 | TD: 6,100' | 710' FNL / 695' FEL	--	--

EXHIBIT: A (3 of 4)
SHEET: 8.5x14
SHL: 19–07N–05W
BHL-3 31–07N–05W

PETRO LAND SERVICES SOUTH, LLC

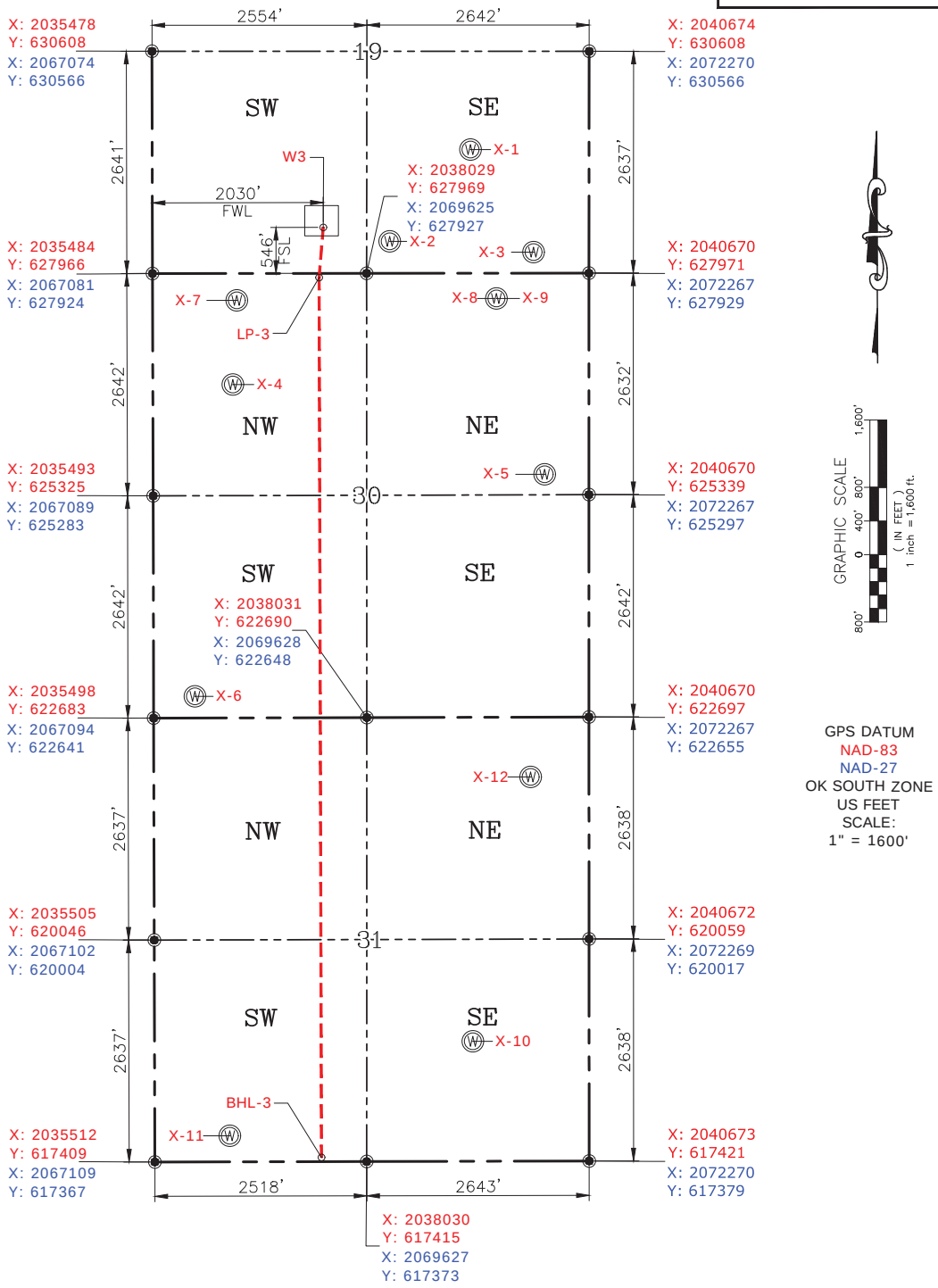
10400 VINEYARD BLVD. SUITE C, OKLA. CITY, OKLA. 73120 * OFFICE (405) 212-3108
Certificate of Authorization No. 7318

GRADY County Oklahoma
546' FSL–2030' FWL Section 19 Township 07N Range 05W I.M.

Continental RESOURCES

CONTINENTAL RESOURCES, INC (OPERATOR)

WELL: DYER 3–30–31XHW



GPS DATUM
NAD-83
NAD-27
OK SOUTH ZONE
US FEET
SCALE:
1" = 1600'

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.

