

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

API NUMBER: 043 23587

Approval Date: 01/11/2018

Expiration Date: 07/11/2018

Horizontal Hole

Oil & Gas

PERMIT TO DRILL

WELL LOCATION: Sec: 22 Twp: 16N Rge: 15W

County: DEWEY

SPOT LOCATION:

NE

SW

SW

SW

FEET FROM QUARTER: FROM

SOUTH

FROM

WEST

SECTION LINES:

335

433

Lease Name: KARMIN

Well No: 1-22-15XHW

Well will be 335 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

FRANS FAMILY FARMS LLC
1118 BLUE WISTER COVE
EDMOND OK 73013

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

Name	Depth	Name	Depth
1 WOODFORD	13202	6	
2		7	
3		8	
4		9	
5		10	

Spacing Orders: 657637

Location Exception Orders:

Increased Density Orders:

Pending CD Numbers: 201708145
201708142
201708144

Special Orders:

Total Depth: 23233

Ground Elevation: 1754

Surface Casing: 1500

Depth to base of Treatable Water-Bearing FM: 240

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: 8000 Average: 5000

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: RUSH SPRINGS

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

PERMIT NO: 18-33710

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: RUSH SPRINGS

HORIZONTAL HOLE 1

Sec 15 Twp 16N Rge 15W County DEWEY

Spot Location of End Point: NE NW NW NW

Feet From: NORTH 1/4 Section Line: 30

Feet From: WEST 1/4 Section Line: 380

Depth of Deviation: 12820

Radius of Turn: 382

Direction: 359

Total Length: 9813

Measured Total Depth: 23233

True Vertical Depth: 13202

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

Notes:

Category

Description

DEEP SURFACE CASING

1/10/2018 - 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

1/10/2018 - 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

INTERMEDIATE CASING

1/10/2018 - G71 - DUE TO THE KNOWN POTENTIAL RISK OF ENCOUNTERING AN OVER-PRESSURED ZONE IN THE MORROW SERIES IN THIS AREA, THE TECHNICAL MANAGER RECOMMENDS SETTING AN INTERMEDIATE STRING OF CASING IMMEDIATELY ABOVE THE MORROW SERIES

MEMO

1/10/2018 - G71 - PIT 1 & 2 - CLOSED SYSTEM=STEEL PITS PER OPERATOR REQUEST; PIT 2 - OBM TO VENDOR, OBM CUTTINGS PER DISTRICT

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.

043 23587 KARMIN 1-22-15XHW

Category	Description
PENDING CD - 201708142	1/11/2018 - G75 - (I.O.) 22 & 15-16N-15W XOTHER X657637 WDFD, OTHERS 22-16N-15W X201708144 WDFD, OTHER 15-16N-15W SHL (22-16N-15W) NCT 0' FSL, NCT 0' FWL COMPL. INT. (22-16N-15W) NCT 150' FSL, NCT 0' FNL, NCT 330' FWL COMPL. INT. (15-16N-15W) NCT 0' FSL, NCT 150' FNL, NCT 330' FWL CONTINENTAL RESOURCES, INC. REC 1-2-2018 (MILLER)
PENDING CD - 201708144	1/11/2018 - G75 - (640) 15-16N-15W VAC OTHERS EXT 657637 WDFD, OTHER REC 1-2-2018 (MILLER)
PENDING CD - 201708145	1/11/2018 - G75 - (I.O.) 22 & 15-16N-15W EST MULTIUNIT HORIZONTAL WELL XOTHER X657637 WDFD, OTHERS 22-16N-15W X201708144 WDFD, OTHER 15-16N-15W 50% 22-16N-15W 50% 15-16N-15W CONTINENTAL RESOURCES, INC. REC 1-2-2018 (MILLER)
SPACING - 657637	1/11/2018 - G75 - (640) 22-16N-15W VAC OTHERS EXT OTHER EST OTHERS EXT 584497 WDFD, OTHERS

EXHIBIT: A (1 of 2)
SHEET: 8.5x11
SHL: 22-16N-15W
BHL: 15-16N-15W



API 043-23587

COVER SHEET

CONTINENTAL RESOURCES, INC.

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

Section 22 Township 16N Range 15W I.M.

Well: KARMIN 1-22-15XHW

County DEWEY State OK

Well: _____

Operator CONTINENTAL RESOURCES, INC.

