

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

API NUMBER: 137 27416

Approval Date: 03/27/2015  
Expiration Date: 09/27/2015

Horizontal Hole Oil & Gas

PERMIT TO DRILL

WELL LOCATION: Sec: 15 Twp: 2N Rge: 4W County: STEPHENS  
SPOT LOCATION:  NW  NE  NW  SE FEET FROM QUARTER: FROM SOUTH FROM EAST  
SECTION LINES: 2420 1745

Lease Name: VANARKEL Well No: 7-15-10XH Well will be 1745 feet from nearest unit or lease boundary.  
Operator Name: CONTINENTAL RESOURCES INC Telephone: 4052349000; 4052349 OTC/OCC Number: 3186 0

CONTINENTAL RESOURCES INC  
PO BOX 269000  
OKLAHOMA CITY, OK 73126-9000

ROYCE CONDIT  
P.O. BOX 429  
SEMINOLE TX 79360

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

Name	Depth	Name	Depth
1 WOODFORD	14300	6	
2		7	
3		8	
4		9	
5		10	

Spacing Orders: 593306  
601726

Location Exception Orders:

Increased Density Orders: 637619

Pending CD Numbers: 201500425  
201500426  
201500415  
201501633

Special Orders:

Total Depth: 22137 Ground Elevation: 1108 **Surface Casing: 1500** Depth to base of Treatable Water-Bearing FM: 580

Under Federal Jurisdiction: No

Fresh Water Supply Well Drilled: No

Surface Water used to Drill: Yes

PIT 1 INFORMATION

Type of Pit System: ON SITE

Type of Mud System: WATER BASED

Chlorides Max: 3000 Average: 2500

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: 2

Liner not required for Category: 2

Pit Location is BED AQUIFER

Pit Location Formation: DUNCAN

Approved Method for disposal of Drilling Fluids:

A. Evaporation/dewater and backfilling of reserve pit.

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

PERMIT NO: 15-29791

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: ON SITE  
 Type of Mud System: OIL BASED  
 Chlorides Max: 300000 Average: 250000  
 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: 3  
 Liner required for Category: 3  
 Pit Location is BED AQUIFER  
 Pit Location Formation: DUNCAN

HORIZONTAL HOLE 1

Sec 10 Twp 2N Rge 4W County STEPHENS  
 Spot Location of End Point: N2 NW NE NE  
 Feet From: NORTH 1/4 Section Line: 30  
 Feet From: EAST 1/4 Section Line: 990  
 Depth of Deviation: 13741  
 Radius of Turn: 480  
 Direction: 8  
 Total Length: 7641  
 Measured Total Depth: 22137  
 True Vertical Depth: 14300  
 End Point Location from Lease,  
 Unit, or Property Line: 30

Additional Surface Owner	Address	City, State, Zip
PAUL L. MCCULLISS	P.O. BOX 3248	LITTLETON, CO 80161
GEORGE G. VAUGHT JR.	P.O. BOX 13557	DENVER, CO 80201

Notes:

Category	Description
DEEP SURFACE CASING	3/24/2015 - G71 - APPROVED CONTINGENT ON NOTIFYING OCC FIELD STAFF IMMEDIATELY OF ANY LOSS OF CIRCULATION OR FAILURE TO CIRCULATE CEMENT TO SURFACE ON ANY CONDUCTOR OR SURFACE CASING
INCREASED DENSITY - 637619	3/24/2015 - G76 - (E.O.) 10-2N-4W X593306 WDFD 7 WELLS CONTINENTAL RESOURCES, INC. 3/10/2015
MEMO	3/24/2015 - G71 - PITS 1 & 2 - CONCRETE LINED PIT PER OPERATOR REQUEST, PIT 2 - OBM RETURNED TO VENDOR, CUTTINGS HAULED TO DEQ APPROVED FACILITY - PAUL VALLEY LANDFILL (GARVIN) - 3525009 - SOUTHERN PLAINS LANDFILL (GRADY) - 3526013
PENDING CD - 201500415	3/24/2015 - G76 - 15-2N-4W X601726 WDFD 6 WELLS CONTINENTAL RESOURCES, INC. REC. 3/9/2015 (LEAVITT)
PENDING CD - 201500425	3/24/2015 - G76 - (I.O.)(MULTIUNIT) 15 & 10-2N-4W EST MULTIUNIT HORIZONTAL WELL X601726 15-2N-4W WDFD, OTHERS X593306 10-2N-4W WDFD, OTHERS 35% 15-2N-4W 65% 10-2N-4W CONTINENTAL RESOURCES, INC. REC. 2/17/2015 (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.

