

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

API NUMBER: 051 24363

Approval Date: 05/18/2018

Expiration Date: 11/18/2018

Horizontal Hole Oil & Gas

PERMIT TO DRILL

WELL LOCATION: Sec: 16 Twp: 7N Rge: 6W

County: GRADY

SPOT LOCATION: ☐ SW ☐ SW ☐ SW ☐ SE

FEET FROM QUARTER: FROM SOUTH FROM EAST

SECTION LINES: 261 2420

Lease Name: RAMSEY TRUST

Well No: 3-16-9-4XHS

Well will be 261 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

PERRY & VIRGINIA RAMSEY REVOCABLE TRUST  
2182 COUNTY STREET 2900  
CHICKASHA OK 73018

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

	Name	Depth	Name	Depth
1	SPRINGER	12402	6	
2	MISSISSIPPIAN	13387	7	
3	MISSISSIPPI LIME	13464	8	
4			9	
5			10	

Spacing Orders: 619179  
156047  
172459

Location Exception Orders:

Increased Density Orders:

Pending CD Numbers: 201803003  
201803004  
201802940  
201802939

Special Orders:

Total Depth: 25238

Ground Elevation: 1089

**Surface Casing: 1500**

Depth to base of Treatable Water-Bearing FM: 540

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: 18-34286

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 04 Twp 7N Rge 6W County GRADY

Spot Location of End Point: NW NW NW SE

Feet From: SOUTH 1/4 Section Line: 2500

Feet From: EAST 1/4 Section Line: 2420

Depth of Deviation: 12020

Radius of Turn: 382

Direction: 360

Total Length: 12618

Measured Total Depth: 25238

True Vertical Depth: 13464

End Point Location from Lease,  
Unit, or Property Line: 2420

Notes:

Category

Description

DEEP SURFACE CASING

5/11/2018 - 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

5/11/2018 - 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](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

5/11/2018 - G71 - PIT 1 & 2 - CLOSED SYSTEM=STEEL PITS (REQUIRED - BITTER CREEK); PIT 2 - OBM TO VENDOR, OBM CUTTINGS PER DISTRICT

PENDING CD - 201802939

5/17/2018 - G75 - 16-7N-6W  
X172459 SPRG  
2 WELLS  
CONTINENTAL RESOURCES, INC.  
REC 5-7-2018 (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.

051 24363 RAMSEY TRUST 3-16-9-4XHS

Category	Description
PENDING CD - 201802940	5/17/2018 - G75 - 9-7N-6W X172459 SPRG 2 WELLS CONTINENTAL RESOURCES, INC. REC 5-7-2018 (NORRIS)
PENDING CD - 201803003	5/17/2018 - G75 - (I.O.) 16, 9 & 4-7N-6W EST MULTIUNIT HORIZONTAL WELL X156047 MSSLM 16 & 9-7N-6W X172459 SPRG 16 & 9-7N-6W X619179 SPRG, MSSP 4-7N-6W (MSSLM, MSSP ADJACENT COMMON SOURCES OF SUPPLY TO SPRG) 42% 16-7N-6W 42% 9-7N-6W 16% 4-7N-6W CONTINENTAL RESOURCES, INC. REC 5-7-2018 (NORRIS)
PENDING CD - 201803004	5/17/2018 - G75 - (I.O.) 16, 9 & 4-7N-6W X156047 MSSLM 16 & 9-7N-6W X172459 SPRG 16 & 9-7N-6W X619179 SPRG, MSSP 4-7N-6W X165:10-3-28(C)(2)(B) MAY BE CLOSER THAN 600' TO PROPOSED WELL COMPL. INT. (16-7N-6W) NCT 150' FSL, NCT 0' FNL, NCT 330' FEL COMPL. INT. (9-7N-6W) NCT 0' FSL, NCT 0' FNL, NCT 330' FEL COMPL. INT. (4-7N-6W) NCT 0' FSL, NCT 1320' FNL, NCT 330' FEL CONTINENTAL RESOURCES, INC. REC 5-7-2018 (NORRIS)
SPACING - 156047	5/17/2018 - G75 - (640) 9 & 16-7N-6W EXT OTHERS EXT 151109 MSSLM, OTHERS
SPACING - 172459	5/17/2018 - G75 - (640) 9 & 16-7N-6W VAC OTHERS EXT OTHERS EXT 75509/164772 SPRG, OTHERS
SPACING - 619179	5/17/2018 - G75 - (640) 4-7N-6W VAC 190267 MSSLM, OTHERS EXT OTHERS EST SPRG, MSSP, OTHERS

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 2)  
SHEET: 8.5x11  
SHL: 16-07N-06W  
BHL-3 04-07N-06W



API 051-24363

## 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 07N Range 06W I.M.

Well: RAMSEY TRUST 3-16-9-4XHS

County GRADY State OK

Well: --

Operator CONTINENTAL RESOURCES, INC.

