

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

API NUMBER: 051 24634

Approval Date: 05/15/2019

Expiration Date: 11/15/2020

Horizontal Hole
Oil & Gas
Multi Unit

PERMIT TO DRILL

WELL LOCATION: Sec: 29 Twp: 6N Rge: 5W

County: GRADY

SPOT LOCATION: ☐ SE ☐ NE ☐ NW ☐ NE

FEET FROM QUARTER: FROM NORTH FROM EAST

SECTION LINES: 400 1630

Lease Name: EARLY

Well No: 5-29-32XHW

Well will be 400 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

VIVIAN I. STROUD
1593 COUNTY ROAD 1630
ROFF OK 74865

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

Name	Depth	Name	Depth
1 WOODFORD	13191	6	
2		7	
3		8	
4		9	
5		10	

Spacing Orders: 629390
416838

Location Exception Orders:

Increased Density Orders:

Pending CD Numbers: 201902206
201902207
201902210
201902212

Special Orders:

Total Depth: 20506

Ground Elevation: 1159

Surface Casing: 1500

Depth to base of Treatable Water-Bearing FM: 410

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 BED AQUIFER

Pit Location Formation: DUNCAN

D. One time land application -- (REQUIRES PERMIT)

PERMIT NO: 19-36573

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 BED AQUIFER

Pit Location Formation: DUNCAN

HORIZONTAL HOLE 1

Sec 32 Twp 6N Rge 5W County GRADY

Spot Location of End Point: W2 E2 W2 E2

Feet From: NORTH 1/4 Section Line: 2640

Feet From: EAST 1/4 Section Line: 1815

Depth of Deviation: 12698

Radius of Turn: 477

Direction: 182

Total Length: 7059

Measured Total Depth: 20506

True Vertical Depth: 13437

End Point Location from Lease,
Unit, or Property Line: 1815

Notes:

Category

Description

DEEP SURFACE CASING

5/1/2019 - 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

5/1/2019 - 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

MEMO

5/1/2019 - G71 - PIT 1 & 2 - CLOSED SYSTEM=STEEL PITS PER OPERATOR REQUEST; PIT 2 - OBM TO VENDOR, OBM CUTTINGS PER DISTRICT

PENDING CD - 201902206

5/3/2019 - G75 - (I.O.) 29 & 32-6N-5W
EST MULTIUNIT HORIZONTAL WELL
X629390 WDFD 29-6N-5W
X416838 WDFD 32-6N-5W
66% 29-6N-5W
34% 32-6N-5W
CONTINENTAL RESOURCES, INC.
REC 5-14-2019 (MINMIER)

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

051 24634 EARLY 5-29-32XHW

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 - 201902207	5/3/2019 - G75 - (I.O.) 29 & 32-6N-5W X629390 WDFD 29-6N-5W X416838 WDFD 32-6N-5W COMPL. INT. (29-6N-5W) NCT 150' FNL, NCT 0' FSL, NCT 1320' FEL COMPL. INT. (32-6N-5W) NCT 0' FNL, NCT 150' FSL, NCT 1320' FEL CONTINENTAL RESOURCES, INC. REC 5-14-2019 (MINMIER)
PENDING CD - 201902210	5/3/2019 - G75 - 29-6N-5W X629390 WDFD 4 WELLS NO OP. NAMED REC 5-14-2019 (MINMIER)
PENDING CD - 201902212	5/3/2019 - G75 - 32-6N-5W X416838 WDFD 4 WELLS NO OP. NAMED REC 5-14-2019 (MINMIER)
SPACING - 416838	5/3/2019 - G75 - (640) 32-6N-5W VAC OTHER EST OTHER EXT OTHERS EXT 415357 WDFD, OTHERS
SPACING - 629390	5/3/2019 - G75 - (640) 29-6N-5W EXT OTHERS EXT 610650 WDFD, OTHERS

EXHIBIT: A (1 of 3)
SHEET: 8.5x14
SHL: 29-6N-5W
BHL-5 32-6N-5W
BHL-6 17-6N-5W



API 051-24634

COVER SHEET

CONTINENTAL RESOURCES, INC.

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

Section 29 Township 6N Range 5W I.M.

Well: EARLY 5-29-32XHW

County GRADY State OK

Well: RK MORRIS 6-20-17XHW

Operator CONTINENTAL RESOURCES, INC.

