

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

API NUMBER: 019 26337

Approval Date: 08/23/2019
Expiration Date: 02/23/2021

Horizontal Hole Oil & Gas
Multi Unit

PERMIT TO DRILL

WELL LOCATION: Sec: 16 Twp: 2S Rge: 2W County: CARTER
SPOT LOCATION: SW SW SW SW FEET FROM QUARTER: FROM SOUTH FROM WEST
SECTION LINES: 229 230

Lease Name: WAGNER Well No: 1-17-8XHW Well will be 229 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

JAMES K. LEWIS
PO BOX 220
RATLIFF CITY OK 73481

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

Name	Depth	Name	Depth
1 SYCAMORE	11083	6	
2 WOODFORD	11374	7	
3 HUNTON	11573	8	
4		9	
5		10	

Spacing Orders: No Spacing

Location Exception Orders:

Increased Density Orders:

Pending CD Numbers: 201903738
201903739
201903736
201903737

Special Orders:

Total Depth: 18878 Ground Elevation: 984 Surface Casing: 1500 Depth to base of Treatable Water-Bearing FM: 1130

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

PIT 1 INFORMATION

Type of Pit System: CLOSED Closed System Means Steel Pits

Type of Mud System: WATER BASED

Chlorides Max: 5000 Average: 3000

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: WELLINGTON

Approved Method for disposal of Drilling Fluids:

D. One time land application -- (REQUIRES PERMIT) PERMIT NO: 19-36860

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: WELLINGTON

HORIZONTAL HOLE 1

Sec 08 Twp 2S Rge 2W County CARTER

Spot Location of End Point: N2 NE NE SE

Feet From: SOUTH 1/4 Section Line: 2629

Feet From: EAST 1/4 Section Line: 330

Depth of Deviation: 10965

Radius of Turn: 409

Direction: 355

Total Length: 7271

Measured Total Depth: 18878

True Vertical Depth: 11573

End Point Location from Lease,
Unit, or Property Line: 330

Notes:

Category

Description

DEEP SURFACE CASING

7/30/2019 - 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

7/30/2019 - 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

7/30/2019 - G71 - PITS 1 & 2 - CLOSED SYSTEM=STEEL PITS PER OPERATOR REQUEST, PIT 2 - OBM RETURNED TO VENDOR, CUTTINGS PERMITTED PER DISTRICT

PENDING CD - 201903736

8/23/2019 - GC2 - (E.O.)(640) 8-2S-2W
EXT 557802 SCMR
EST WDFD, HNTN, OTHER
REC. 8-20-2019 (NORRIS)

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
PENDING CD - 201903737	8/23/2019 - GC2 - (E.O.)640 17-2S-2W EXT 557802 SCMR EST WDFD, HNTN, OTHER REC. 8-20-2019 (NORRIS)
PENDING CD - 201903738	8/23/2019 - GC2 - (E.O.) 8 & 17-2S-2W EST MULTIUNIT HORIZONTAL WELL X201903736 SCMR, WDFD, HNTN 8-2S-2W X201903737 SCMR, WDFD, HNTN 17-2S-2W (SCMR, HNTN ASSOCIATED COMMON SOURCE OF SUPPLY TO WDFD) 33% 8-2S-2W 67% 17-2S-2W CONTINENTAL RESOURCES, INC. REC 8-20-2019 (NORIS)
PENDING CD - 201903739	8/23/2019 - GC2 - (E.O.) 8 & 17-2S-2W X201903736 SCMR, WDFD, HNTN 8-2S-2W X201903737 SCMR, WDFD, HNTN 17-2S-2W SHL 150' FSL, 330' FEL 17-2S-2W*** COMPL. INT. (17-2S-2W) NCT 150' FSL, NCT 0' FNL, NCT 330' FEL COMPL. INT. (8-2S-2W) NCT 0' FSL, NCT 1,320' FNL, NCT 330' FEL NO OP. NAMED REC. 8-20-2019 (NORRIS) ***S/B 229' FSL. 230' FWL 16-2S-2W; WILL BE CORRECTED AT INTERIM HEARING PER ATTORNEY FOR OPERATOR

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 19)
 SHEET: 8.5x14
 SHL: 16-2S-2W
 BHL-1 8-2S-2W



COVER SHEET

CONTINENTAL RESOURCES, INC.

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

Section 16 Township 2S Range 2W I.M. Well: WAGNER 1-17-BXHW
 County CARTER State OK Well: --
 Operator CONTINENTAL RESOURCES, INC.

