

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

API NUMBER: 011 23870 A

Approval Date: 11/07/2017
Expiration Date: 05/07/2018

Horizontal Hole Oil & Gas

Amend reason: WELL NUMBER

AMEND PERMIT TO DRILL

WELL LOCATION: Sec: 31 Twp: 13N Rge: 12W

County: BLAINE

SPOT LOCATION:

FEET FROM QUARTER: FROM NORTH FROM EAST

SECTION LINES: 350 2280

Lease Name: FRIESEN

Well No: 1-31-6XHM

Well will be 350 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

TERRAL KLAASSEN AND PAMELA KLAASSEN
1102 CS 2540
HYDRO OK 73048

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

	Name	Depth	Name	Depth
1	MISSISSIPPIAN	14465	6	
2	WOODFORD	15010	7	
3	HUNTON	15300	8	
4			9	
5			10	

Spacing Orders: 203565
669613
669647
669612

Location Exception Orders: 669648

Increased Density Orders:

Pending CD Numbers:

Special Orders:

Total Depth: 24420

Ground Elevation: 1576

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: 17-33125

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 06 Twp 12N Rge 12W County CADDO

Spot Location of End Point: S2 SW SW SW

Feet From: SOUTH 1/4 Section Line: 50

Feet From: WEST 1/4 Section Line: 330

Depth of Deviation: 13988

Radius of Turn: 490

Direction: 182

Total Length: 9662

Measured Total Depth: 24420

True Vertical Depth: 15300

End Point Location from Lease,
Unit, or Property Line: 50

Notes:

Category

Description

DEEP SURFACE CASING

10/12/2017 - 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

10/12/2017 - 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

LOCATION EXCEPTION - 669648

11/7/2017 - G60 - (E.O.) 31-13N-12W & 6-12N-12W
X203565 WDFD (31-13N-12W)
X669613 MSSP, WDFD (31-13N-12W)
X669612 MSSP, WDFD (6-12N-12W)
SHL NCT 0' FNL, NCT 330' FEL, NCT 330' FWL (31-13N-12W)
COMPL. INT. (31-13N-12W) NCT 150' FNL, NCT 0' FSL, NCT 330' FEL
COMPL. INT. (6-12N-12W) NCT 0' FNL, NCT 150' FSL, NCT 330' FWL
CONTINENTAL RESOURCES, INC.
11/1/17

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.

011 23870 FRIESEN 1-31-6XHM

Category	Description
MEMO	10/12/2017 - G71 - PITS 1 & 2 - CLOSED SYSTEM=STEEL PITS PER OPERATOR REQUEST, PIT 1 – CUTTINGS WILL BE SOIL FARMED, PIT 2 – OBM RETURNED TO VENDOR, OBM CUTTINGS TO ORDER 587498, 31-12N-8W, CANADIAN CO
SPACING - 203565	11/7/2017 - G60 - (640) 31-13N-12W EST OTHERS EXT 173209 WDFD, OTHERS
SPACING - 669612	11/7/2017 - G60 - (E.O.)(640) 6-12N-12W EXT 653943 MSSP, WDFD, OTHER 11/1/17
SPACING - 669613	11/7/2017 - G60 - (E.O.)(640) 31-13N-12W EXT 586090 MSSP, OTHER 11/1/17
SPACING - 669647	11/7/2017 - G60 - (E.O.) 31-13N-12W & 6-12N-12W EST MULTIUNIT HORIZONTAL WELL X203565 WDFD (31-13N-12W) X669613 MSSP, WDFD (31-13N-12W) X669612 MSSP, WDFD (6-12N-12W) (WDFD OR MSSP IS AN ADJACENT COMMON SOURCE OF SUPPLY TO THE WDFD OR MSSP) 50% 31-13N-12W 50% 6-12N-12W CONTINENTAL RESOURCES, INC. 11/1/17



Well Location Plat

Operator : CONTINENTAL RESOURCES, INC.

