

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

API NUMBER: 011 23942

Approval Date: 02/16/2018

Expiration Date: 08/16/2018

Horizontal Hole Oil & Gas

PERMIT TO DRILL

WELL LOCATION: Sec: 30 Twp: 13N Rge: 13W

County: BLAINE

SPOT LOCATION: ☐ NW ☐ SW ☐ SW ☐ SE

FEET FROM QUARTER: FROM SOUTH FROM EAST

SECTION LINES: 367 2427

Lease Name: HECKENBERG

Well No: 3-30-19XH

Well will be 367 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

STUTZMAN LAND LLC
24490 E 980 RD
WEATHERFORD OK 73096

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

	Name	Depth	Name	Depth
1	OSWEGO	10400	6	
2	CHEROKEE	10950	7	
3	DES MO'SIAN	10960	8	
4	ATOKA	11450	9	
5			10	

Spacing Orders: 136470
651608
637475

Location Exception Orders:

Increased Density Orders:

Pending CD Numbers: 201800624
201800623

Special Orders:

Total Depth: 21633

Ground Elevation: 1608

Surface Casing: 1500

Depth to base of Treatable Water-Bearing FM: 310

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: 18-33817

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: 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: C

Liner not required for Category: C

Pit Location is BED AQUIFER

Pit Location Formation: RUSH SPRINGS

HORIZONTAL HOLE 1

Sec 19 Twp 13N Rge 13W County BLAINE

Spot Location of End Point: NW NE NE NW

Feet From: NORTH 1/4 Section Line: 50

Feet From: WEST 1/4 Section Line: 2100

Depth of Deviation: 11025

Radius of Turn: 477

Direction: 350

Total Length: 9859

Measured Total Depth: 21633

True Vertical Depth: 11695

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

Notes:

Category

Description

DEEP SURFACE CASING

1/30/2018 - 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

1/30/2018 - 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

MEMO

1/30/2018 - G71 - PITS 1 & 2 - CLOSED SYSTEM=STEEL PITS PER OPERATOR REQUEST, PIT 2 - OBM RETURNED TO VENDOR, CUTTINGS PERMITTED 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.

011 23942 HECKENBERG 3-30-19XH

Category	Description
PENDING CD - 201800624	<p>2/16/2018 - G58 - (E.O.) 19 & 30-13N-13W EST MULTIUNIT HORIZONTAL WELL X651608 DSMS (19-13N-13W)** X136470 CHRK (30-13N-13W) (ATOK, OSWG ARE ADJACENT COMMON SOURCES OF SUPPLY TO CHRK) 50% 19-13N-13W 50% 30-13N-13W NO OP. NAMED REC. 2/16/2018 (P. PORTER)</p> <p>**ATOK CSS DISMISSED AT HEARING FOR 19-13N-13W PER ATTORNEY FOR OP.</p>
PENDING CD - 201800624	<p>2/16/2018 - G58 - (E.O.) 19 & 30-13N-13W X651608 DSMS (19-13N-13W) X136470 CHRK (30-13N-13W) COMPL. INT. (30-13N-13W) NCT 330' FSL, NCT 0' FNL, NCT 1320' FWL COMPL. INT. (19-13N-13W) NCT 0' FSL, NCT 330' FSL, NCT 1320' FWL NO OP. NAMED REC 2/16/2018 (P. PORTER)</p>
SPACING - 136470	<p>1/31/2018 - G58 - (640) 19 & 30-13N-13W EXT OTHERS EXT 73703 CHRK, OSWG (VAC 19-13N-13W BY 651608), AKLM, AKSD, OTHERS (VAC 19-13N-13W BY 651608; VAC 30-13N-13W BY 637475)</p>
SPACING - 637475	<p>2/16/2018 - G58 - (640)(HOR) 30-13N-13W VAC 136470 AKLM, AKSD, OTHERS EST ATOK, OTHERS</p>
SPACING - 651608	<p>1/31/2018 - G58 - (640) 19-13N-13W VAC OTHER VAC 136470 CHRK, OTHERS (19-13N-13W) EST DSMS, OTHERS</p>

EXHIBIT: A (1 of 2)
SHEET: 8.5x11
SHL: 30-13N-13W
BHL: 19-13N-13W



011-23942

COVER SHEET

CONTINENTAL RESOURCES, INC.

