

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

API NUMBER: 049 25226

Approval Date: 10/10/2018

Expiration Date: 04/10/2020

Horizontal Hole

Oil & Gas

PERMIT TO DRILL

WELL LOCATION: Sec: 21 Twp: 3N Rge: 4W

County: GARVIN

SPOT LOCATION:

NW

SE

SE

SW

FEET FROM QUARTER: FROM

SOUTH

FROM

WEST

SECTION LINES:

360

2155

Lease Name: DICKSION

Well No: W8-21H

Well will be 360 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

MARIE GREGORY
20013 NORTH COUNTY ROAD 3000
LINDSAY OK 73052

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

Name	Depth	Name	Depth
1 WOODFORD	14168	6	
2		7	
3		8	
4		9	
5		10	

Spacing Orders: 602785

Location Exception Orders: 683521

Increased Density Orders: 681316

Pending CD Numbers:

Special Orders:

Total Depth: 19163

Ground Elevation: 1131

Surface Casing: 1500

Depth to base of Treatable Water-Bearing FM: 340

Under Federal Jurisdiction: No

Fresh Water Supply Well Drilled: No

Surface Water used to Drill: No

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: 18-35430

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 21 Twp 3N Rge 4W County GARVIN

Spot Location of End Point: N2 NE NE NW

Feet From: NORTH 1/4 Section Line: 30

Feet From: WEST 1/4 Section Line: 2310

Depth of Deviation: 13691

Radius of Turn: 487

Direction: 3

Total Length: 4706

Measured Total Depth: 19163

True Vertical Depth: 14168

End Point Location from Lease,
Unit, or Property Line: 30

Notes:

Category

Description

DEEP SURFACE CASING

9/21/2018 - 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

HYDRAULIC FRACTURING

9/21/2018 - 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

INCREASED DENSITY - 681316

10/9/2018 - G56 - 21-3N-4W
X602785 WDFD
4 WELLS
CONTINENTAL RESOURCES, INC.
8/10/2018

LOCATION EXCEPTION - 683521

10/9/2018 - G56 - (I.O.) 21-3N-4W
X602785 WDFD
165:10-3-28(C)(2)(B) MAY BE CLOSER THAN 600' TO ANOTHER WELL
COMPL. INT. NCT 150' FSL, NCT 150' FNL, NCT 1320' FEL, NCT 1320' FWL
CONTINENTAL RESOURCES, INC.
9/21/2018

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

049 25226 DICKSION W8-21H

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
MEMO	9/21/2018 - G71 - PITS 1 & 2 - CLOSED SYSTEM=STEEL PITS PER OPERATOR REQUEST, PIT 2 - OBM RETURNED TO VENDOR, CUTTINGS PERMITTED PER DISTRICT
SPACING - 602785	10/9/2018 - G56 - (640) 21-3N-4W VAC OTHERS EST OTHERS EXT OTHERS EXT 592945 WDFD, OTHERS
WATERSHED STRUCTURE	9/21/2018 - G71 - WELL WITHIN 1/2 MILE OF AN OKLAHOMA CONSERVATION COMMISSION WATERSHED STRUCTURE. CONTACT THE LOCAL CONSERVATION DISTRICT OFFICE AT (405) 238-7233 PRIOR TO DRILLING

EXHIBIT: A (1 of 5)
SHEET: 8.5x14
SHL: 21-3N-4W
BHL-3 21-3N-4W
BHL-7 21-3N-4W
BHL-8 21-3N-4W



COVER SHEET

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

Section 21 Township 3N Range 4W I.M. Well: DICKSION M3-21H
County GARVIN State OK Well: DICKSION W7-21H
Operator CONTINENTAL RESOURCES, INC. Well: DICKSION W8-21H