Date Staked: **–**–18
Date Drawn: 08–09–18
CURRENT REV.: 0

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
RANDALL J. BILYEU
1196
OKLAHOMA
8/13/18

Randall J. Bilyeu

Oklahoma PLS No.1196 DATE

EXHIBIT: A (4 of 4)
SHEET: 8.5x14
SHL: 19–07N–05W
BHL-4 31–07N–05W

PETRO LAND SERVICES SOUTH, LLC

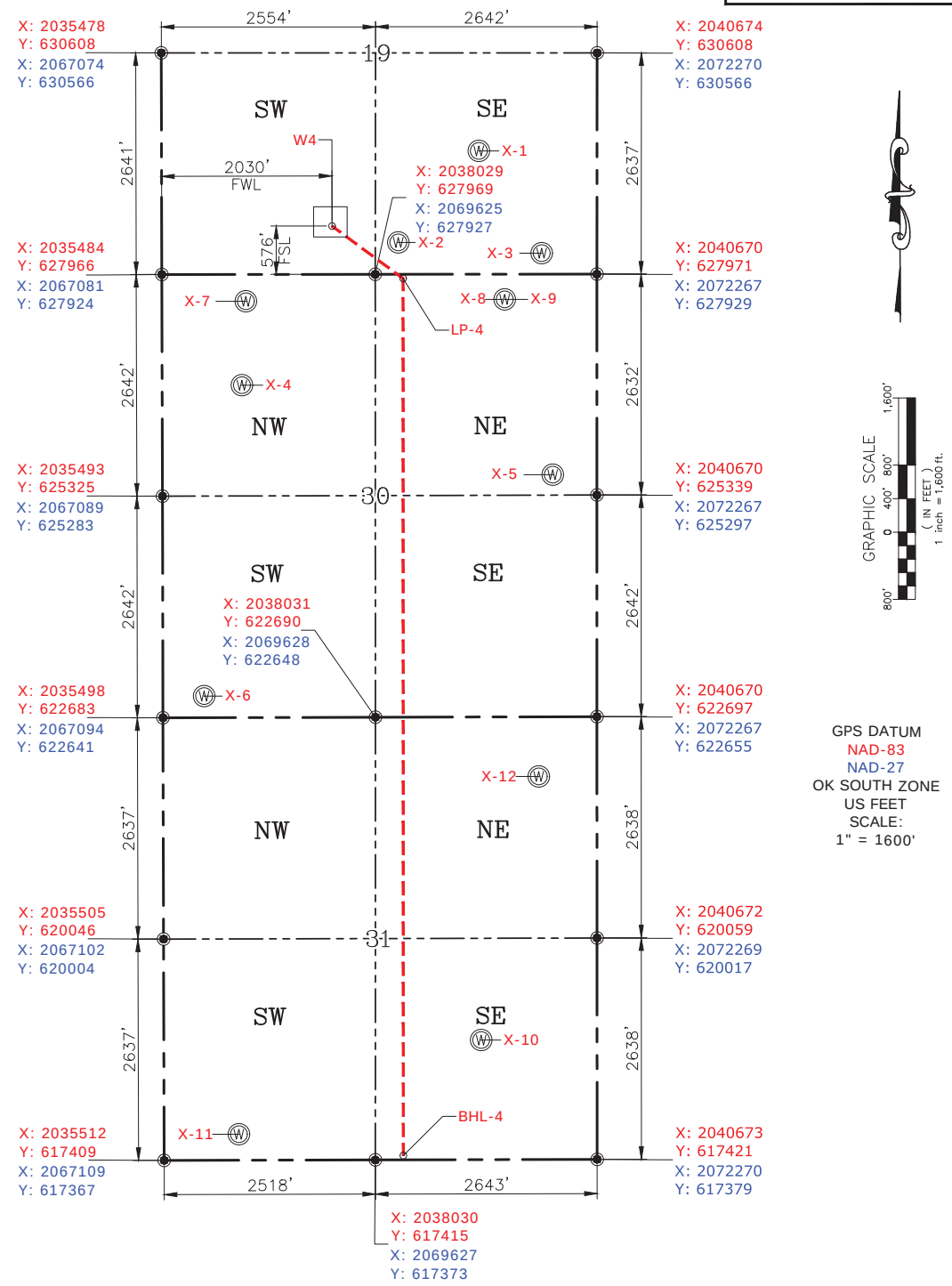
10400 VINEYARD BLVD. SUITE C, OKLA. CITY, OKLA. 73120 * OFFICE (405) 212-3108
Certificate of Authorization No. 7318

GRADY County Oklahoma
576' FSL–2030' FWL Section 19 Township 07N Range 05W I.M.

Continental RESOURCES

CONTINENTAL RESOURCES, INC (OPERATOR)

WELL: DYER 4–30–31XHW



GPS DATUM
NAD-83
NAD-27
OK SOUTH ZONE
US FEET
SCALE:
1" = 1600'

Date Staked: **–**–18
Date Drawn: 08–09–18
CURRENT REV.: 0

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
8/13/18

Randall J. Bilyeu

Oklahoma PLS No.1196 DATE