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

Section 30 Township 13N Range 13W I.M.

Well: HECKENBERG 3-30-19XH

County BLAINE State OK

Well: _____

Operator CONTINENTAL RESOURCES, INC.

Well: _____

NAD-83

POINT	NAME	NORTHING	EASTING	ELEVATION	LATITUDE LONGITUDE	LATITUDE LONGITUDE		DESIGN ELEVATION
W3	HECKENBERG 3-30-19XH	207011	1783311	1607.7	35°34'01.38" 98°37'21.55"	35.567049° 98.622654°	367' FSL / 2,427' FEL (SE/4 SEC 30)	1608.0
L.P.	LANDING POINT	207292	1782569	--	35°34'04.11" 98°37'30.56"	35.567809° 98.625157°	645' FSL / 2,100' FWL (SW/4 SEC 30)	--
B.H.L.	BOTTOM HOLE LOCATION	217151	1782650	--	35°35'41.62" 98°37'30.35"	35.594895° 98.625097°	50' FNL / 2,100' FWL (NW/4 SEC 19)	--
X1	LETHA ROWLAND 1-19	213242	1782011	--	35°34'49.87" 98°37'37.79"	35.580519° 98.627164°	19-13N-13W:W2W2E2SW4 TD: 11,800' 1,320' FSL / 1,500' FWL	--
X2	HECKENBERG 1-19-30XH	214751	1780735	--	35°35'17.76" 98°37'53.32"	35.588203° 98.631144°	19-13N-13W:SWSWSWNW TD: 23,945' 2,450' FNL / 210' FWL	--
X3	ROBBIE RAY 1-19-18XH	214310	1780758	--	35°35'13.40" 98°37'53.03"	35.587056° 98.631397°	19-13N-13W:NWNWNWSW TD: 22,578' 2385' FSL / 235' FWL	--

NAD-27

POINT	NAME	NORTHING	EASTING	ELEVATION	LATITUDE LONGITUDE	LATITUDE LONGITUDE		DESIGN ELEVATION
W3	HECKENBERG 3-30-19XH	206986	1814911	1607.7	35°34'01.19" 98°37'20.29"	35.566998° 98.622303°	367' FSL / 2,427' FEL (SE/4 SEC 30)	1608.0
L.P.	LANDING POINT	207267	1814168	--	35°34'03.93" 98°37'29.30"	35.567758° 98.624806°	645' FSL / 2,100' FWL (SW/4 SEC 30)	--
B.H.L.	BOTTOM HOLE LOCATION	217126	1814250	--	35°35'41.44" 98°37'29.09"	35.594844° 98.624746°	50' FNL / 2,100' FWL (NW/4 SEC 19)	--
X1	LETHA ROWLAND 1-19	213217	1813611	--	35°35'02.74" 98°37'36.52"	35.584093° 98.626810°	19-13N-13W:W2W2E2SW4 TD: 11,800' 1,320' FSL / 1,500' FWL	--
X2	HECKENBERG 1-19-30XH	214726	1812335	--	35°35'17.58" 98°37'52.08"	35.588217° 98.631134°	19-13N-13W:SWSWSWNW TD: 23,945' 2,450' FNL / 210' FWL	--
X3	ROBBIE RAY 1-19-18XH	214285	1812358	--	35°35'13.22" 98°37'51.76"	35.587006° 98.631045°	19-13N-13W:NWNWNWSW TD: 22,578' 2385' FSL / 235' FWL	--