NAD-83							EXISTING ELEVATION	DESIGN ELEVATION
POINT	WELL NAME	NORTHING	EASTING	LATITUDE LONGITUDE	LATITUDE LONGITUDE			
W5	EARLY 5-29-32XHW	595843	2044387	34° 58' 13.21" -97° 44' 48.13"	34.970336 -97.746703	400' FNL / 1630' FEL (NE/4 SEC 29)	1157.09	1158.96'
LP-5	LANDING POINT	595843	2044202	34° 58' 13.21" -97° 44' 50.35"	34.970335 -97.747319	400' FNL / 1815' FEL (NE/4 SEC 29)	--	--
BHL-5	BOTTOM HOLE LOCATION	588316	2044237	34° 56' 58.75" -97° 44' 50.16"	34.949654 -97.747268	2640' FNL / 1815' FEL (NE/4 SEC 32)	--	--
W6	RK MORRIS 6-20-17XHW	595873	2044387	34° 58' 13.50" -97° 44' 48.13"	34.970418 -97.746703	370' FNL / 1630' FEL (NE/4 SEC 29)	1155.62'	1158.96'
LP-6	LANDING POINT	596296	2044761	34° 58' 17.67" -97° 44' 43.62"	34.971576 -97.745449	50' FSL / 1254' FEL (SE/4 SEC 20)	--	--
BHL-6	BOTTOM HOLE LOCATION	606792	2044758	35° 00' 01.49" -97° 44' 43.35"	35.000414 -97.745374	50' FNL / 1254' FEL (NE/4 SEC 17)	--	--
X-1	R. K. MORRIS #1-29-17XH	594643	2040999	34° 58' 01.42" -97° 45' 28.88"	34.967062 -97.758022	29-6N-5W: TD: 25,270' 1,582' FNL / 260' FWL	--	--
X-2	MOWDY #A-1"	586314	2041932	34° 56' 39.01" -97° 45' 17.91"	34.944169 -97.754975	32-6N-5W: TD: 15,025' 660' FSL / 1,150' FWL	--	--
X-3	EARLY #1-32-29XH	588106	2043024	34° 56' 56.71" -97° 45' 04.73"	34.949086 -97.751315	32-6N-5W: TD: 21,435' 2,450' FSL / 2,250' FWL	--	--
X-4	PEARSON VOSS #1-17	605283	2042045	34° 59' 46.64" -97° 45' 16.00"	34.996288 -97.754444	17-6N-5W: TD: 14,249' 1,550' FNL / 1,342' FWL	--	--
X-5	KOLT #1-17H	601777	2045487	34° 59' 11.87" -97° 44' 34.73"	34.986631 -97.742981	17-6N-5W: TD: 17,356' 225' FSL / 530' FEL	--	--

NAD-27							EXISTING ELEVATION	DESIGN ELEVATION
POINT	WELL NAME	NORTHING	EASTING	LATITUDE LONGITUDE	LATITUDE LONGITUDE			
W5	EARLY 5-29-32XHW	595801	2075983	34° 58' 12.96" -97° 44' 46.99"	34.970267 -97.746387	400' FNL / 1630' FEL (NE/4 SEC 29)	1157.09'	1158.96'
LP-5	LANDING POINT	595801	2075799	34° 58' 12.96" -97° 44' 49.21"	34.970266 -97.747003	400' FNL / 1815' FEL (NE/4 SEC 29)	--	--
BHL-5	BOTTOM HOLE LOCATION	588274	2075833	34° 56' 58.50" -97° 44' 49.03"	34.949585 -97.746952	2640' FNL / 1815' FEL (NE/4 SEC 32)	--	--
W6	RK MORRIS 6-20-17XHW	595831	2075983	34° 58' 13.28" -97° 44' 46.99"	34.970349 -97.746387	370' FNL / 1630' FEL (NE/4 SEC 29)	1155.62'	1158.96'
LP-6	LANDING POINT	596254	2076358	34° 58' 17.43" -97° 44' 42.48"	34.971507 -97.745133	50' FSL / 1254' FEL (SE/4 SEC 20)	--	--
BHL-6	BOTTOM HOLE LOCATION	606750	2076354	35° 00' 01.25" -97° 44' 42.21"	35.000346 -97.745057	50' FNL / 1254' FEL (NE/4 SEC 17)	--	--
X-1	R. K. MORRIS #1-29-17XH	594602	2072595	34° 58' 01.18" -97° 45' 27.74"	34.966993 -97.757705	29-6N-5W: TD: 25,270' 1,582' FNL / 260' FWL	--	--
X-2	MOWDY #A-1"	586272	2073528	34° 56' 38.76" -97° 45' 16.77"	34.944100 -97.754659	32-6N-5W: TD: 15,025' 660' FSL / 1,150' FWL	--	--
X-3	EARLY #1-32-29XH	588064	2074621	34° 56' 56.46" -97° 45' 03.59"	34.949017 -97.750998	32-6N-5W: TD: 21,435' 2,450' FSL / 2,250' FWL	--	--
X-4	PEARSON VOSS #1-17	605241	2073641	34° 59' 46.39" -97° 45' 14.86"	34.996220 -97.754127	17-6N-5W: TD: 14,249' 1,550' FNL / 1,342' FWL	--	--
X-5	KOLT #1-17H	601735	2077084	34° 59' 11.63" -97° 44' 33.59"	34.986563 -97.742664	17-6N-5W: TD: 17,356' 225' FSL / 530' FEL	--	--