NAD-83

POINT	WELL NAME	NORTHING	EASTING	LATITUDE LONGITUDE	LATITUDE LONGITUDE	EXISTING ELEVATION	DESIGN ELEVATION
W1	WAGNER 1-17-BXHW	380282	2143083	34° 22' 36.71" -97° 25' 17.05"	34.378864 -97.421403	229' FSL / 230' FWL (SW/4 SEC 16)	982.72' / 983.96'
LP-1	LANDING POINT	380280	2142523	34° 22' 36.72" -97° 25' 23.73"	34.378867 -97.423259	229' FSL / 330' FEL (SE/4 SEC 17)	-- / --
BHL-1	BOTTOM HOLE LOCATION	387952	2142461	34° 23' 52.81" -97° 25' 23.95"	34.398003 -97.423320	2851' FNL / 330' FEL (NE/4 SEC 8)	-- / --
X-1	FITZGERALD #1	390439	2142610	34° 24' 17.41" -97° 25' 22.00"	34.404835 -97.422777	8-2S-2W; TD: UNKNOWN' 165' FNL / 165' FEL	-- / --
X-2	WILDCAT JIM UNIT #25 R.C. McKIDDY #4	388285	2141149	34° 23' 55.98" -97° 25' 39.58"	34.398884 -97.427862	8-2S-2W; TD: 3,300' 2,331' FNL / 1,640' FEL	-- / --
X-3	R.C. McKIDDY #4 (WILDCAT JIM #23)	388283	2140489	34° 23' 58.00" -97° 25' 47.48"	34.398880 -97.428550	8-2S-2W; TD: 2,710' 2,329' FNL / 2,300' FEL	-- / --
X-4	HIGGINS "A" (WILDCAT JIM UNIT #13)	389586	2139295	34° 24' 09.26" -97° 26' 01.82"	34.402671 -97.433783	8-2S-2W; TD: 3,010' 890' FNL / 1,791' FWL	-- / --
X-5	WILDCAT JIM UNIT #9 (HIGGINS "A" #8)	390238	2138488	34° 24' 15.85" -97° 26' 11.21"	34.404348 -97.436447	8-2S-2W; TD: 3,001' 344' FNL / 980' FWL	-- / --
X-6	WESTHEIMER #4 (WILDCAT JIM UNIT #18)	388897	2139780	34° 24' 02.31" -97° 25' 55.76"	34.400641 -97.432155	8-2S-2W; TD: 2,742' 1,692' FNL / 2,280' FWL	-- / --
X-7	S. WESTHEIMER #3	388282	2139828	34° 23' 56.02" -97° 25' 55.36"	34.398898 -97.432049	8-2S-2W; TD: 2,742' 2,327' FNL / 2,310' FWL	-- / --
X-8	WILDCAT JIM PENN UNIT #88 (HIGGINS "A-C" #5)	388929	2137840	34° 24' 02.73" -97° 26' 19.03"	34.400759 -97.438920	8-2S-2W; TD: 2,006' ±1,850' FNL / ±330' FWL	-- / --
X-9	O.M. KRIEGAR #9	386788	2142641	34° 23' 41.39" -97° 25' 21.88"	34.394830 -97.422744	8-2S-2W; TD: 1,540' 1,485' FSL / 165' FEL	-- / --
X-10	WILDCAT JIM UNIT #46 (O.M. KRIEGAR #7)	386953	2141163	34° 23' 43.01" -97° 25' 39.51"	34.395280 -97.427640	8-2S-2W; TD: 3,100' 1,650' FSL / 1,641' FEL	-- / --
X-11	WILDCAT JIM UNIT #69	385833	2141177	34° 23' 28.95" -97° 25' 39.43"	34.391653 -97.427819	8-2S-2W; TD: 3,022' 330' FSL / 1,844' FEL	-- / --
X-12	SIMON WESTHEIMER #1 WILDCAT JIM UNIT #1-44	386945	2139842	34° 23' 43.00" -97° 25' 55.27"	34.398277 -97.432018	8-2S-2W; TD: 2,781' 1,650' FSL / 2,310' FWL	-- / --
X-13	WILDCAT JIM UNIT #42 PIERCE "A" #6	386936	2138522	34° 23' 42.99" -97° 26' 11.02"	34.395274 -97.436394	8-2S-2W; TD: 3,014' 1,650' FSL / 990' FWL	-- / --