Well: _____

NAD-83

POINT	NAME	NORTHING	EASTING	ELEVATION	LATITUDE LONGITUDE	LATITUDE LONGITUDE		DESIGN ELEVATION
W1	KARMIN 1-22-15XHW	307443	1734185	1746.18	N35°50'31.07" W98°47'26.06"	N35.841964° W98.790573°	335' FSL / 433' FWL (SW/4 SEC 22)	1753.75
L.P.	LANDING POINT	307514	1734132	--	N35°50'31.76" W98°47'26.71"	N35.842157° W98.790752°	405' FSL / 380' FWL (SW/4 SEC 22)	--
B.H.L.	BOTTOM HOLE LOCATION	317544	1734206	--	N35°52'10.96" W98°47'26.81"	N35.869711° W98.790780°	30' FNL / 380' FWL (NW/4 SEC 15)	--
X1	DIDDIER-1-15	314186	1735951	--	N35°51'37.89" W98°47'05.28"	N35.860525° W98.784799°	15-16N-15W:NW4SE4NE4SW4 TD: 10,700' 1,860' FSL / 2,150' FWL	--
X2	MCNEILL-1	315611	1734471	--	N35°51'51.87" W98°47'23.39"	N35.864408° W98.789831°	15-16N-15W:CSW4NW4 TD: 10,675' 660' FSL / 660' FWL	--
X3	EVA J-1-15H	312655	1736809	--	N35°51'22.82" W98°46'54.70"	N35.856340° W98.781862°	15-16N-15W:E2SW4SW4SE4 TD: 13,500' 330' FSL / 2,268' FEL	--
X4	JOHNSON /C/-1	311019	1737472	--	N35°51'06.69" W98°46'46.49"	N35.851859° W98.779580°	22-16N-15W:NE4 TD: 10,910' 1,320' FSL / 1,020' FWL	--
X5	FRANS TRUST-1-22	308422	1736099	--	N35°50'40.90" W98°47'02.91"	N35.844695° W98.784142°	22-16N-15W:E2SW4 TD: 11,055' 1,320' FSL / 2,340' FWL	--

NAD-27

POINT	NAME	NORTHING	EASTING	ELEVATION	LATITUDE LONGITUDE	LATITUDE LONGITUDE		DESIGN ELEVATION
W1	KARMIN 1-22-15XHW	307417	1765788	1746.18	N35°50'30.90" W98°47'24.75"	N35.841917° W98.790208°	335' FSL / 433' FWL (SW/4 SEC 22)	1753.75
L.P.	LANDING POINT	307488	1765735	--	N35°50'31.60" W98°47'25.39"	N35.842110° W98.790386°	405' FSL / 380' FWL (SW/4 SEC 22)	--
B.H.L.	BOTTOM HOLE LOCATION	317518	1765809	--	N35°52'10.79" W98°47'25.49"	N35.869665° W98.790413°	30' FNL / 380' FWL (NW/4 SEC 15)	--
X1	DIDDIER-1-15	314160	1767553	--	N35°51'37.73" W98°47'03.96"	N35.860479° W98.784434°	15-16N-15W:NW4SE4NE4SW4 TD: 10,700' 1,860' FSL / 2,150' FWL	--
X2	MCNEILL-1	315585	1766074	--	N35°51'51.70" W98°47'22.07"	N35.864362° W98.789465°	15-16N-15W:CSW4NW4 TD: 10,675' 660' FSL / 660' FWL	--
X3	EVA J-1-15H	312629	1768411	--	N35°51'22.66" W98°46'53.39"	N35.856294° W98.781497°	15-16N-15W:E2SW4SW4SE4 TD: 13,500' 330' FSL / 2,268' FEL	--
X4	JOHNSON /C/-1	310993	1769074	--	N35°51'06.53" W98°46'45.17"	N35.851813° W98.779215°	22-16N-15W:NE4 TD: 10,910' 1,320' FSL / 1,020' FWL	--
X5	FRANS TRUST-1-22	308396	1767702	--	N35°50'40.73" W98°47'01.60"	N35.844648° W98.783777°	22-16N-15W:E2SW4 TD: 11,055' 1,320' FSL / 2,340' FWL	--

Certificate of Authorization No. 7318

Date Staked: 11-15-17
Date Drawn: 11-15-17



Prepared By:
Petro Land Services South
10404 Vineyard Blvd.
Suite G100
Oklahoma City, OK 73120

REVISIONS

No.	DATE	BY	DESCRIPTION	COMMENTS
00	11-15-2017	MJL	ISSUED FOR APPROVAL	--
01	11-21-2017	MJL	REV. PAD LOCATION	EXHIBITS A (1&2), B, F, G, H & I
02	01-11-2018	MJL	REV. SHL FWL	THIS SHEET ONLY