Certificate of Authorization No. 7318

Date Staked: 01/11/18
Date Drawn: 01/11/18

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

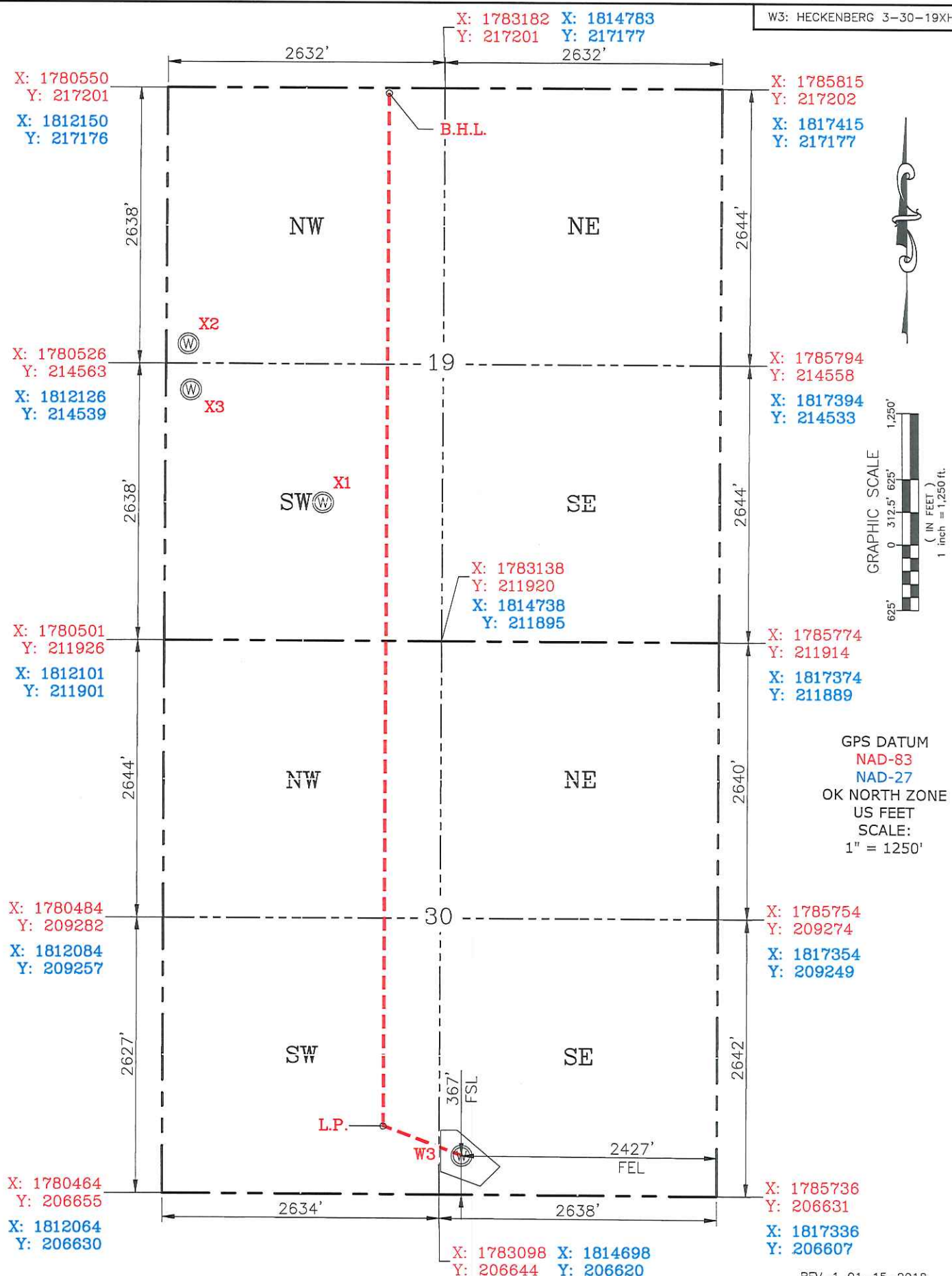
REVISIONS				
No.	DATE	BY	DESCRIPTION	COMMENTS
00	01-11-18	MJL	ISSUED FOR APPROVAL	--
01	01-15-18	MJL	REV. COMPLETE SET	(ALL SHEETS)

BHL: 19-13N-13W

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



CONTINENTAL
RESOURCES, INC
(OPERATOR)