X-14	MARY V. DREW #3 (WJU #131)	385629	2140517	34° 23' 29.95" -97° 25' 47.31"	34.391651 -97.428807	8-2S-2W; TD: 3,788' 330' FSL / 2,304' FEL	-- / --
X-15	PIERCE "B" #6	386276	2138531	34° 23' 38.48" -97° 26' 10.95"	34.393480 -97.436376	8-2S-2W; TD: 2,614' 990' FSL / 990' FWL	-- / --
X-16	WILDCAT JIM UT (W.P. HIGGINS #2)	389577	2137834	34° 24' 09.14" -97° 26' 19.06"	34.402540 -97.438928	8-2S-2W; TD: 2,800' 1,002' FNL / 330' FWL	-- / --
X-17	WILDCAT JIM UT (W.P. HIGGINS "A" #5)	388920	2139160	34° 24' 02.57" -97° 26' 03.28"	34.400715 -97.434244	8-2S-2W; TD: 2,892' 1,866' FNL / 1,650' FWL	-- / --
X-18	WILDCAT JIM UT #21 (W.M.P. HIGGINS #1)	388218	2139166	34° 23' 55.63" -97° 26' 03.25"	34.398788 -97.434238	8-2S-2W; TD: 2,800' 2,368' FNL / 1,650' FWL	-- / --
X-19	WILDCAT JIM UNIT #20	388918	2138500	34° 24' 02.59" -97° 26' 11.16"	34.400721 -97.435432	8-2S-2W; TD: 2,000' 1,664' FNL / 990' FWL	-- / --
X-20	WILDCAT JIM UNIT #29	387609	2140498	34° 23' 49.53" -97° 25' 47.42"	34.397092 -97.429839	8-2S-2W; TD: 2,145' 2,310' FSL / 2,289' FEL	-- / --
X-21	O.M. KRIEGAR #5	387814	2141187	34° 23' 49.54" -97° 25' 39.17"	34.397084 -97.427948	8-2S-2W; TD: 3,108' 2,310' FSL / 1,608' FEL	-- / --
X-22	WILDCAT JIM UT #71 (M.V. DREW #4)	385842	2142497	34° 23' 29.96" -97° 25' 23.86"	34.391656 -97.423244	8-2S-2W; TD: 3,111' 330' FSL / 324' FEL	-- / --
X-23	MARY V. DREW #10	386488	2142653	34° 23' 36.12" -97° 25' 21.78"	34.393823 -97.422710	8-2S-2W; TD: 1,625' 1,155' FSL / 157' FEL	-- / --
X-24	PIERCE #3 (WILDCAT JIM UNIT #43)	386808	2138857	34° 23' 39.72" -97° 26' 07.05"	34.394388 -97.435291	8-2S-2W; TD: 2,800' 1,320' FSL / 1,320' FWL	-- / --
X-25	PIERCE "A" #5 (WILDCAT JIM UNIT #32)	387586	2138513	34° 23' 49.51" -97° 26' 11.08"	34.397087 -97.436412	8-2S-2W; TD: 3,006' 2,310' FSL / 990' FWL	-- / --
X-26	WILDCAT JIM UT #57 (MARY V. DREW #1)	386289	2140510	34° 23' 38.47" -97° 25' 47.34"	34.393485 -97.429818	8-2S-2W; TD: 2,800' 990' FSL / 2,302' FEL	-- / --
X-27	PIERCE "D" #1	387480	2138409	34° 23' 48.47" -97° 26' 12.34"	34.398796 -97.436760	8-2S-2W; TD: 12,059' 2,204' FSL / 884' FWL	-- / --
X-28	FITZGERALD #2	390248	2142448	34° 24' 15.53" -97° 25' 23.84"	34.404313 -97.423317	8-2S-2W; TD: 2,278' 355' FNL / 328' FEL	-- / --
X-29	FITZGERALD "B" #1	389614	2142580	34° 24' 09.25" -97° 25' 22.41"	34.402588 -97.422892	8-2S-2W; TD: UNKNOWN' ±990' FNL / ±200' FEL	-- / --
X-30	WILDCAT JIM UNIT #15 (T.B. ORR #1)	389583	2140475	34° 24' 09.08" -97° 25' 47.53"	34.402517 -97.429871	8-2S-2W; TD: 2,502' 1,009' FNL / 2,305' FEL	-- / --