3501123870

EXHIBIT "A"
S.H.L. Sec. 31-13N-12W I.M.
BLAINE COUNTY
B.H.L. Sec. 6-12N-12W I.M.
CADDO COUNTY
(SHEET 2 OF 3)

3501123870

GPS DATUM
OK NORTH ZONE

NAD 27

Point	Northing	Easting	Elevation	Latitude/Longitude	Latitude/Longitude	Description	Design Elevation
20	206453	1843650	0.0			IR W/CAP NWc 31-13N-12W	
21	206432	1846284	0.0			1/2" IR N/4 31-13N-12W	
22	206418	1848924	0.0			1/2" IR NEc 31-13N-12W	
23	201161	1843613	0.0			1/2" IR SWc 31-13N-12W	
24	201150	1846091	0.0			1/2" IR NWc 6-12N-12W	
25	201138	1848884	0.0			IR W/CAP SEc 31-13N-12W	
26	201126	1851229	0.0			1/2" IR NEc 6-12N-12W	
27	195772	1846040	0.0			1/2" IR SWc 6-12N-12W	
28	195696	1851178	0.0			CHISLED "X" SEc 6-12N-12W	
50	205765	1847930	0.0	LAT:35°33'51.02"N LON:98°30'40.57"W	LAT:35.56417261 LON:-98.51126882	AC - ARROW OIL & GAS RUTH 1-31 OCC STATUS: PA, TVD: 12775'	
51	205106	1847434	0.0	LAT:35°33'44.48"N LON:98°30'46.53"W	LAT:35.56235556 LON:-98.51292422	AC - MUSTANG FUEL FRIESEN 1-31 OCC STATUS: AC, TVD: 12935'	
52	198528	1847386	0.0	LAT:35°32'39.43"N LON:98°30'46.68"W	LAT:35.54428515 LON:-98.51296712	AC - CLR MAJORS #1-6H OCC STATUS: AC, TVD: 13150'	
53	197069	1847573	0.0	LAT:35°32'25.01"N LON:98°30'44.34"W	LAT:35.54028020 LON:-98.51231569	AC - CHESAPEAKE MAJORS A-1 OCC STATUS: AC, TVD: 13100'	
100	206080	1846641	1576.4'	LAT:35°33'54.07"N LON:98°30'56.18"W	LAT:35.56502019 LON:-98.51560607	A. FRIESEN #1-31-6XHM 350' FNL - 2280' FEL	1575.6'
200	205601	1846371	0.0	LAT:35°33'49.33"N LON:98°30'59.43"W	LAT:35.56370144 LON:-98.51650731	A. HEEL SLOT 830' FNL - 2547' FEL	
300	195817	1846371	0.0	LAT:35°32'12.56"N LON:98°30'58.80"W	LAT:35.53682182 LON:-98.51633310	A. BOTTOM HOLE LOCATION 50' FSL - 330' FWL	

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, 2018

Invoice #6840

Date Staked : 06/07/17 By : R.L.

Date Drawn : 06/23/17 By : J.H.

