

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

API NUMBER: 051 24320

Approval Date: 04/06/2018
Expiration Date: 10/06/2018

Horizontal Hole Oil & Gas

PERMIT TO DRILL

WELL LOCATION: Sec: 23 Twp: 7N Rge: 6W County: GRADY
SPOT LOCATION: NE NE NW NE FEET FROM QUARTER: FROM NORTH FROM EAST
SECTION LINES: 323 1608

Lease Name: **LOWERS** Well No: **5-14-11-2XHS** Well will be **323** 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

WARD H. & SHELLEY A. HILL
2238 COUNTY STREET 2920
CHICKASHA OK 73018

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

	Name	Depth	Name	Depth
1	MORROW	11725	6	
2	SPRINGER	11754	7	
3	GODDARD	11824	8	
4	CANEY	12337	9	
5			10	

Spacing Orders: 568015
564117
614043
598786
567314

Location Exception Orders:

Increased Density Orders:

Pending CD Numbers: 201802340
201802347
201802656

Special Orders:

Total Depth: 24413 Ground Elevation: 1177 **Surface Casing: 1500** Depth to base of Treatable Water-Bearing FM: 390

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 not located in a Hydrologically Sensitive Area.

Category of Pit: C

Liner not required for Category: C

Pit Location is NON HSA

Pit Location Formation: CHICKASHA

Approved Method for disposal of Drilling Fluids:

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

PERMIT NO: 18-34184

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 not located in a Hydrologically Sensitive Area.

Category of Pit: C

Liner not required for Category: C

Pit Location is NON HSA

Pit Location Formation: CHICKASHA

HORIZONTAL HOLE 1

Sec 02 Twp 7N Rge 6W County GRADY

Spot Location of End Point: N2 N2 NE SE

Feet From: SOUTH 1/4 Section Line: 2500

Feet From: EAST 1/4 Section Line: 660

Depth of Deviation: 11458

Radius of Turn: 382

Direction: 15

Total Length: 12355

Measured Total Depth: 24413

True Vertical Depth: 12337

End Point Location from Lease,
Unit, or Property Line: 660

Notes:

Category

Description

DEEP SURFACE CASING

3/30/2018 - 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

3/30/2018 - 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

3/30/2018 - G71 - PITS 1 & 2 - CLOSED SYSTEM=STEEL PITS PER OPERATOR REQUEST, PIT 2 - OBM RETURNED TO VENDOR, CUTTINGS PERMITTED PER DISTRICT

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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.

Category	Description
PENDING CD - 201802340	4/6/2018 - G57 - (E.O.) 14,11,2-7N-6W X568015 GDRD, CNEY 14-7N-6W X564117 GDRD, CNEY 11-7N-6W X614043 MRRW 2-7N-6W X598786 SPRG 2-7N-6W X567314 GDRD (VAC BY 201802656), CNEY 2-7N-6W X165:10-3-28(C)(2)(B) MAY BE CLOSER THAN 600' FROM ANOTHER WELLBORE COMPL. INT. (14-7N-6W) NCT 150' FSL, NCT 0' FNL, NCT 330' FEL & FWL COMPL. INT. (11-7N-6W) NCT 0' FSL, NCT 0' FNL, NCT 330' FEL & FWL COMPL. INT. (2-7N-6W) NCT 0' FSL, NCT 1320' FNL, NCT 330' FEL & FWL NO OP. NAMED REC 4-6-2018 (P. PORTER)
PENDING CD - 201802347	4/6/2018 - G57 - (E.O.) 14, 11, 2-7N-6W EST MULTIUNIT HORIZONTAL WELL X568015 GDRD, CNEY 14-7N-6W X564117 GDRD, CNEY 11-7N-6W X614043 MRRW 2-7N-6W X598786 SPRG 2-7N-6W X567314 GDRD (VAC BY 201802656), CNEY 2-7N-6W (MRRW & CNEY ARE ADJACENT COMMON SOURCES OF SUPPLY TO THE GDRD & SPRG) 42% 14-7N-6W 42% 11-7N-6W 16% 2-7N-6W CONTINENTAL RESOURCES, INC. REC 4-2-2018 (THOMAS)
PENDING CD - 201802656	4/6/2018 - G57 - (I.O.)(640) 2-7N-6W VAC 567314 GDRD NO OP. NAMED HEARING 4-23-2018 (OK'D PER MCCOY)
SPACING - 564117	4/2/2018 - G57 - (640) 11-7N-6W EST GDRD, CNEY
SPACING - 567314	4/6/2018 - G57 - (640) 2-7N-6W EXT OTHER EST GDRD (VAC BY 201802656), CNEY, OTHERS
SPACING - 568015	4/2/2018 - G57 - (640) 14-7N-6W EXT OTHER EST CNEY, GDRD, OTHERS
SPACING - 598786	4/6/2018 - G57 - (640) 2-7N-6W EXT 594618 SPRG EXT OTHERS
SPACING - 614043	4/6/2018 - G57 - (640) 2-7N-6W EXT OTHERS EXT 606194 MRRW