REV-1 01-15-2018

Date Staked: 01/11/18
Date Drawn: 01/11/18

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 F. Bilyeu

Oklahoma PLS No.1196 DATE

EXHIBIT: B
SHEET: 8.5x11
SHL: 30-13N-13W
BHL: 19-13N-13W

PETRO LAND SERVICES SOUTH, LLC

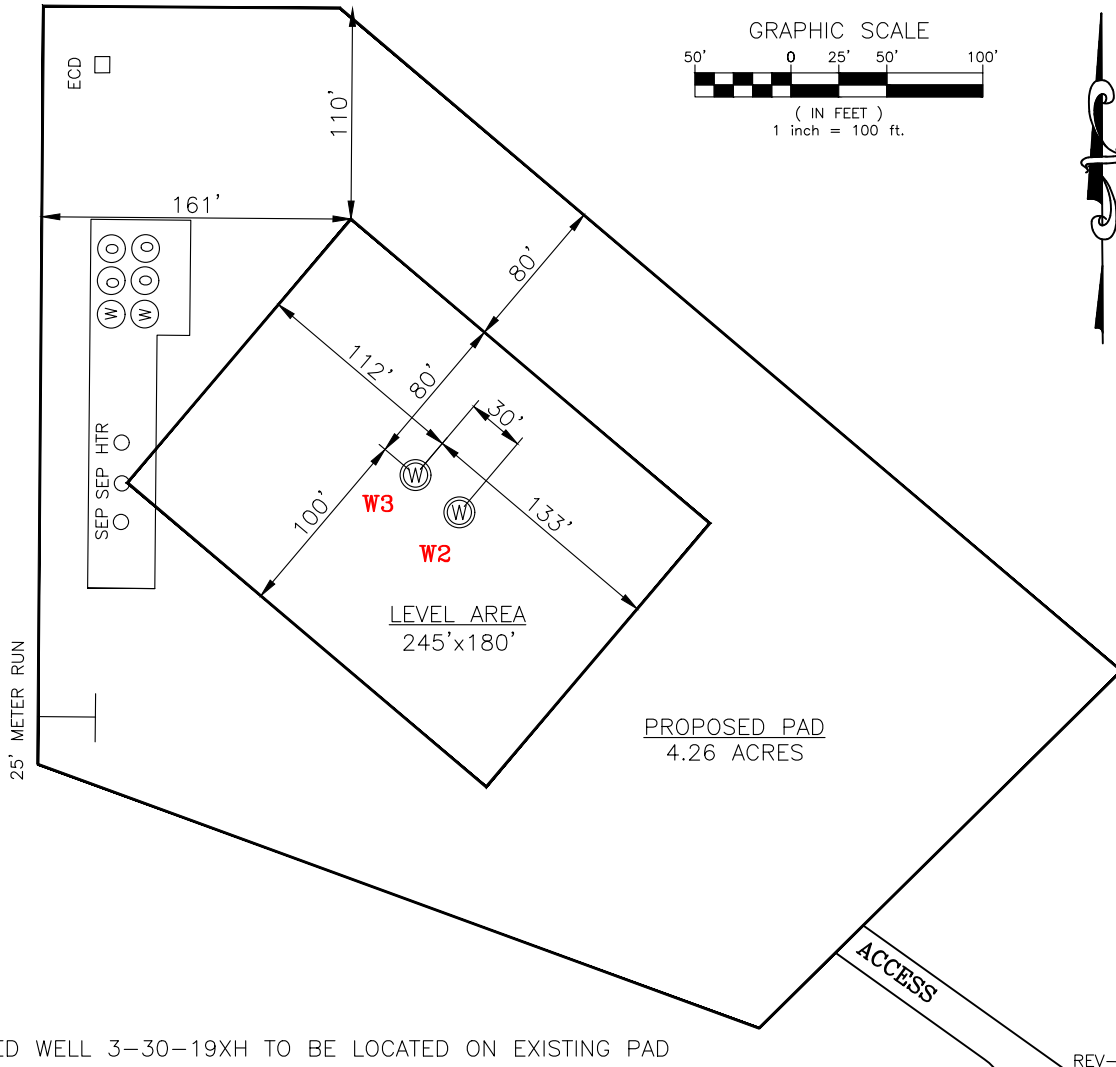
10400 VINEYARD BLVD. SUITE C, OKLA. CITY, OKLA. 73120 * OFFICE (405) 212-3108
Certificate of Authorization No. 7318



CONTINENTAL
RESOURCES, INC
(OPERATOR)

BLAINE County Oklahoma
367' FSL-2,427' FEL Section 30 Township 13N Range 13W I.M.

