

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

API NUMBER: 051 24706

Approval Date: 08/29/2019

Expiration Date: 02/28/2021

Horizontal Hole  
Oil & Gas  
Multi Unit

PERMIT TO DRILL

WELL LOCATION: Sec: 22 Twp: 6N Rge: 5W

County: GRADY

SPOT LOCATION: ☐ NW ☐ NE ☐ NW ☐ SE

FEET FROM QUARTER: FROM SOUTH FROM EAST

SECTION LINES: 2610 1853

Lease Name: SPARKS

Well No: 3-22-27XHW

Well will be 1853 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

COMMISSIONERS OF THE LAND OFFICE STATE OF  
OKLAHOMA  
P.O. BOX 26910  
OKLAHOMA CITY OK 73126

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

Name	Depth	Name	Depth
1 WOODFORD	12220	6	
2		7	
3		8	
4		9	
5		10	

Spacing Orders: 590519  
595406

Location Exception Orders:

Increased Density Orders:

Pending CD Numbers: 201903802  
201903803  
201903621  
201903799

Special Orders:

Total Depth: 19915

Ground Elevation: 1153

Surface Casing: 1500

Depth to base of Treatable Water-Bearing FM: 280

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: 19-36772

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 27 Twp 6N Rge 5W County GRADY

Spot Location of End Point: S2 S2 SW SE

Feet From: SOUTH 1/4 Section Line: 50

Feet From: EAST 1/4 Section Line: 1980

Depth of Deviation: 11466

Radius of Turn: 382

Direction: 181

Total Length: 7849

Measured Total Depth: 19915

True Vertical Depth: 12220

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

### Notes:

#### Category

#### Description

#### DEEP SURFACE CASING

7/22/2019 - 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

7/22/2019 - 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](http://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](http://FRACFOCUS.ORG)

#### MEMO

7/22/2019 - G71 - PITS 1 & 2 - CLOSED SYSTEM=STEEL PITS PER OPERATOR REQUEST, PIT 2 - OBM RETURNED TO VENDOR, CUTTINGS PERMITTED PER DISTRICT

#### PENDING CD - 201903621

8/29/2019 - G56 - 22-6N-5W  
X590519 WDFD  
9 WELLS  
NO OP NAMED  
REC 8/5/2019 (M. PORTER)

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.

051 24706 SPARKS 3-22-27XHW

Category	Description
PENDING CD - 201903799	8/29/2019 - G56 - 27-6N-5W X595406 WDFD 4 WELLS NO OP NAMED REC 8/6/2019 (NORRIS)
PENDING CD - 201903802	8/29/2019 - G56 - (I.O.) 22 & 27-6N-5W ESTABLISH MULTIUNIT HORIZONTAL WELL X590519 WDFD 22-6N-5W X595406 WDFD 27-6N-5W 33% 22-6N-5W 67% 27-6N-5W CONTINENTAL RESOURCES, INC. REC 8/27/2019 (P. PORTER)
PENDING CD - 201903803	8/29/2019 - G56 - (I.O.) 22 & 27-6N-5W X590519 WDFD 22-6N-5W X595406 WDFD 27-6N-5W X165:10-3-28(C)(2)(B) WDFD MAY BE CLOSER THAN 600' TO EXISTING AND/OR PROPOSED WELLS COMPL INT (22-6N-5W) NCT 150' FNL, NCT 0' FSL, NCT 1320' FEL COMPL INT (27-6N-5W) NCT 0' FNL, NCT 150' FSL, NCT 1320' FEL CONTINENTAL RESOURCES, INC. REC 8/6/2019 (NORRIS)
SPACING - 590519	8/28/2019 - G56 - (640) 22-6N-5W EXT 587940/153801 WDFD
SPACING - 595406	8/28/2019 - G56 - (640) 27-6N-5W EXT 167964/VAR/190352 WDFD, OTHERS

EXHIBIT: A (2 of 4)  
 SHEET: 8.5x11  
 SHL: 22-6N-5W  
 BHL3 27-6N-5W  
 BHL-5 15-6N-5W



051-24706

## COVER SHEET CONTINUED...

### CONTINENTAL RESOURCES, INC.

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

Section 22 Township 6N Range 5W I.M. Well: SPARKS 3-22-27XHW  
 County GRADY State OK Well: GALVIN 5-22-15XHW  
 Operator CONTINENTAL RESOURCES, INC.

