

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

API NUMBER: 051 24654

Approval Date: 06/07/2019

Expiration Date: 12/07/2020

Horizontal Hole
Multi Unit

Oil & Gas

PERMIT TO DRILL

WELL LOCATION: Sec: 31 Twp: 6N Rge: 5W

County: GRADY

SPOT LOCATION: ☐ NW ☐ NW ☐ SE ☐ SW

FEET FROM QUARTER: FROM SOUTH FROM WEST

SECTION LINES: 1055 1500

Lease Name: DUNGAN

Well No: 2-31-30XHW

Well will be 1055 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

WIRT H. BRAND JR.
3060 COUNTY STREET 2940
ALEX OK 73002

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

	Name	Depth	Name	Depth
1	MISSISSIPPIAN	13600	6	
2	SYCAMORE	13800	7	
3	WOODFORD	14095	8	
4	HUNTON	14400	9	
5			10	

Spacing Orders: 416838
620394

Location Exception Orders:

Increased Density Orders: 696447
696446

Pending CD Numbers: 201901981
201901982

Special Orders:

Total Depth: 20466

Ground Elevation: 1080

Surface Casing: 1500

Depth to base of Treatable Water-Bearing FM: 230

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 ALLUVIAL

Pit Location Formation: ALLUVIUM

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

PERMIT NO: 19-36524

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 ALLUVIAL

Pit Location Formation: ALLUVIUM

HORIZONTAL HOLE 1

Sec 30 Twp 6N Rge 5W County GRADY

Spot Location of End Point: C W2

Feet From: SOUTH 1/4 Section Line: 2640

Feet From: WEST 1/4 Section Line: 1320

Depth of Deviation: 13329

Radius of Turn: 487

Direction: 357

Total Length: 6371

Measured Total Depth: 20466

True Vertical Depth: 14400

End Point Location from Lease,
Unit, or Property Line: 1320

Notes:

Category

Description

DEEP SURFACE CASING

5/13/2019 - 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

5/13/2019 - 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

INCREASED DENSITY - 696446

5/23/2019 - GB1 - 30-6N-5W
X620394 MSSP, WDFD
3 WELLS WDFD
1 WELL MSSP
CONTINENTAL RESOURCES INC.
5/21/2019

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 24654 DUNGAN 2-31-30XHW

Category	Description
INCREASED DENSITY - 696447	<p>5/23/2019 - GB1 - 31-6N-5W X416838 SCMR, WDFD 3 WELLS WDFD 1 WELL SCMR CONTINENTAL RESOURCES INC. 5/31/2019***</p> <p>***S/B 5/21/2019; NPT HAS BEEN PREPARED BY ATTORNEY FOR OPERATOR AND A COPY HAS BEEN REVIEWED BY OCC</p>
MEMO	<p>5/13/2019 - G71 - PITS 1 & 2 - CLOSED SYSTEM=STEEL PITS (REQUIRED - WASHITA RIVER), PIT 2 - OBM RETURNED TO VENDOR, CUTTINGS PERMITTED PER DISTRICT</p>
PENDING CD - 201901981	<p>5/23/2019 - GB1 - (I.O.) 30 & 31-6N-5W EST MULTIUNIT HORIZONTAL WELL X620394 MSSP, WDFD, HNTN 30-6N-5W X416838 SCMR, WDFD, HNTN 31-6N-5W (MSSP, SCMR, HNTN ADJACENT COMMON SOURCES OF SUPPLY TO WDFD) 33.3% 30-6N-5W 66.7% 31-6N-5W CONTINENTAL RESOURCES INC. REC. 4/23/2019 (NORRIS)</p>
PENDING CD - 201901982	<p>5/23/2019 - GB1 - (I.O.) 30 & 31-6N-5W X620394 MSSP, WDFD, HNTN 30-6N-5W X416838 SCMR, WDFD, HNTN 31-6N-5W COMPL. INT. (31-6N-5W) NCT 150' FSL, NCT 0' FNL, NCT 330' FWL COMPL. INT. (30-6N-5W) NCT 0' FSL, NCT 2640' FNL, NCT 330' FWL CONTINENTAL RESOURCES INC. REC. 4/23/2019 (NORRIS)</p>
SPACING - 416838	<p>5/23/2019 - GB1 - (640) 31-6N-5W EST OTHER EXT OTHERS EXT 415357 SCMR, WDFD, HNTN, OTHERS</p>
SPACING - 620394	<p>5/23/2019 - GB1 - (640) 30-6N-5W EXT (VER) 416838 HNTN EXT (HOR) 614562 WDFD EST (HOR) MSSP COMPL. INT. (HNTN) NCT 1320' FB COMPL. INT. (MSSP) NCT 660' FB COMPL. INT. (WDFD) NCT 165' FNL/FSL, NCT 330' FEL/FWL</p>

