

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

API NUMBER: 051 24362 A

Approval Date: 05/18/2018  
Expiration Date: 11/18/2018

Horizontal Hole Oil & Gas  
Multi Unit

Amend reason: CHANGE TOTAL DEPTH & BOTTOM-HOLE LOCATION; UPDATE ORDERS

AMEND PERMIT TO DRILL

WELL LOCATION: Sec: 21 Twp: 7N Rge: 6W

County: GRADY

SPOT LOCATION:  NW  NW  NW  NW

FEET FROM QUARTER: FROM NORTH FROM WEST

SECTION LINES: 238 202

Lease Name: RAMSEY TRUST

Well No: 2-16-9-4XHS

Well will be 202 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

JACK D. RAMSEY  
9440 E. HIDDEN HILL LANE  
LONE TREE CO 80124

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

	Name	Depth	Name	Depth
1	SPRINGER	12633	6	
2	MISSISSIPPIAN	13387	7	
3	MISSISSIPPI LIME	13464	8	
4			9	
5			10	

Spacing Orders: 619179  
156047  
172459  
685081

Location Exception Orders: 687873

Increased Density Orders: 680836  
682112  
683975

Pending CD Numbers:

Special Orders:

Total Depth: 28401

Ground Elevation: 1087

**Surface Casing: 1500**

Depth to base of Treatable Water-Bearing FM: 550

Under Federal Jurisdiction: No

Fresh Water Supply Well Drilled: No

Surface Water used to Drill: Yes

PIT 1 INFORMATION

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

Approved Method for disposal of Drilling Fluids:

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

PERMIT NO: 18-34285

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: NE NE NW NW

Feet From: NORTH 1/4 Section Line: 30

Feet From: WEST 1/4 Section Line: 1100

Depth of Deviation: 12129

Radius of Turn: 382

Direction: 10

Total Length: 15672

Measured Total Depth: 28401

True Vertical Depth: 13464

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

Additional Surface Owner	Address	City, State, Zip
STEPHEN P. RAMSEY	600 MEADOWVIEW CIRCLE	COPPELL, TX 75019
DORSEY P. RAMSEY	513 CATTLEBURY DRIVE	TUTTLE, OK 73089

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)

INCREASED DENSITY - 680836

1/25/2019 - G75 - 4-7N-6W  
X619179 SPRG  
1 WELL  
CONTINENTAL RESOURCES, INC.  
8-1-2018

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 24362 RAMSEY TRUST 2-16-9-4XHS

Category	Description
INCREASED DENSITY - 682112	1/25/2019 - G75 - 9-7N-6W X172459 SPRG 2 WELLS CONTINENTAL RESOURCES, INC. 8-27-2018
INCREASED DENSITY - 683975	1/25/2019 - G75 - 16-7N-6W X172459 SPRG 2 WELLS CONTINENTAL RESOURCES, INC. 9-28-2018
LOCATION EXCEPTION - 687873	2/14/2019 - G75 - (I.O.) X156047 MSSLM 16 & 9-7N-6W X172459 SPRG 16 & 9-7N-6W X619179 SPRG, MSSP 4-7N-6W SHL (21-7N-6W) NCT 200' FNL, NCT 400' FWL ** COMPL. INT. (16-7N-6W) NCT 150' FSL, NCT 0' FNL, NCT 330' FWL COMPL. INT. (9-7N-6W) NCT 0' FSL, NCT 0' FNL, NCT 330' FWL COMPL. INT. (4-7N-6W) NCT 0' FSL, NCT 150' FNL, NCT 330' FWL CONTINENTAL RESOURCES, INC. 12-7-2018
	** ITD HAS SHL AS 238' FNL, 202' FWL 21-7N-6W; TO BE CORRECTED AT HEARING FOR FINAL ORDER LOCATION EXCEPTION PER OPERATOR
MEMO	5/11/2018 - G71 - PIT 1 & 2 - CLOSED SYSTEM=STEEL PITS (REQUIRED - BITTER CREEK); PIT 2 - OBM TO VENDOR, OBM CUTTINGS PER DISTRICT
SPACING - 156047	5/16/2018 - G75 - (640) 9 & 16-7N-6W EXT OTHERS EXT 151109 MSSLM, OTHERS
SPACING - 172459	5/16/2018 - G75 - (640) 9 & 16-7N-6W VAC OTHERS EXT OTHERS EXT 75509/164772 SPRG, OTHERS
SPACING - 619179	5/16/2018 - G75 - (640) 4-7N-6W VAC 190267 MSSLM, OTHERS EXT OTHERS EST SPRG, MSSP, OTHERS
SPACING - 685081	1/25/2019 - 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) 33% 16-7N-6W 34% 9-7N-6W 33% 4-7N-6W CONTINENTAL RESOURCES, INC. 10-17-2018

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: 21-07N-06W  
 BHL-2 04-07N-06W