NAD-83						EXISTING ELEVATION	DESIGN ELEVATION
POINT	WELL NAME	NORTHING	EASTING	LATITUDE LONGITUDE	LATITUDE LONGITUDE		
W3	DICKSION M3-21H	501709	2080805	34° 42' 40.97" -97° 37' 34.71"	34.711379 -97.626309	360' FSL / 2095' FWL (SW/4 SEC 21)	1126.93
LP-3	LANDING POINT	501708	2080361	34° 42' 40.97" -97° 37' 40.04"	34.711381 -97.627789	360' FSL / 1650' FWL (SW/4 SEC 21)	--
BHL-3	BOTTOM HOLE LOCATION	506603	2080330	34° 43' 29.39" -97° 37' 40.19"	34.724831 -97.627830	30' FNL / 1650' FWL (NW/4 SEC 21)	--
W7	DICKSION W7-21H	501709	2080835	34° 42' 40.97" -97° 37' 34.35"	34.711379 -97.626209	360' FSL / 2125' FWL (SW/4 SEC 21)	1128.89
LP-7	LANDING POINT	501708	2080361	34° 42' 40.97" -97° 37' 40.04"	34.711381 -97.627789	360' FSL / 1650' FWL (SW/4 SEC 21)	--
BHL-7	BOTTOM HOLE LOCATION	506603	2080330	34° 43' 29.39" -97° 37' 40.19"	34.724831 -97.627830	30' FNL / 1650' FWL (NW/4 SEC 21)	--
W8	DICKSION W8-21H	501709	2080865	34° 42' 40.96" -97° 37' 33.99"	34.711379 -97.626109	360' FSL / 2155' FWL (SW/4 SEC 21)	1130.14
LP-8	LANDING POINT	501710	2081021	34° 42' 40.96" -97° 37' 32.13"	34.711378 -97.625593	360' FSL / 2310' FWL (SW/4 SEC 21)	--
BHL-8	BOTTOM HOLE LOCATION	506603	2080990	34° 43' 29.37" -97° 37' 32.28"	34.724824 -97.625633	30' FNL / 2310' FWL (NW/4 SEC 21)	--
X-1	WHITE #1-1-21	504653	2083319	34° 43' 09.99" -97° 37' 04.47"	34.719441 -97.617909	21-3N-4W:SE4NE4 TD: 9,322' 660' FSL / 1,980' FWL	--
X-2	GREGORY #1H-28	501646	2079371	34° 42' 40.39" -97° 37' 51.90"	34.711221 -97.631083	21-3N-4W:S2S2SW4SW4 TD: 19,258' 300' FSL / 660' FWL	--
X-3	DICKSION #1-21H	501681	2081531	34° 42' 40.66" -97° 37' 26.02"	34.711294 -97.623894	21-3N-4W:W2SW4SW4SE4 TD: 18,796' 300' FSL / 2,437' FEL	--
X-4	HOLINSWORTH 3H-9X	506054	2081666	34° 43' 23.91" -97° 37' 24.21"	34.723309 -97.623393	21-3N-4W:SW4NW4NW4NE4 TD: 24,503' 593' FNL / 2,328' FEL	--
X-5	HOLINSWORTH 4H-9X	506026	2081638	34° 43' 23.63" -97° 37' 24.55"	34.723232 -97.623486	21-3N-4W:SW4NW4NW4NE4 TD: 24,935' 607' FNL / 2,342' FEL	--
X-6	HOLINSWORTH 2H-9X	506040	2081652	34° 43' 23.77" -97° 37' 24.38"	34.723270 -97.623439	21-3N-4W:SW4NW4NW4NE4 TD: 24,571' 579' FNL / 2,314' FEL	--
X-7	HOLINSWORTH 7H-9X	504999	2078985	34° 43' 13.57" -97° 37' 56.37"	34.720436 -97.632326	21-3N-4W:SW4NW4SW4NW4 TD: 24,951' 1,635' FNL / 295' FWL	--
X-8	HOLINSWORTH 8H-9X	505019	2078985	34° 43' 13.77" -97° 37' 56.37"	34.720491 -97.632326	21-3N-4W:SW4NW4SW4NW4 TD: 25,054' 1,615' FNL / 295' FWL	--
X-9	HOLINSWORTH 5H-9X	505483	2079977	34° 43' 18.33" -97° 37' 44.47"	34.721758 -97.629019	21-3N-4W:SE4SE4NW4NW4 TD: 24,989' 1,150' FNL / 1,290' FWL	--
X-10	HOLINSWORTH 6H-9X	505503	2079977	34° 43' 18.53" -97° 37' 44.47"	34.721813 -97.629019	21-3N-4W:SE4SE4NW4NW4 TD: 24,096' 1,130' FNL / 1,290' FWL	--
X-11	DICKSION W2-21H	501731	2079796	34° 42' 41.22" -97° 37' 46.80"	34.711450 -97.629667	21-3N-4W:NE4SE4SW4SE4 TD: 18,682' 384' FSL / 1,558' FEL	--
X-12	DICKSION W3-21H	501725	2083690	34° 42' 41.02" -97° 37' 00.16"	34.711394 -97.616710	21-3N-4W:NE4SE4SE4SE4 TD: 18,733' 370' FSL / 308' FEL	--
X-13	DICKSION W4-21H	501725	2083690	34° 42' 41.02" -97° 37' 00.16"	34.711394 -97.616710	21-3N-4W:NE4SE4SE4SE4 TD: 18,913' 370' FSL / 308' FEL	--
X-14	DICKSION M1-21H	501732	2082440	34° 42' 41.13" -97° 37' 15.13"	34.711425 -97.620869	21-3N-4W:NE4SE4SW4SE4 TD: 18,708' 379' FSL / 1,558' FEL	--
X-15	DICKSION S4-21H	501725	2083410	34° 42' 41.02" -97° 37' 03.51"	34.711396 -97.617642	21-3N-4W:SW4SE4SE4SE4 TD: 16,326' 370' FSL / 588' FEL	--