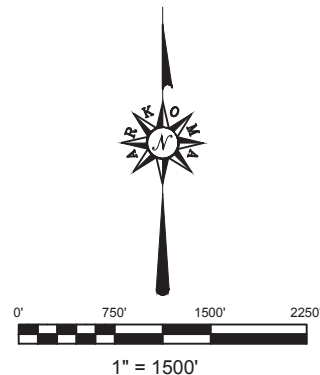
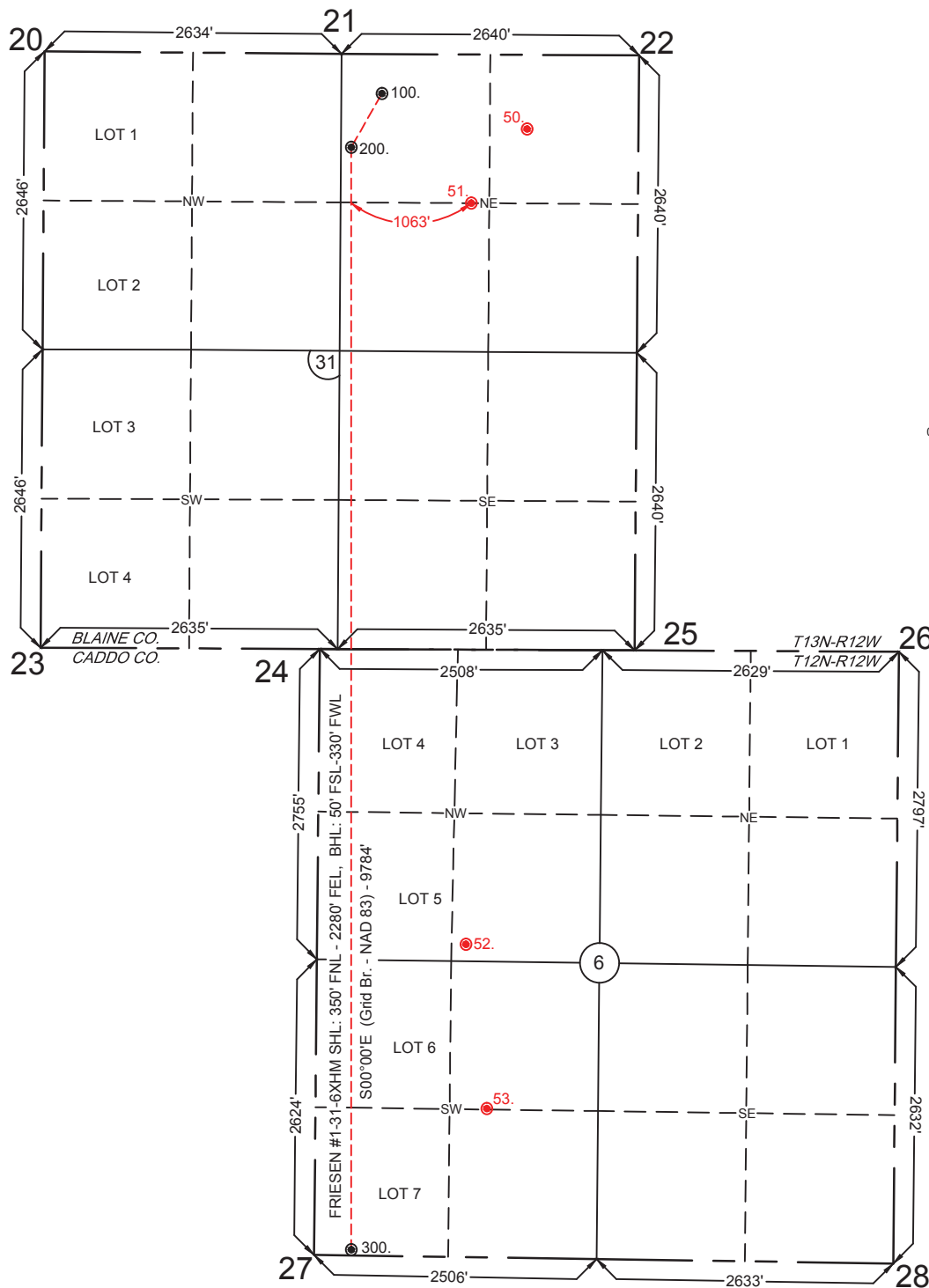


Well Location Plat

Operator : CONTINENTAL RESOURCES, INC.

3501123870

EXHIBIT "A"
S.H.L. Sec. 31-13N-12W I.M.
BLAINE COUNTY
B.H.L. Sec. 6-12N-12W I.M.
CADDO COUNTY
(SHEET 3 OF 3)



GPS DATUM
NAD - 27
NAD - 83
OK NORTH ZONE

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.
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.
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 observed from RTK - GPS.

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, 2018

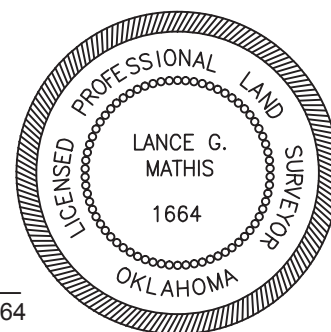
Certification:

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.

LANCE G. MATHIS

10/13/17

OK LPLS 1664



Invoice #6840

Date Staked : 06/07/17 By : R.L.
Date Drawn : 06/23/17 By : J.H.