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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 3)
 SHEET: 8.5x14
 SHL: 23-07N-06W
 BHL-4: 02-07N-06W
 BHL-5: 02-07N-06W



COVER SHEET

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

Section 23 Township 07N Range 06W I.M. Well: LOWERS 4-14-11-2XHS
 County GRADY State OK Well: LOWERS 5-14-11-2XHS
 Operator CONTINENTAL RESOURCES, INC.

NAD-83							
POINT	WELL NAME	NORTHING	EASTING	LATITUDE LONGITUDE	LATITUDE LONGITUDE	EXISTING ELEVATION	DESIGN ELEVATION
W4	LOWERS 4-14-11-2XHS	632880	2028568	35° 04' 19.89" -97° 47' 57.33"	35.072193 -97.799257	353' FNL / 1608' FEL (NE/4 SEC 23)	1173.31 / 1176.62
LP-4	LANDING POINT 4	633281	2028196	35° 04' 23.86" -97° 48' 01.79"	35.073295 -97.800497	50' FSL / 1980' FEL (SE/4 SEC 14)	-- / --
BHL-4	BOTTOM HOLE LOCATION 4	646296	2028155	35° 06' 32.59" -97° 48' 01.98"	35.109053 -97.800550	2500' FSL / 1980' FEL (SE/4 SEC 02)	-- / --
W5	LOWERS 5-14-11-2XHS	632910	2028568	35° 04' 20.19" -97° 47' 57.32"	35.072275 -97.799257	323' FNL / 1608' FEL (NE/4 SEC 23)	1173.91 / 1176.62
LP-5	LANDING POINT 5	633288	2029516	35° 04' 23.91" -97° 47' 45.91"	35.073309 -97.796086	50' FSL / 660' FEL (SE/4 SEC 14)	-- / --
BHL-5	BOTTOM HOLE LOCATION 5	646305	2029475	35° 06' 32.65" -97° 47' 46.09"	35.109070 -97.796136	2500' FSL / 660' FEL (SE/4 SEC 02)	-- / --
X-1	WOOLEY #1-2	645120	2028820	35° 06' 20.95" -97° 47' 54.01"	35.105820 -97.798335	2-7N-6W:SE4 TD: 7,456' 1,320' FSL / 1,320' FEL	-- / --
X-2	MCEVOY #1-2-35XH	644106	2029714	35° 06' 10.90" -97° 47' 43.27"	35.103029 -97.795353	2-7N-6W:SW4SW4SW4SE4 TD: 21,959' 300' FSL / 430' FEL	-- / --
X-3	MCCALLA RANCH #1-11	641857	2028681	35° 05' 48.68" -97° 47' 55.75"	35.096856 -97.798820	11-7N-6W:NE4SW4NE4 TD: 7,518' 700' FSL / 1,170' FWL	-- / --
X-4	MCCALLA #1-11H	638902	2026210	35° 05' 19.50" -97° 48' 25.56"	35.088749 -97.807100	11-7N-6W:S2SW4 TD: 12,400' 400' FSL / 1,320' FWL	-- / --
X-5	PORTER #1-14	637192	2028851	35° 05' 02.53" -97° 47' 53.82"	35.084036 -97.798282	14-7N-6W:NE4 TD: 7,632' 1,320' FSL / 1,320' FWL	-- / --
X-6	LOWERS #1-14H	636083	2027008	35° 04' 51.60" -97° 48' 16.02"	35.081000 -97.804449	14-7N-6W:SW4SE4SE4 TD: 17,467' 220' FSL / 2,110' FWL	-- / --
X-7	HILL #1-23	631912	2028861	35° 04' 10.31" -97° 47' 53.63"	35.069530 -97.798285	23-7N-6W:NE4 TD: 7,700' 1,320' FSL / 1,320' FWL	-- / --
X-8	ALINE #1-23A	631901	2026885	35° 04' 10.24" -97° 48' 17.60"	35.069512 -97.804889	23-7N-6W:E2NW4 TD: 7,680' 1,320' FSL / 1,980' FWL	-- / --