Certificate of Authorization No. 7318

Date Staked: **--**--18
Date Drawn: 07-17-18



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

REVISIONS				
No.	DATE	BY	DESCRIPTION	COMMENTS
00	07-17-18	MJL	ISSUED FOR APPROVAL	--

EXHIBIT: A (5 of 5)
SHEET: 8.5x14
SHL: 21-3N-4W
BHL-8 21-3N-4W

PETRO LAND SERVICES SOUTH, LLC

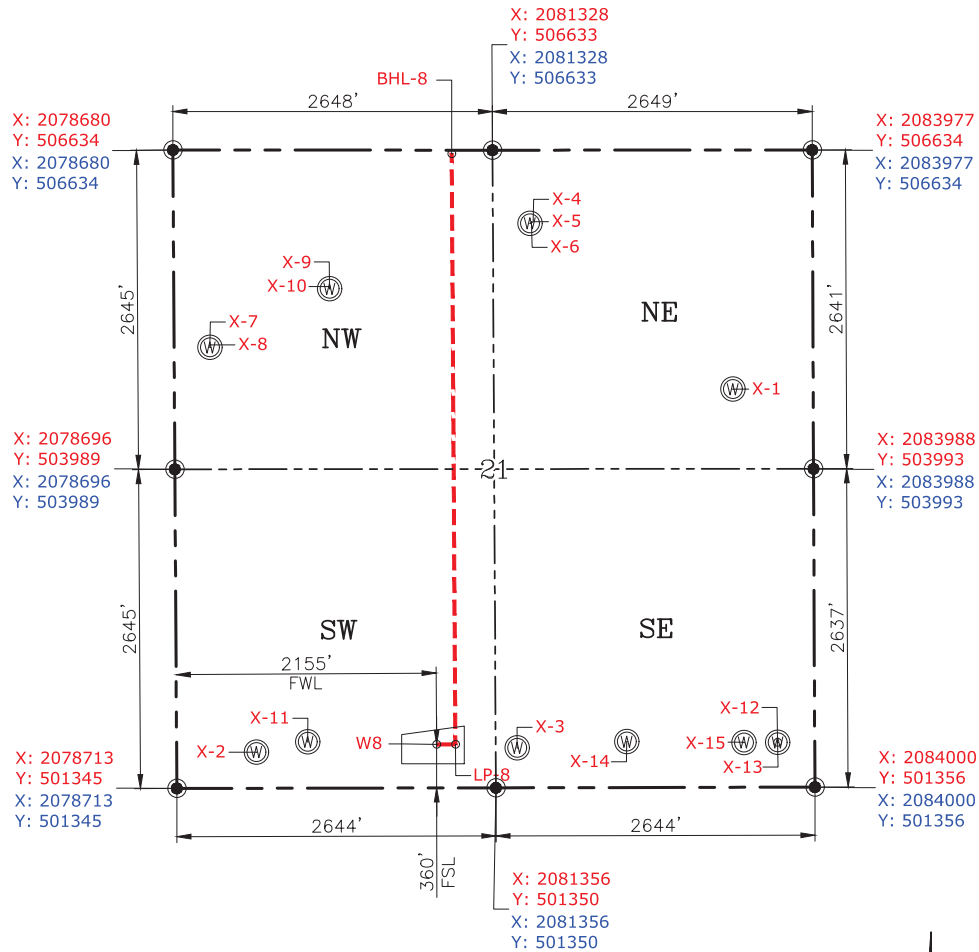
10400 VINEYARD BLVD. SUITE C, OKLA. CITY, OKLA. 73120 * OFFICE (405) 212-3108
Certificate of Authorization No. 7318



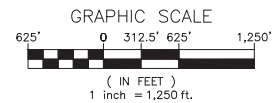
CONTINENTAL
RESOURCES, INC
(OPERATOR)

GARVIN County Oklahoma
360' FSL-2155' FWL Section 21 Township 3N Range 4W I.M.

WELL: DICKSION W8-21H



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.

Date Staked: **--**--18
Date Drawn: 07-17-18

CURRENT REV.: 0



Randall J. Bilyeu
Oklahoma PLS No.1196 DATE