EXHIBIT: A (1 of 2)
SHEET: 8.5x11
SHL: 31-6N-5W
BHL-2 30-6N-5W



COVER SHEET

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


Section 31 Township 6N Range 5W I.M. Well: DUNGAN 2-31-30XHW
County GRADY State OK Well: --
Operator CONTINENTAL RESOURCES, INC.

NAD-83							EXISTING ELEVATION	DESIGN ELEVATION
POINT	WELL NAME	NORTHING	EASTING	LATITUDE LONGITUDE	LATITUDE LONGITUDE			
W2	DUNGAN 2-31-30XHW	586699	2037058	34° 56' 42.94" -97° 46' 16.45"	34.945260 -97.771236	1055' FSL / 1500' FWL (SW/4 SEC 31)	1082.56'	1080.08'
LP-2	LANDING POINT	586699	2037432	34° 56' 42.93" -97° 46' 11.95"	34.945258 -97.769986	1055' FSL / 1875' FWL (SW/4 SEC 31)	--	--
PI-1	POINT OF INTERSECT	590940	2036865	34° 57' 24.88" -97° 46' 18.65"	34.956912 -97.771848	0' FNL / 1320' FWL (NW/4 SEC 31)	--	--
BHL-2	BOTTOM HOLE LOCATION	593580	2036861	34° 57' 51.00" -97° 46' 18.62"	34.964165 -97.771839	2640' FSL / 1320' FWL (SW/4 SEC 30)	--	--
X-1	BRAND #1-30XH	591206	2040029	34° 57' 27.45" -97° 45' 40.63"	34.957625 -97.761286	30-6N-5W: TD: 23,613' 270' FSL / 729' FEL	--	--
X-2	DUNGAN #1-31-30XH	585668	2036000	34° 56' 32.76" -97° 46' 29.18"	34.942433 -97.774771	31-6N-5W: TD: 21,419' 25' FSL / 440' FWL	--	--

NAD-27							EXISTING ELEVATION	DESIGN ELEVATION
POINT	WELL NAME	NORTHING	EASTING	LATITUDE LONGITUDE	LATITUDE LONGITUDE			
W2	DUNGAN 2-31-30XHW	586657	2068654	34° 56' 42.69" -97° 46' 15.31"	34.945191 -97.770919	1055' FSL / 1500' FWL (SW/4 SEC 31)	1082.56'	1080.08'
LP-2	LANDING POINT	586657	2069029	34° 56' 42.68" -97° 46' 10.81"	34.945189 -97.769669	1055' FSL / 1875' FWL (SW/4 SEC 31)	--	--
PI-1	POINT OF INTERSECT	590898	2068461	34° 57' 24.63" -97° 46' 17.51"	34.956843 -97.771531	0' FNL / 1320' FWL (NW/4 SEC 31)	--	--
BHL-2	BOTTOM HOLE LOCATION	593538	2068458	34° 57' 50.75" -97° 46' 17.48"	34.964097 -97.771522	2640' FSL / 1320' FWL (SW/4 SEC 30)	--	--
X-1	BRAND #1-30XH	591165	2071625	34° 57' 27.20" -97° 45' 39.49"	34.957556 -97.760969	30-6N-5W: TD: 23,613' 270' FSL / 729' FEL	--	--
X-2	DUNGAN #1-31-30XH	585626	2067597	34° 56' 32.51" -97° 46' 28.04"	34.942364 -97.774455	31-6N-5W: TD: 21,419' 25' FSL / 440' FWL	--	--

Certificate of Authorization No. 7318

Date Staked: 3-30-19
Date Drawn: 3-25-19

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

REVISIONS				
No.	DATE	BY	DESCRIPTION	COMMENTS
00	3-25-19	HDG	ISSUED FOR APPROVAL	--
01	4-1-19	HDG	REV'D BHL	REV'D EXHIBIT A(1 & 2)
02	4-26-19	HDG	REV'D LP	REV'D EXHIBIT A(1 & 2)