NAD-27							
POINT	WELL NAME	NORTHING	EASTING	LATITUDE LONGITUDE	LATITUDE LONGITUDE	EXISTING ELEVATION	DESIGN ELEVATION
W4	LOWERS 4-14-11-2XHS	632838	2060165	35° 04' 19.66" -97° 47' 56.18"	35.072126 -97.798938	353' FNL / 1608' FEL (NE/4 SEC 23)	1173.31 / 1176.62
LP-4	LANDING POINT 4	633239	2059793	35° 04' 23.62" -97° 48' 00.64"	35.073229 -97.800178	50' FSL / 1980' FEL (SE/4 SEC 14)	-- / --
BHL-4	BOTTOM HOLE LOCATION 4	646254	2059752	35° 06' 32.35" -97° 48' 00.83"	35.108987 -97.800230	2500' FSL / 1980' FEL (SE/4 SEC 02)	-- / --
W5	LOWERS 5-14-11-2XHS	632868	2060165	35° 04' 19.95" -97° 47' 56.18"	35.072209 -97.798938	323' FNL / 1608' FEL (NE/4 SEC 23)	1173.91 / 1176.62
LP-5	LANDING POINT 5	633246	2061113	35° 04' 23.67" -97° 47' 44.76"	35.073243 -97.795767	50' FSL / 660' FEL (SE/4 SEC 14)	-- / --
BHL-5	BOTTOM HOLE LOCATION 5	646262	2061072	35° 06' 32.42" -97° 47' 44.94"	35.109005 -97.795817	2500' FSL / 660' FEL (SE/4 SEC 02)	-- / --
X-1	WOOLEY #1-2	645078	2060416	35° 06' 20.71" -97° 47' 52.86"	35.105754 -97.798016	2-7N-6W:SE4 TD: 7,456' 1,320' FSL / 1,320' FEL	-- / --
X-2	MCEVOY #1-2-35XH	644064	2061310	35° 06' 10.67" -97° 47' 42.12"	35.102963 -97.795034	2-7N-6W:SW4SW4SW4SE4 TD: 21,959' 300' FSL / 430' FEL	-- / --
X-3	MCCALLA RANCH #1-11	641815	2060278	35° 05' 48.44" -97° 47' 54.60"	35.096790 -97.798501	11-7N-6W:NE4SW4NE4 TD: 7,518' 700' FSL / 1,170' FWL	-- / --
X-4	MCCALLA #1-11H	638860	2057807	35° 05' 19.26" -97° 48' 24.41"	35.088683 -97.806780	11-7N-6W:S2SW4 TD: 12,400' 400' FSL / 1,320' FWL	-- / --
X-5	PORTER #1-14	637150	2060448	35° 05' 02.29" -97° 47' 52.67"	35.083970 -97.797963	14-7N-6W:NE4 TD: 7,632' 1,320' FSL / 1,320' FWL	-- / --
X-6	LOWERS #1-14H	636041	2058605	35° 04' 51.36" -97° 48' 14.87"	35.080934 -97.804130	14-7N-6W:SW4SE4SE4 TD: 17,467' 220' FSL / 2,110' FWL	-- / --
X-7	HILL #1-23	631870	2060458	35° 04' 10.07" -97° 47' 52.68"	35.069464 -97.797966	23-7N-6W:NE4 TD: 7,700' 1,320' FSL / 1,320' FWL	-- / --
X-8	ALINE #1-23A	631859	2058482	35° 04' 10.01" -97° 48' 16.45"	35.069446 -97.804570	23-7N-6W:E2NW4 TD: 7,680' 1,320' FSL / 1,980' FWL	-- / --