Certificate of Authorization No. 7318

Date Staked: 3-26-19
Date Drawn: 3-21-19



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

REVISIONS

No.	DATE	BY	DESCRIPTION	COMMENTS
00	3-21-19	HOG	ISSUED FOR APPROVAL	--
01	4-3-19	HOG	REMOVED EARLY 6	REV'D ALL EXHIBITS
02	4-17-19	HOG	ADDED RK MORRIS 6	REV'D ALL EXHIBITS

EXHIBIT: A (2 of 3)
SHEET: 8.5x14
SHL: 29-6N-5W
BHL-5 32-6N-5W

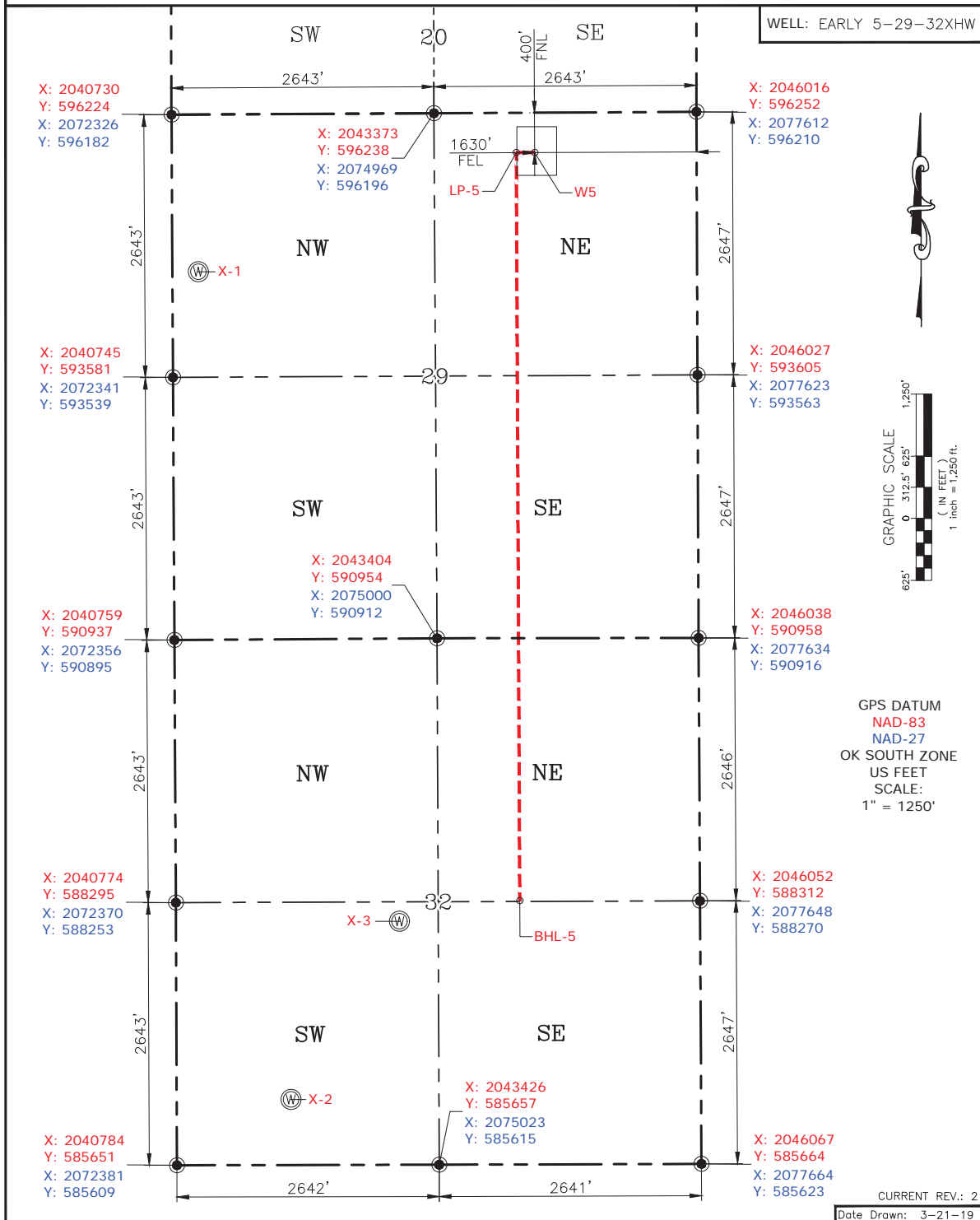
PETRO LAND SERVICES SOUTH, LLC

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



CONTINENTAL
RESOURCES, INC.
(OPERATOR)

GRADY _____ County Oklahoma
400' FNL-1630' FEL Section 29 Township 6N Range 5W I.M.



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