W3: HECKENBERG 3-30-19XH



NOTE: PROPOSED WELL 3-30-19XH TO BE LOCATED ON EXISTING PAD

REV-1 01-15-2018

DATUM: NAD-83

LAT: 35°34'01.38"N

LONG: 98°37'21.55"W

LAT: 35.567049°N

LONG: 98.622654°W

STATE PLANE
COORDINATES

(US FEET): OK NORTH

X: 1783311

Y: 207011

Operator: Continental Resources, Inc.

Lease Name: --

Topography & Vegetation: Pasture

Good Drill Site? Yes Reference Stakes or Alternate Location Stakes Set: No

Best Accessibility to Location: From The South Line

Distance & Direction From Hwy. or Town: Starting from the Intersection of SH-58 & E-1000 Road. Head west 2 miles to the SE corner of Section 30-T13N-13W.

THE INFORMATION SHOWN HEREIN IS FOR
CONSTRUCTION PURPOSES ONLY

LANDING POINT, BOTTOM HOLE AND DRILL PATH
INFORMATION PROVIDED BY OPERATOR LISTED,
NOT SURVEYED.

SECTION LINE ---
1/4 SEC. LINE ---

(This Information Was Gathered
With a GPS Receiver With ±1
Foot Horiz./Vert. Accuracy)