137 27416 VANARKEL 7-15-10XH

Category	Description
PENDING CD - 201500426	<p>3/24/2015 - G76 - (I.O.) 15 &amp; 10-2N-4W  X601726 15-2N-4W WDFD, OTHERS  X593306 10-2N-4W WDFD, OTHERS  SHL NCT 2440 FSL, NCT 1780 FEL 15-2N-4W**  1ST PERF 15-2N-4W NCT 2440 FSL, NCT 330 FEL  LAST PERF 15-2N-4W NCT 0 FNL, NCT 330 FEL  1ST PERF 10-2N-4W NCT 0 FSL, NCT 330 FEL  LAST PERF 10-2N-4W NCT 150 FNL, NCT 330 FEL  NO OP. NAMED  REC. 2/17/2015 (NORRIS)</p> <p>**ITD HAS SHL 2420 FSL, 1745 FEL; TO BE CORRECTED AT HEARING FOR FINAL ORDER  LOCATION EXCEPTION PER OPERATOR</p>
PENDING CD - 201501633	<p>3/27/2015 - G76 - (I.O.) 10 &amp; 15-2N-4W  X165:10-3-28(C)(2)(B) WDFD, OTHERS (VANARKEL 7-15-10XH)  CLOSER THAN 600' TO VANARKEL 1-15H (API 137-26966) &amp; VANARKEL 6-15-10XH (API 137-27415)  CONTINENTAL RESOURCES, INC.  HEARING ON 4/20/2015; OK'D BY VIRGINIA HULLINGER, TECHNICAL MANAGER</p>
SPACING - 593306	<p>3/24/2015 - G76 - (640) 10-2N-4W  EXT 592371 WDFD, OTHERS  EXT OTHERS  EST OTHERS</p>
SPACING - 601726	<p>3/24/2015 - G76 - (640) 15-2N-4W  EXT OTHERS  EXT 593306 WDFD, OTHERS</p>

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.

API-137-27416

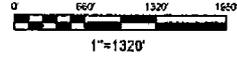
Continental

# Well Location Plat

S.H.L. Sec. 15-2N-4W I.M.  
B.H.L. Sec. 10-2N-4W I.M.

Operator: CONTINENTAL RESOURCES, INC.  
Lease Name and No.: VANARKEL #7-15-10XH  
Footage: 2420' FSL - 1745' FEL GR. ELEVATION: 1108' Good Site? YES  
Section: 15 Township: 2N Range: 4W I.M.  
County: Stephens State of Oklahoma  
Alternate Loc.: N/A  
Terrain at Loc.: Location fell in open, hilly pasture surrounded by existing pipelines.

Directions: In Doyle, OK, the Junction of State Highway 29 and State Highway 76 is the Southeast corner Section 15-2N-4W.