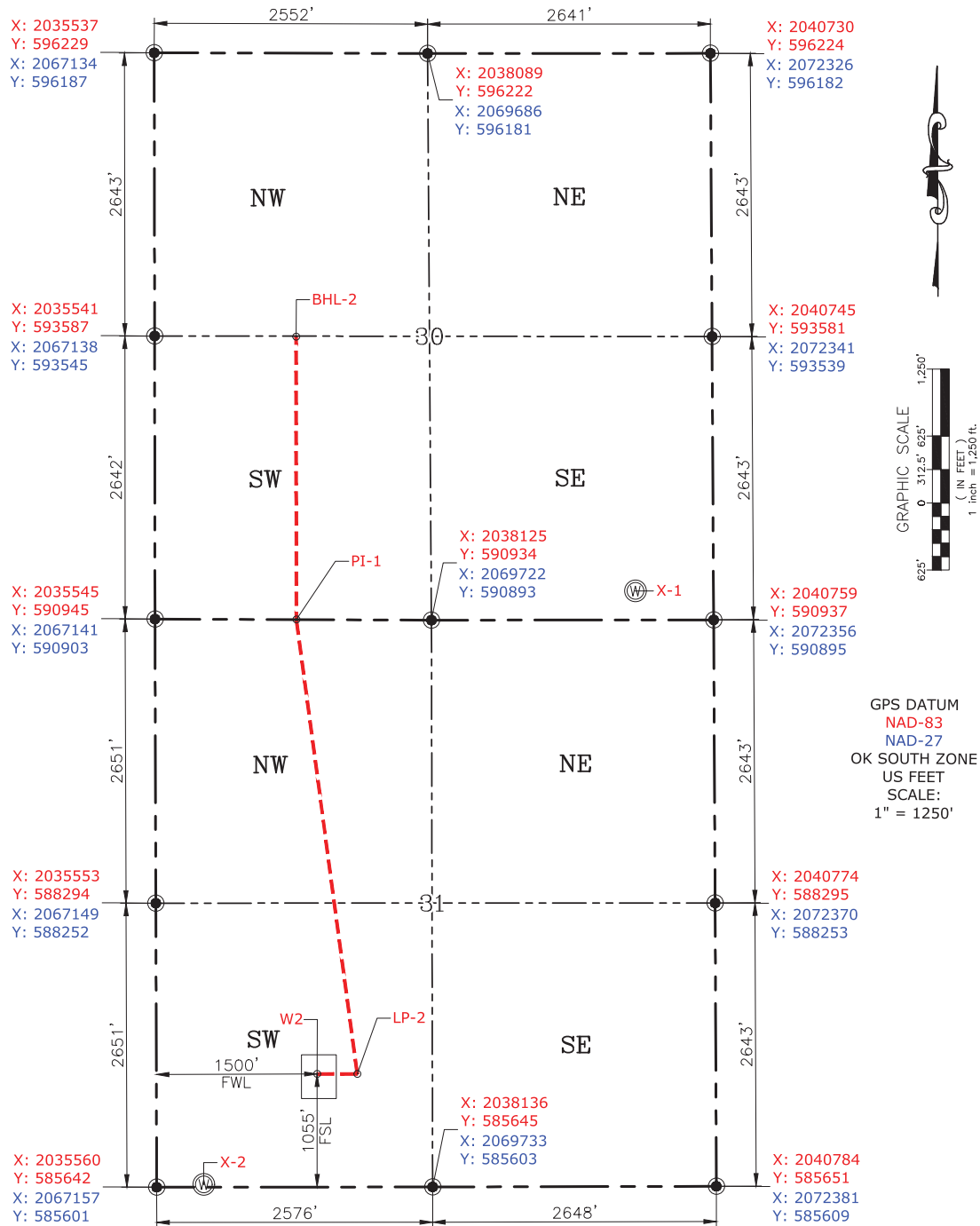
EXHIBIT: A (2 of 2)SHEET: 8.5x14SHL: 31-6N-5WBHL-2 30-6N-5W**PETRO LAND SERVICES SOUTH, LLC**10400 VINEYARD BLVD, SUITE C, OKLA. CITY, OKLA. 73120 * OFFICE (405) 212-3108
Certificate of Authorization No. 7318CONTINENTAL
RESOURCES, INC.
(OPERATOR)

GRADY

County Oklahoma

1055' FSL-1500' FWL Section 31 Township 6N Range 5W I.M.

WELL: DUNGAN 2-31-30XHW



CURRENT REV.: 2

Date Drawn: 3-25-19

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