API 051-24362 A

## 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 07N Range 06W I.M.

Well: RAMSEY TRUST 2-16-9-4XHS

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	RAMSEY TRUST 2-16-9-4XHS	632942	2014554	35° 04' 20.75" -97° 50' 45.93"	35.072429 -97.846091	238' FNL / 202' FWL (NW/4 NW/4 SEC 21)	1086.90	1087.40
LP-2	LANDING POINT	633232	2015451	35° 04' 23.60" -97° 50' 35.13"	35.073223 -97.843092	50' FSL / 1100' FWL (SW/4 SEC 16)	--	--
BHL-2	BOTTOM HOLE LOCATION	649010	2015369	35° 06' 59.66" -97° 50' 35.82"	35.116572 -97.843283	30' FNL / 1100' FWL (NW/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						EXISTING ELEVATION	DESIGN ELEVATION	
POINT	WELL NAME	NORTHING	EASTING	LATITUDE LONGITUDE	LATITUDE LONGITUDE			
W2	RAMSEY TRUST 2-16-9-4XHS	632900	2046151	35° 04' 20.51" -97° 50' 44.77"	35.072364 -97.845771	238' FNL / 202' FWL (NW/4 NW/4 SEC 21)	1086.90	1087.40
LP-2	LANDING POINT	633190	2047048	35° 04' 23.37" -97° 50' 33.98"	35.073158 -97.842772	50' FSL / 1100' FWL (SW/4 SEC 16)	--	--
BHL-2	BOTTOM HOLE LOCATION	648968	2046966	35° 06' 59.43" -97° 50' 34.67"	35.116507 -97.842963	30' FNL / 1100' FWL (NW/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	09-07-18	MJL	EXTENDED DRILL PATH	REV. EXHIBITS: A

EXHIBIT: A (2 of 2)  
 SHEET: 8.5x14  
 SHL: 21-07N-06W  
 BHL-2: 04-07N-06W

**PETRO LAND SERVICES SOUTH, LLC**

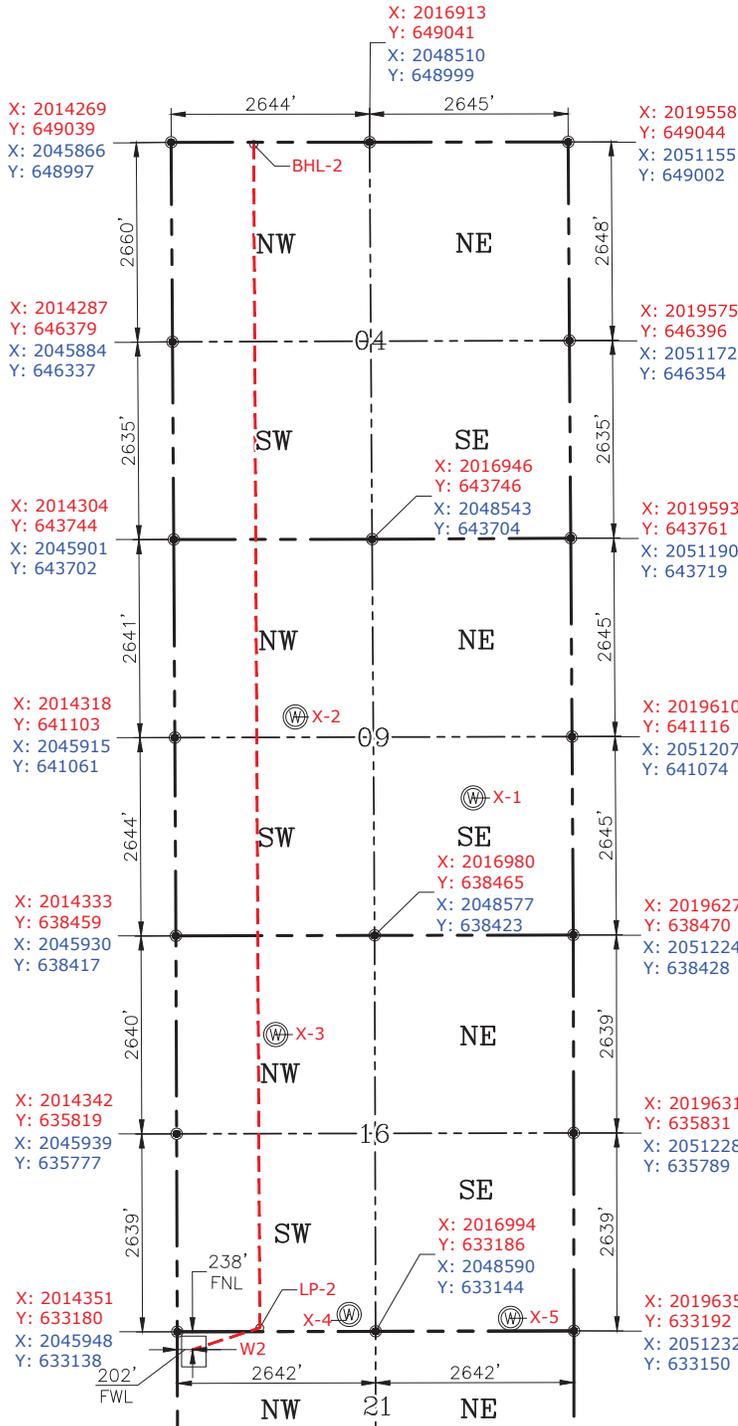
10400 VINEYARD BLVD, SUITE C, OKLA. CITY, OKLA. 73120 \* OFFICE (405) 212-3108  
 Certificate of Authorization No. 7318



CONTINENTAL  
 RESOURCES, INC  
 (OPERATOR)

GRADY \_\_\_\_\_ County Oklahoma  
 238' FNL-202' FWL Section 21 Township 07N Range 06W I.M.

WELL: RAMSEY TRUST  
 2-16-9-4XHS



GPS DATUM  
 NAD-83  
 NAD-27  
 OK SOUTH ZONE  
 US FEET  
 SCALE:  
 1" = 2,000'

REV1: 09-07-18

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

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