Certificate of Authorization No. 7318

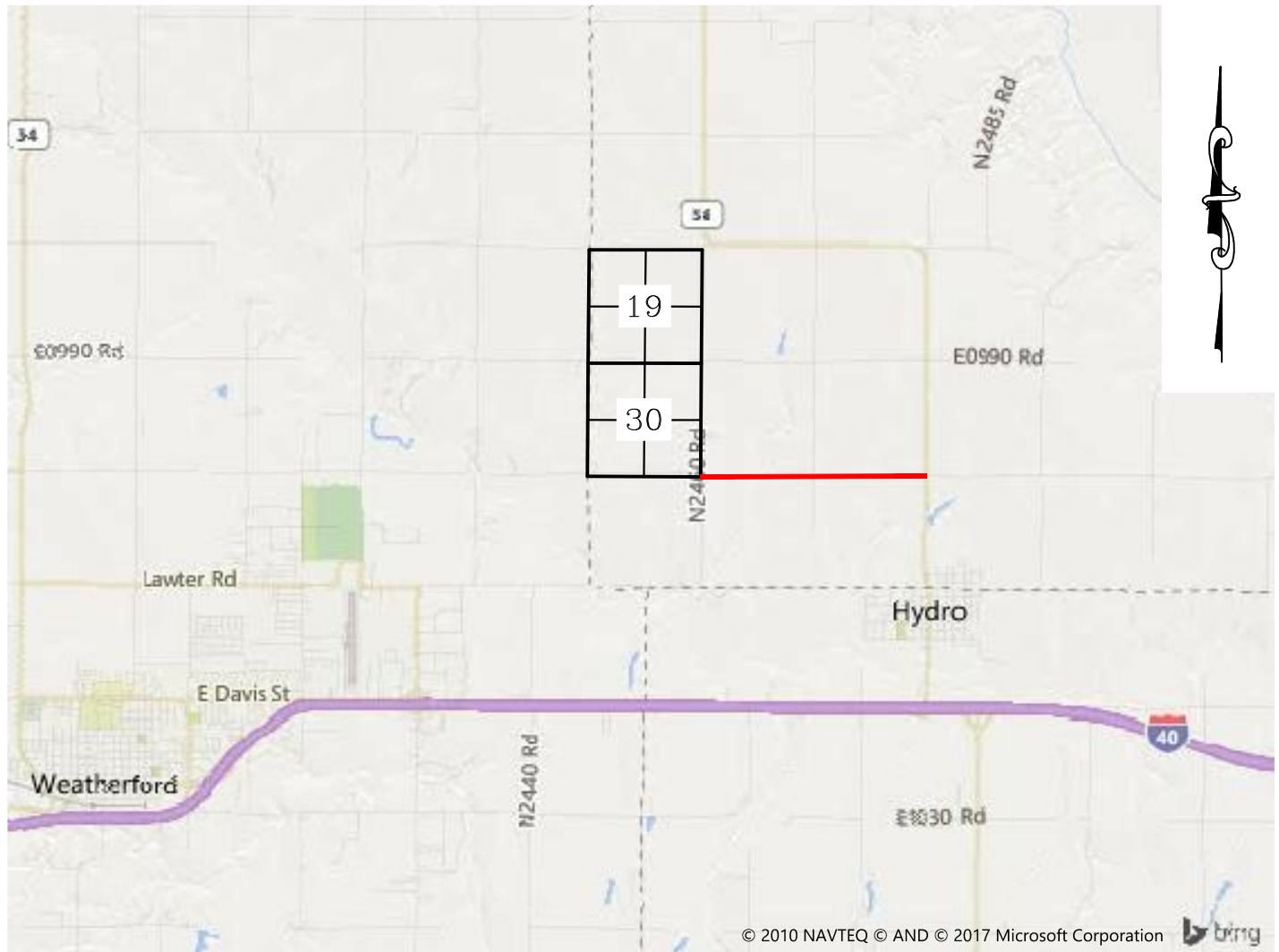


Prepared By:
Petro Land Services South
10400 Vineyard Blvd.
Suite C
Oklahoma City, OK 73120

EXHIBIT: C
SHEET: 8.5x11
SHL: 30-13N-13W
BHL: 19-13N-13W



VICINITY MAP



STARTING FROM THE INTERSECTION OF SH-58 & E-1000 ROAD. HEAD WEST 2 MILES TO THE SE CORNER OF SECTION 30-T13N-13W.

REV-1 01-15-2018

CONTINENTAL RESOURCES, INC.

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

Certificate of Authorization No. 7318

Section 30 Township 13N Range 13W I.M. Well: HECKENBERG 3-30-19XH

Invoice No.
Date Staked:

County BLAINE State OK Well: _____



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

Operator CONTINENTAL RESOURCES, INC. Well: _____

EXHIBIT: D
SHEET: 8.5x11

WELL: HECKENBERG 3-30-19XH



FACING NORTH

(NO IMAGE AVAILABLE)

FACING SOUTH

(NO IMAGE AVAILABLE)

REV-1 01-15-2018



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

TERRAIN

DRAWN BY:	MJL	SCALE:	N.T.S.
CHECKED BY:	MVA	JOB No.:	--
APPROVED BY:	---	DWG. NO.:	TERRAIN-1
DATE ISSUED:	01-11-18	SHEET:	1 OF 2

EXHIBIT: E
SHEET: 8.5x11

WELL: HECKENBERG 3-30-19XH



FACING EAST

(NO IMAGE AVAILABLE)

FACING WEST

(NO IMAGE AVAILABLE)

REV-1 01-15-2018

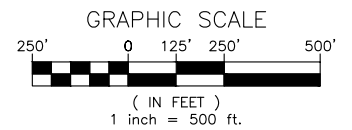


Prepared By:
Petro Land Services South
10400 Vineyard Blvd.
Suite C
Oklahoma City, OK 73120

TERRAIN

DRAWN BY:	MJL	SCALE:	N.T.S.
CHECKED BY:	MVA	JOB No.:	--
APPROVED BY:	---	DWG. NO.:	TERRAIN-2
DATE ISSUED:	01-11-18	SHEET:	2 OF 2

EXHIBIT: F
SHEET: 8.5x11
SHL: 30-13N-13W
BHL: 19-13N-13W



GPS DATUM - OK NORTH ZONE
US FEET SCALE: 1" = 500'

Section 30 Township 13N Range 13W I.M. Well: HECKENBERG 3-30-19XH
County BLAINE State OK
Operator CONTINENTAL RESOURCES, INC.

REV-1 01-15-2018



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

AERIAL PLAT

DRAWN BY:	MJL	SCALE:	1" = 500'
CHECKED BY:	MVA	JOB No.:	--
APPROVED BY:	---	DWG. NO.:	AERIAL-1
DATE ISSUED:	01-11-18	SHEET:	1 OF 1