#### NAD-83

NAD-83								
POINT	WELL NAME	NORTHING	EASTING	LATITUDE LONGITUDE	LATITUDE LONGITUDE		EXISTING ELEVATION	DESIGN ELEVATION
W3	RAMSEY TRUST 3-16-9-4XHS	633447	2017215	35° 04' 25.70" -97° 50' 13.90"	35.073807 -97.837195	261' FSL / 2,420' FEL (SE/4 SEC 16)	1089.28	1090.13
LP-3	LANDING POINT	633642	2017214	35° 04' 27.63" -97° 50' 13.91"	35.074342 -97.837197	471' FSL / 2420' FEL (SE/4 SEC 16)	--	--
BHL-3	BOTTOM HOLE LOCATION	646247	2017157	35° 06' 32.31" -97° 50' 14.36"	35.108975 -97.837321	2500' FSL / 2420' FEL (SE/4 SEC 04)	--	--
X-1	DESKIN #1-9	640297	2018288	35° 05' 33.44" -97° 50' 00.85"	35.092622 -97.833571	9-7N-6W:N2S2N2SE4   TD: 7,900'   1,830' FSL / 1,320' FWL	--	--
X-2	ODOM #1-4-33XH	641377	2015917	35° 05' 44.15" -97° 50' 29.37"	35.095598 -97.841492	9-7N-6W:NW4NW4NE4NW4   TD: 23,523'   270' FNL / 1,600' FWL	--	--
X-3	PARNELL #16-1	637142	2015658	35° 05' 02.27" -97° 50' 32.57"	35.083964 -97.842381	16-7N-6W:NW4   TD: 15,290'   1,320' FSL / 1,320' FWL	--	--
X-4	YELL #1-16-9XH	633410	2016635	35° 04' 25.34" -97° 50' 20.88"	35.073707 -97.839132	16-7N-6W:SW4SE4SE4SW4   TD: 23,905'   225' FSL / 2,285' FWL	--	--
X-5	RAMSEY TRUST #1-16-9XH	633360	2018785	35° 04' 24.81" -97° 49' 55.01"	35.073559 -97.831948	16-7N-6W:SE4SW4SE4SE4   TD: 20,491'   170' FSL / 850' FEL	--	--

#### NAD-27

NAD-27								
POINT	WELL NAME	NORTHING	EASTING	LATITUDE LONGITUDE	LATITUDE LONGITUDE		EXISTING ELEVATION	DESIGN ELEVATION
W3	RAMSEY TRUST 3-16-9-4XHS	633405	2048812	35° 04' 25.47" -97° 50' 12.75"	35.073741 -97.836876	261' FSL / 2,420' FEL (SE/4 SEC 16)	1089.28	1090.13
LP-3	LANDING POINT	633600	2048811	35° 04' 27.40" -97° 50' 12.76"	35.074277 -97.836878	471' FSL / 2420' FEL (SE/4 SEC 16)	--	--
BHL-3	BOTTOM HOLE LOCATION	646205	2048754	35° 06' 32.07" -97° 50' 13.21"	35.108910 -97.837001	2500' FSL / 2420' FEL (SE/4 SEC 04)	--	--
X-1	DESKIN #1-9	640255	2049885	35° 05' 33.21" -97° 49' 59.70"	35.092557 -97.833251	9-7N-6W:N2S2N2SE4   TD: 7,900'   1,830' FSL / 1,320' FWL	--	--
X-2	ODOM #1-4-33XH	641335	2047514	35° 05' 43.92" -97° 50' 28.22"	35.095533 -97.841172	9-7N-6W:NW4NW4NE4NW4   TD: 23,523'   270' FNL / 1,600' FWL	--	--
X-3	PARNELL #16-1	637100	2047254	35° 05' 02.03" -97° 50' 31.42"	35.083899 -97.842061	16-7N-6W:NW4   TD: 15,290'   1,320' FSL / 1,320' FWL	--	--
X-4	YELL #1-16-9XH	633368	2048232	35° 04' 25.11" -97° 50' 19.73"	35.073641 -97.838813	16-7N-6W:SW4SE4SE4SW4   TD: 23,905'   225' FSL / 2,285' FWL	--	--
X-5	RAMSEY TRUST #1-16-9XH	633318	2050382	35° 04' 24.58" -97° 49' 53.86"	35.073493 -97.831629	16-7N-6W:SE4SW4SE4SE4   TD: 20,491'   170' FSL / 850' FEL	--	--

Certificate of Authorization No. 7318

Date Staked: 03-30-18  
Date Drawn: 03-30-18



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

#### REVISIONS

No.	DATE	BY	DESCRIPTION	COMMENTS
00	03-30-18	MJL	ISSUED FOR APPROVAL	--
01	05-11-18	MJL	UPDATED BHL CALL OUT	THIS SHEET ONLY