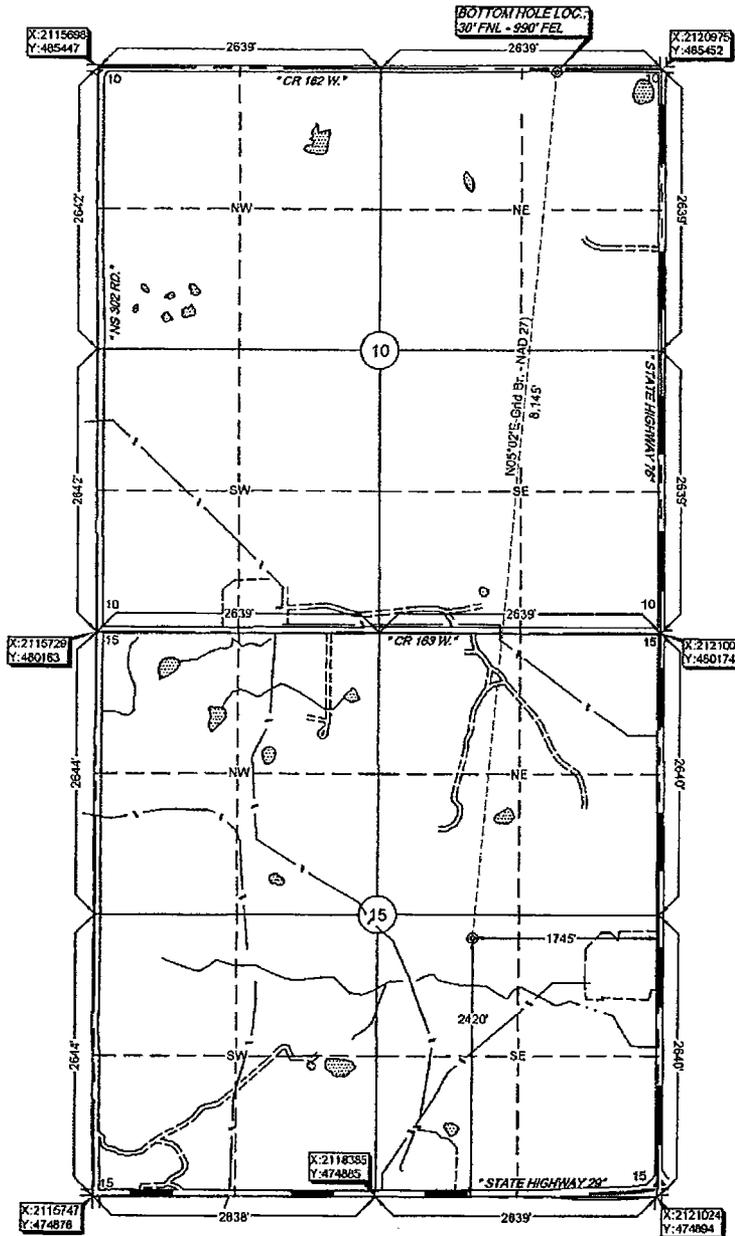


GPS DATUM  
NAD - 27  
OK SOUTH ZONE

Surface Hole Loc.:
Lat: 34°38'39.47"N
Lon: 97°36'12.45"W
X: 2119272
Y: 477308

Bottom Hole Loc.:
Lat: 34°39'59.70"N
Lon: 97°36'03.52"W
X: 2119986
Y: 485421

Quarter Section distances may be assumed from a Government Survey Plat or assumed at a proportional distance from opposing section corners, or occupation lines, and may not have been measured on-the-ground, and further, does not represent a true boundary survey.



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 Arkoma Surveying and Mapping promptly if any inconsistency is determined. GPS data is derived 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.

survey and plat by,  
**Arkoma Surveying and Mapping, PLLC**  
P.O. Box 238 Wilburton, OK 74578  
Ph. 918-465-5711 Fax 918-465-5030  
Certificate of Authorization No. 5348  
Expires June 30, 2016

Invoice # 5222-B  
Date Staked: 01/08/15 By: C.K.  
Date Drawn: 01/09/15 By: J.H.  
Revise Lease Name: 01/20/15 By: R.M.  
Revise Lease Name: 01/22/15 By: T.S.  
Added BHL: 01/27/15 By: J.H.

**Certification:**  
This is to certify that this Well Location Plat represents the results of a survey made on the ground performed under the supervision of the undersigned.

*Stan Drannon* 1/28/15  
STAN DRANNON OK LPLS 1672