NAD-27

POINT	WELL NAME	NORTHING	EASTING	LATITUDE LONGITUDE	LATITUDE LONGITUDE		EXISTING ELEVATION	DESIGN ELEVATION
W3	SPARKS 3-22-27XHW	598847	2086377	34° 58' 42.81" -97° 42' 42.00"	34.978558 -97.711667	2610' FSL / 1853' FEL (SE/4 SEC 22)	1152.20'	1153.08'
LP-3	LANDING POINT	598847	2086250	34° 58' 42.81" -97° 42' 43.52"	34.978559 -97.712090	2610' FSL / 1980' FEL (SE/4 SEC 22)	--	--
BHL-3	BOTTOM HOLE LOCATION	590998	2086261	34° 57' 25.18" -97° 42' 43.66"	34.956993 -97.712129	50' FSL / 1980' FEL (SE/4 SEC 27)	--	--
W5	GALVIN 5-22-15XHW	598877	2086377	34° 58' 43.11" -97° 42' 42.00"	34.978641 -97.711668	2640' FSL / 1853' FEL (SE/4 SEC 22)	1152.65'	1153.08'
LP-5	LANDING POINT	598877	2086052	34° 58' 43.11" -97° 42' 45.90"	34.978642 -97.712751	2640' FSL / 2178' FEL (SE/4 SEC 22)	--	--
BHL-5	BOTTOM HOLE LOCATION	606763	2086029	35° 00' 01.12" -97° 42' 45.92"	35.000310 -97.712754	50' FNL / 2178' FEL (NE/4 SEC 15)	--	--
X-1	GOOD #1	604460	2086884	34° 59' 38.31" -97° 42' 35.71"	34.993975 -97.709920	15-6N-5W:   TD: 13,850'   2,352' FNL / 1,331' FEL	--	--
X-2	SPIVEY #1-15	603057	2083743	34° 59' 24.52" -97° 43' 13.51"	34.990145 -97.720420	15-6N-5W:   TD: 13,778'   1,529' FSL / 829' FWL	--	--
X-3	GOOD MARTIN #5-10-3XH	606513	2085868	34° 59' 58.65" -97° 42' 47.86"	34.999625 -97.713295	15-6N-5W:   TD: 20,041'   300' FNL / 2,340' FEL	--	--
X-4	GOOD MARTIN #3-10-3XH	606515	2084529	34° 59' 58.71" -97° 43' 03.96"	34.999642 -97.717765	15-6N-5W:   TD: 17,821'   300' FNL / 1,620' FWL	--	--
X-5	GOOD MARTIN #1-10-3XH	606518	2083209	34° 59' 58.77" -97° 43' 19.82"	34.999659 -97.722173	15-6N-5W:   TD: 20,102'   300' FNL / 300' FWL	--	--
X-6	GOOD MARTIN #4-10-3XH	606515	2084574	34° 59' 58.71" -97° 43' 03.41"	34.999642 -97.717615	15-6N-5W:   TD: 20,268'   300' FNL / 1,665' FWL	--	--
X-7	GOOD MARTIN #2-10-3XH	606518	2083254	34° 59' 58.77" -97° 43' 19.28"	34.999658 -97.722022	15-6N-5W:   TD: 20,242'   300' FNL / 345' FWL	--	--
X-8	GOOD MARTIN #6-10-3XH	606513	2085913	34° 59' 58.65" -97° 42' 47.32"	34.999625 -97.713144	15-6N-5W:   TD: 20,170'   300' FNL / 2,295' FEL	--	--
X-9	PAYNE #1-22	600128	2086694	34° 58' 55.47" -97° 42' 38.15"	34.982076 -97.710598	22-6N-5W:   TD: 13,750'   1,400' FNL / 1,534' FEL	--	--
X-10	GRIBI #1-22	598054	2084237	34° 58' 35.03" -97° 43' 07.75"	34.976397 -97.718818	22-6N-5W:   TD: 12,990'   1,820' FSL / 1,320' FWL	--	--
X-11	GALVIN #1-22-27XH	601228	2083367	34° 59' 06.44" -97° 43' 18.10"	34.985123 -97.721693	22-6N-5W:   TD: 19,635'   300' FNL / 450' FWL	--	--
X-12	SPARKS #1-27H	591140	2083733	34° 57' 26.66" -97° 43' 14.04"	34.957404 -97.720566	27-6N-5W:   TD: 17,443'   200' FSL / 800' FWL	--	--