EXHIBIT: A (2 of 2)  
SHEET: 8.5x14  
SHL: 16-07N-06W  
BHL-3 04-07N-06W

**PETRO LAND SERVICES SOUTH, LLC**

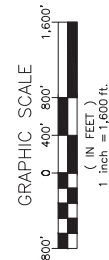
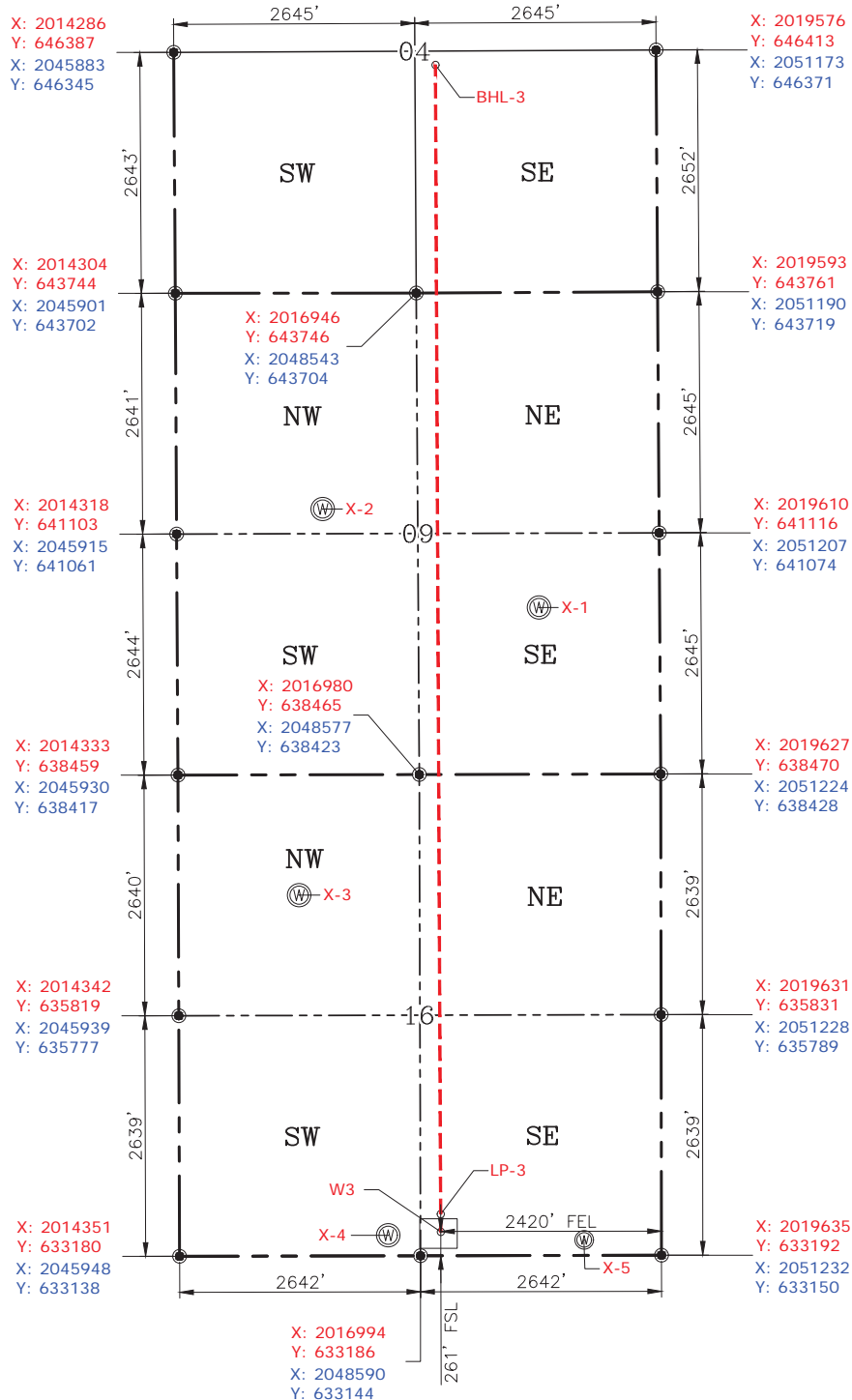
10400 VINEYARD BLVD, SUITE C, OKLA. CITY, OKLA. 73120 \* OFFICE (405) 212-3108  
Certificate of Authorization No. 7318



CONTINENTAL  
RESOURCES, INC  
(OPERATOR)

GRADY \_\_\_\_\_ County Oklahoma  
261' FSL-2,420' FEL Section 16 Township 07N Range 06W I.M.

WELL: RAMSEY TRUST  
3-16-9-4XHS



GPS DATUM  
NAD-83  
NAD-27  
OK SOUTH ZONE  
US FEET  
SCALE:  
1" = 1600'

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: 03-30-18  
Date Drawn: 03-30-18



*Randall J. Bilyeu*

Oklahoma PLS No.1196 DATE