Certificate of Authorization No. 7318

Date Staked: 03-21-18
 Date Drawn: 03-21-18



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

REVISIONS				
No.	DATE	BY	DESCRIPTION	COMMENTS
00	03-21-18	MJL	ISSUED FOR APPROVAL	--

EXHIBIT: A (2 of 3)
 SHEET: 8.5x14
 SHL: 23-07N-06W
 BHL-4: 02-07N-06W

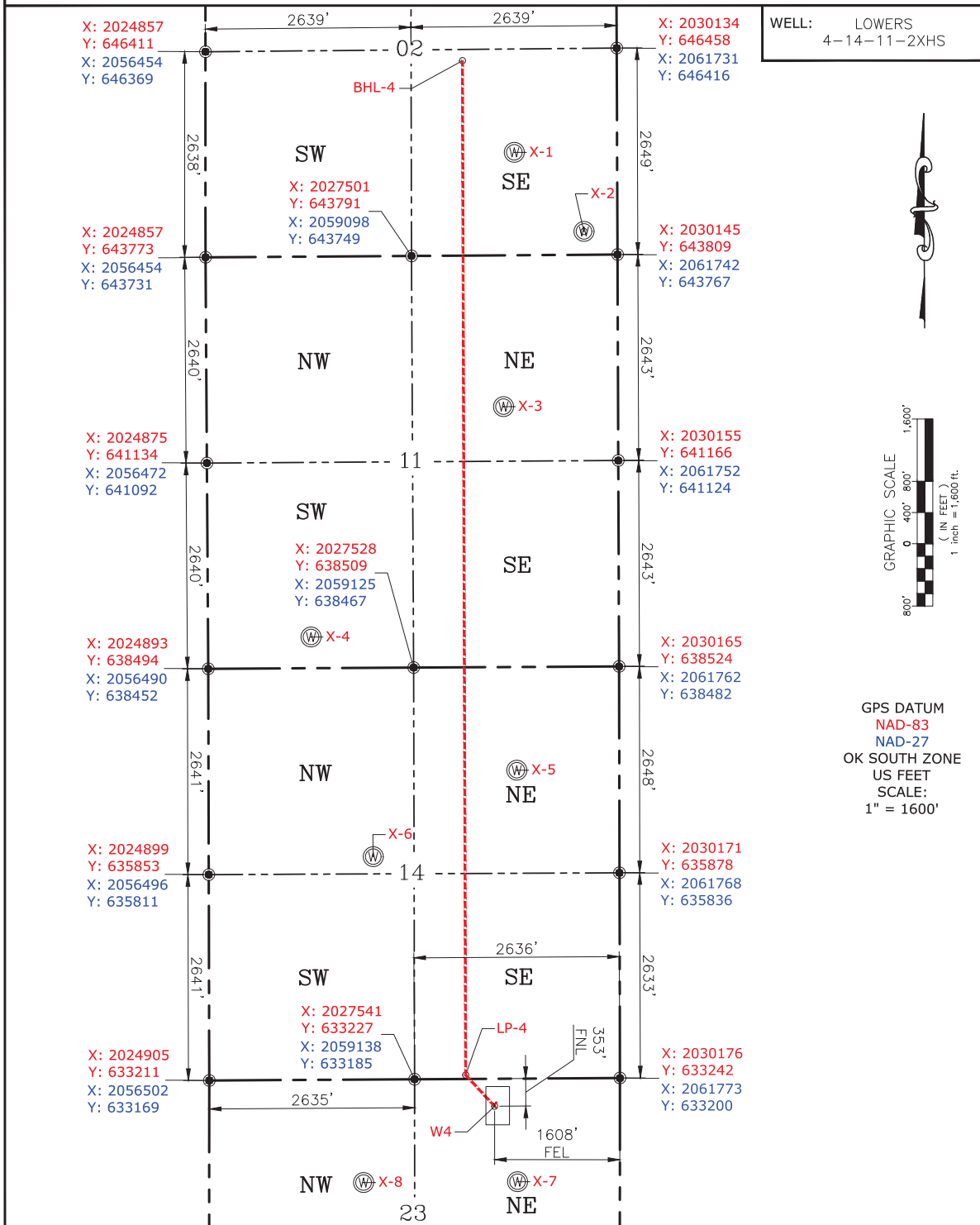
PETRO LAND SERVICES SOUTH, LLC

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
 353' FNL-1608' FEL Section 23 Township 07N Range 06W I.M.



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.

Date Staked: 03-21-18
 Date Drawn: 03-21-18



Randall J. Bilyeu

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.