Certificate of Authorization No. 7318

Date Staked: \*\*--\*\*--19  
 Date Drawn: 06-21-19



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

CURRENT REV.: 0

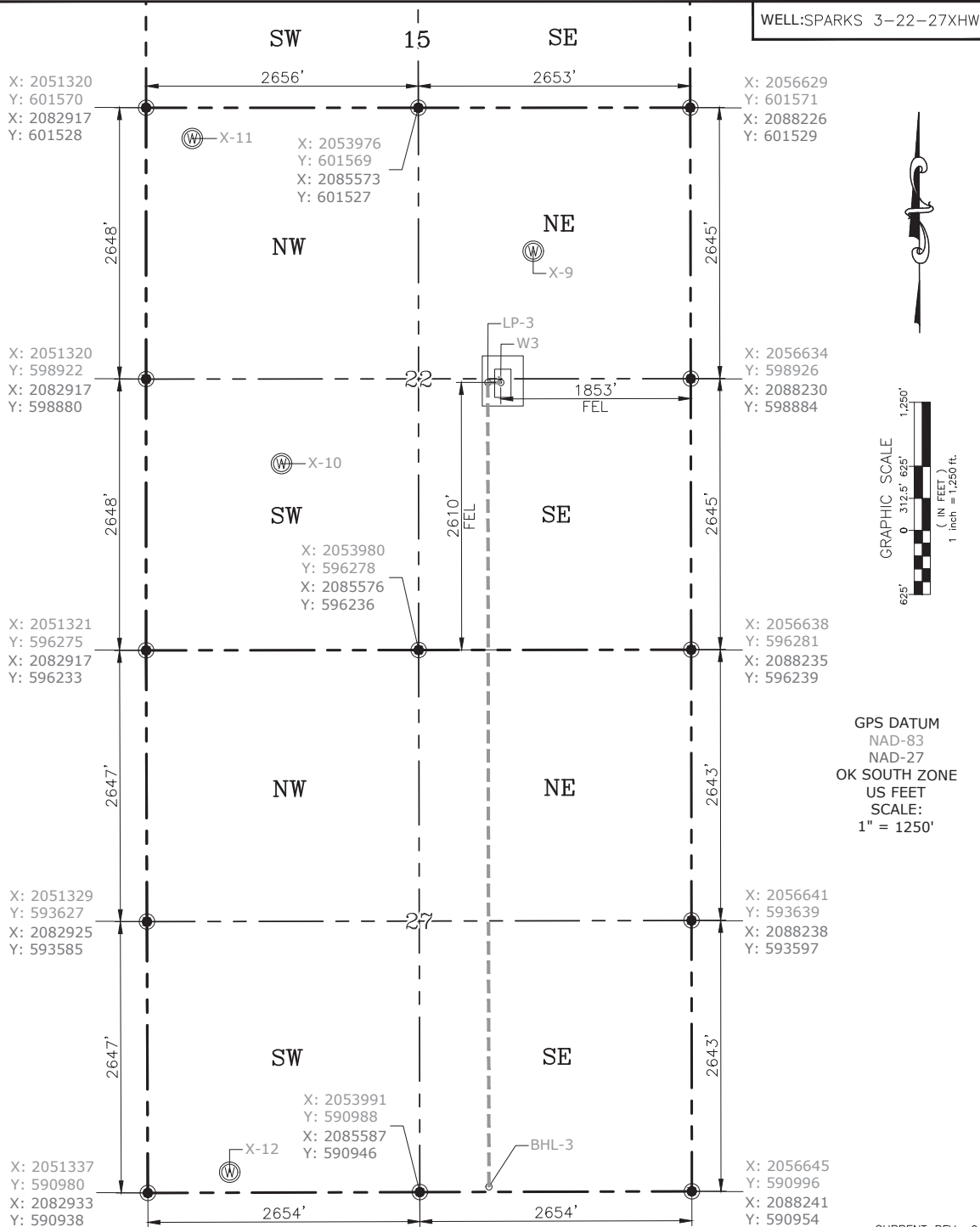
EXHIBIT: A (3 of 4)SHEET: 8.5x14SHL: 22-6N-5WBHL3: 27-6N-5W**PETRO LAND SERVICES SOUTH, LLC**10400 VINEYARD BLVD, SUITE C, OKLA. CITY, OKLA. 73120 \* OFFICE (405) 212-3108  
Certificate of Authorization No. 7318**CONTINENTAL  
RESOURCES, INC.**  
(OPERATOR)

GRADY

County Oklahoma

2610' FSL-1853' FEL Section 22 Township 6N Range 5W I.M.

WELL: SPARKS 3-22-27XHW

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

CURRENT REV.: 0

Date Drawn: 06-21-19

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