Certificate of Authorization No. 7318

Date Staked: **--19
 Date Drawn: 7-19-19

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



REVISIONS				
No.	DATE	BY	DESCRIPTION	COMMENTS
00	7-19-19	HJG	ISSUED FOR APPROVAL	--

EXHIBIT: A (17 of 19)

SHEET: 8.5x14

SHL: 16-2S-2W

BHL-1 8-2S-2W

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)

CARTER

County Oklahoma

229' FSL-230' FWL Section 16 Township 2S Range 2W I.M.

WELL: WAGNER 1-17-8XHW

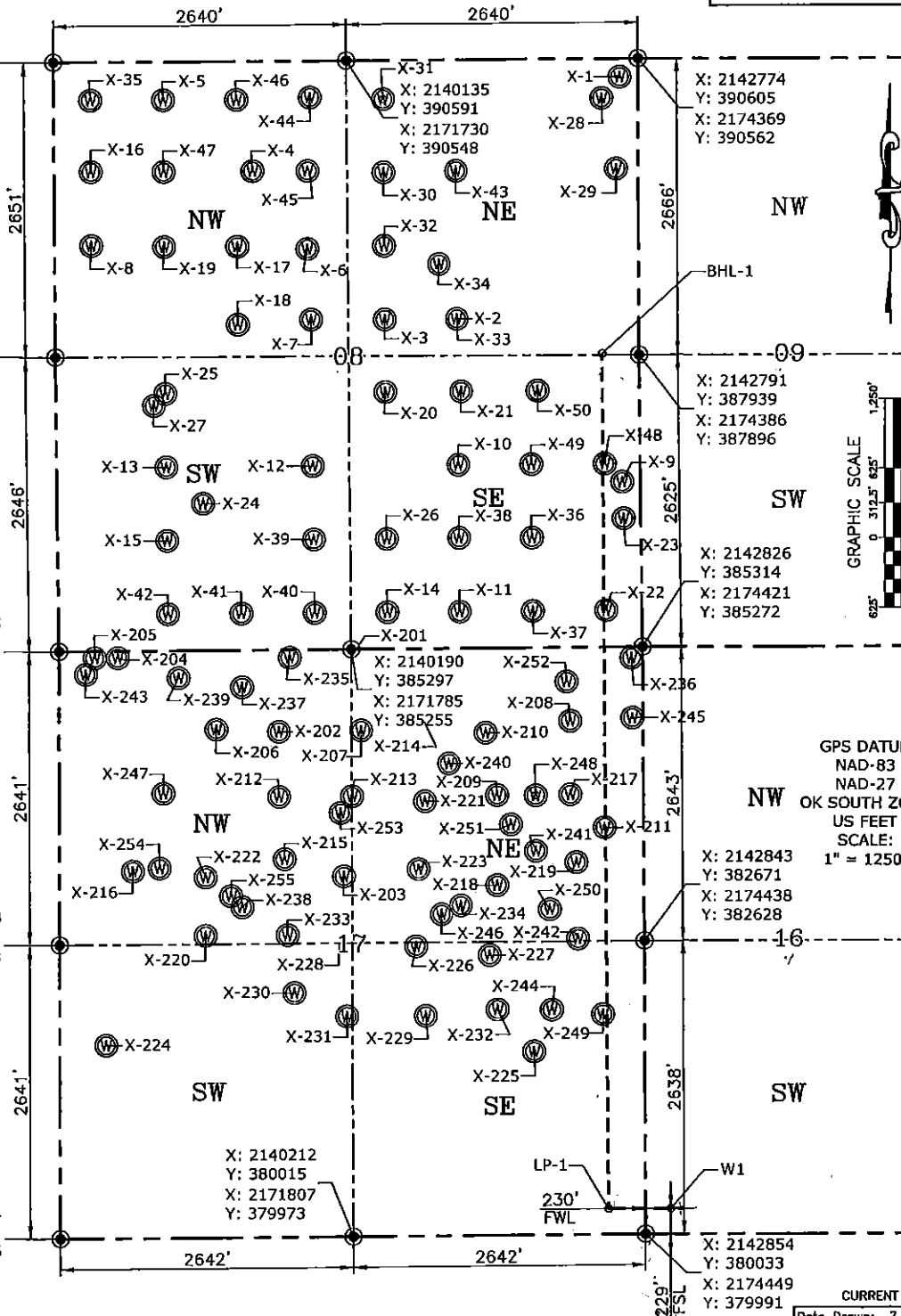
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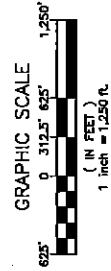
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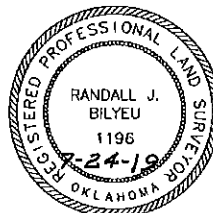
GPS DATUM
NAD-83
NAD-27
OK SOUTH ZONE
US FEET
SCALE:
1" = 1250'



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

CURRENT REV: 0
Date Drawn: 7-19-19