Oklahoma PLS No.1196 DATE

EXHIBIT: A (3 of 3)
 SHEET: 8.5x14
 SHL: 23-07N-06W
 BHL-5: 02-07N-06W

PETRO LAND SERVICES SOUTH, LLC

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



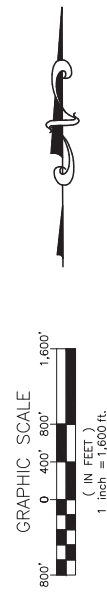
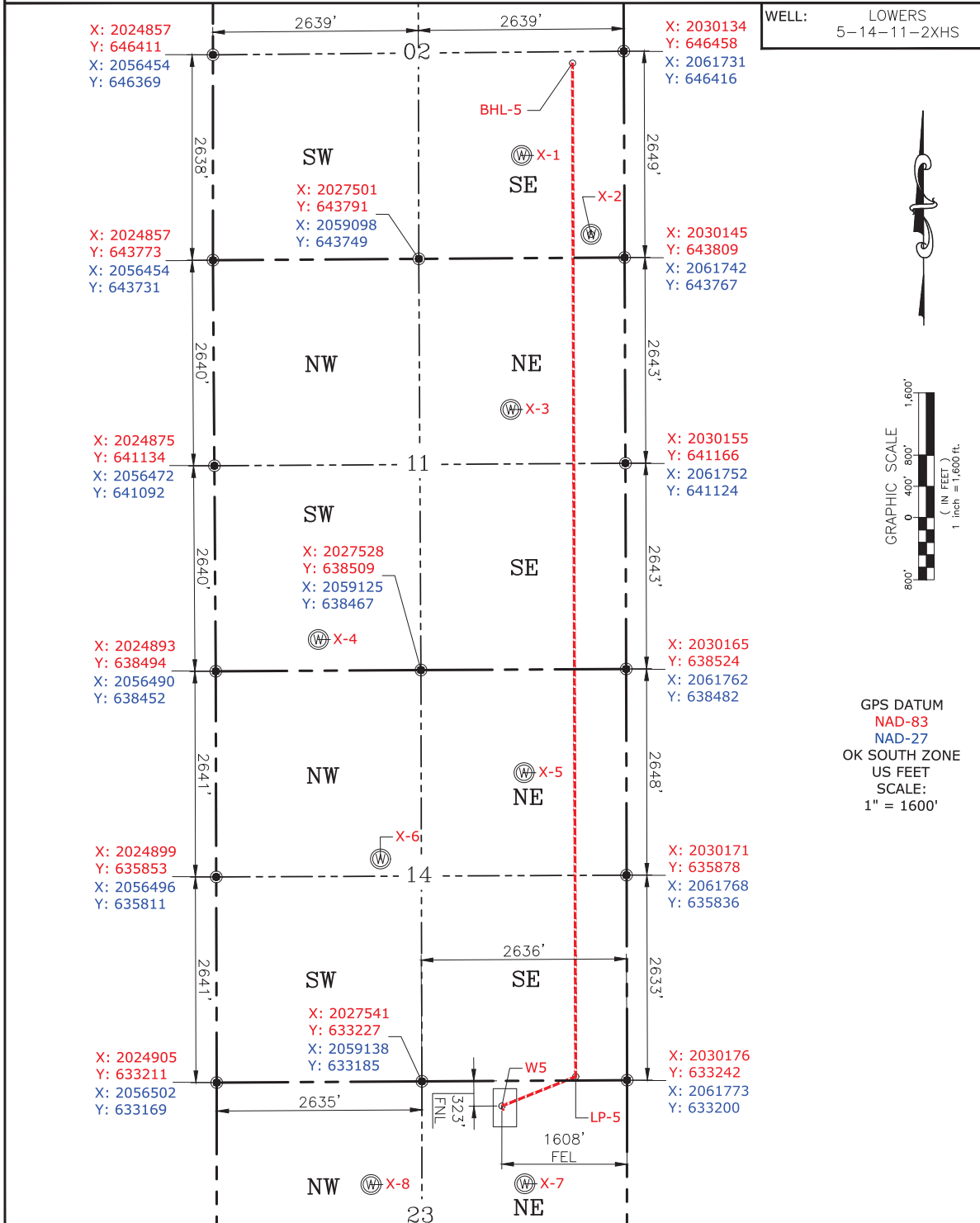
CONTINENTAL
 RESOURCES, INC
 (OPERATOR)

GRADY

County Oklahoma

323' FNL-1608' FEL Section 23 Township 07N Range 06W I.M.

WELL: LOWERS
5-14-11-2XHS



GPS DATUM
 NAD-83
 NAD-27
 OK SOUTH ZONE
 US FEET
 SCALE:
 1" = 1600'

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Date Staked: 03-21-18
 Date Drawn: 03-21-18



Randall J. Bilyeu

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.

Oklahoma PLS No.1196 DATE