

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

API NUMBER: 051 24735 B

Approval Date: 11/21/2019
Expiration Date: 05/21/2021

Horizontal Hole Oil & Gas
Multi Unit

Amend reason: CHANGE BHL

AMEND PERMIT TO DRILL

WELL LOCATION: Sec: 16 Twp: 7N Rge: 5W County: GRADY
SPOT LOCATION: SE NE SW NE FEET FROM QUARTER: FROM NORTH FROM EAST
SECTION LINES: 1715 1581

Lease Name: MILLS Well No: 4-16-21XHW Well will be 1581 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

THE DUSTY AND KELLY RICKS REVOCABLE TRUST,
FREDDY CLAYTON RICKS II, TRUSTEE
P.O. BOX 933
BLANCHARD OK 73010

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

| Name | Depth | Name | Depth |
|------------|-------|------|-------|
| 1 WOODFORD | 11522 | 6 | |
| 2 | | 7 | |
| 3 | | 8 | |
| 4 | | 9 | |
| 5 | | 10 | |

Spacing Orders: 644200 Location Exception Orders: Increased Density Orders: 704972
593309 705338

Pending CD Numbers: 201905013
201905014 Special Orders:

Total Depth: 20167 Ground Elevation: 1247 Surface Casing: 1500 Depth to base of Treatable Water-Bearing FM: 390

Deep surface casing has been approved

Under Federal Jurisdiction: No Fresh Water Supply Well Drilled: No Surface Water used to Drill: Yes

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: 5000 Average: 3000

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

D. One time land application -- (REQUIRES PERMIT) PERMIT NO: 19-36972
H. SEE MEMO

This permit does not address the right of entry or settlement of surface damages.
The duration of this permit is 18 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 21 Twp 7N Rge 5W County GRADY

Spot Location of End Point: SW SE SW SE

Feet From: NORTH 1/4 Section Line: 50

Feet From: EAST 1/4 Section Line: 1881

Depth of Deviation: 11100

Radius of Turn: 467

Direction: 183

Total Length: 8334

Measured Total Depth: 20167

True Vertical Depth: 11868

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

Notes:

Category

Description

DEEP SURFACE CASING

10/21/2019 - GC2 - 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

10/21/2019 - GC2 - 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

INCREASED DENSITY - 704972

11/21/2019 - GC2 - 16-7N-5W
X644200 WDFD
6 WELLS
NO OP. NAMED
11-7-2019

INCREASED DENSITY - 705338

11/21/2019 - GC2 - 21-7N-5W
X593309 WDFD
4 WELLS
NO OP. NAMED
11-19-2019

This permit does not address the right of entry or settlement of surface damages.

The duration of this permit is 18 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.

051 24735 MILLS 4-16-21XHW

| | |
|------------------------|---|
| MEMO | 10/21/2019 - GC2 - PITS 1 & 2 - CLOSED SYSTEM=STEEL PITS (REQUIRED - WINTER CREEK LAKE), PIT 2 - OBM RETURNED TO VENDOR, CUTTINGS PERMITTED PER DISTRICT |
| PENDING CD - 201905013 | 11/21/2019 - GC2 - (I.O.) 16 & 21-7N-5W EST MULTIUNIT HORIZONTAL WELL X644200 WDFD, OTHER 16-7N-5W XOTHER 16-7N-5W X593309 WDFD, OTHERS 21-7N-5W 33% 16-7N-5W 67% 21-7N-5W CONTINENTAL RESOURCES, INC. REC. 10-28-2019 (MILLER) |
| PENDING CD - 201905014 | 11/21/2019 - GC2 - (I.O.) 16 & 21-7N-5W X644200 WDFD, OTHER 16-7N-5W XOTHER 16-7N-5W X593309 WDFD, OTHERS 21-7N-5W X165:10-3-28(C)(2)(B) WDFD MAY BE CLOSER THAN 600' TO NABORS 1-33-28XHW AND NABORS 6-33-28XHW COMPL. INT. (16-7N-5W) NCT 660' FNL, NCT 0' FSL, NCT 1,320' FEL COMPL. INT. (21-7N-5W) NCT 0' FNL, NCT 150' FSL, NCT 1,320' FEL CONTINENTAL RESOURCES, INC. REC. 10-28-2019 (MILLER) |
| SPACING - 593309 | 11/21/2019 - GC2 - (640) 21-7N-5W EST WDFD, OTHERS EXT OTHERS |
| SPACING - 644200 | 11/21/2019 - GC2 - (640) 16-7N-5W VAC OTHERS VAC OTHER EXT (VER) OTHERS EST (VER) OTHERS EST (HOR) WDFD, OTHER COMPL. INT. (WDFD) NCT 330' FB |

EXHIBIT: A (1 of 5)
 SHEET: 8.5x11
 SHL: 16-7N-5W
 BHL-E4 9-7N-5W
 BHL-M4 21-7N-5W
 BHL-M5 21-7N-5W



COVER SHEET

CONTINENTAL RESOURCES, INC.

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

Section 16 Township 7N Range 5W I.M.Well: EMERY 4-16-9XHWCounty GRADY State OKWell: MILLS 4-16-21XHWOperator CONTINENTAL RESOURCES, INC.Well: MILLS 5-16-21XHW

NAD-83

| POINT | WELL NAME | NORTHING | EASTING | LATITUDE LONGITUDE | LATITUDE LONGITUDE | | EXISTING ELEVATION | DESIGN ELEVATION |
|--------|----------------------|----------|---------|-----------------------------------|-------------------------|---|-----------------------|---------------------|
| E4 | EMERY 4-16-9XHW | 636839 | 2049635 | 35° 04' 58.56" -97° 43' 43.74" | 35.082934 -97.728818 | 1745' FNL / 1581' FEL (NE/4 SEC 16) | 1248.61' | 1246.75' |
| LP-E4 | LANDING POINT | 636839 | 2049456 | 35° 04' 58.57" -97° 43' 45.90" | 35.082935 -97.729416 | 1745' FNL / 1760' FEL (NE/4 SEC 16) | --- | --- |
| BHL-E4 | BOTTOM HOLE LOCATION | 643815 | 2049446 | 35° 06' 07.56" -97° 43' 45.80" | 35.102101 -97.729388 | 50' FNL / 1760' FEL (NE/4 SEC 9) | --- | --- |
| M4 | MILLS 4-16-21XHW | 636889 | 2049635 | 35° 04' 58.86" -97° 43' 43.74" | 35.083017 -97.728817 | 1715' FNL / 1581' FEL (NE/4 SEC 16) | 1248.89' | 1246.75' |
| LP-M4 | LANDING POINT | 636888 | 2048823 | 35° 04' 58.87" -97° 43' 53.52" | 35.083019 -97.731532 | 1715' FNL / 2393' FEL (NE/4 SEC 16) | --- | --- |
| PI-M4 | POINT OF INTERSECT | 633301 | 2048914 | 35° 04' 23.59" -97° 43' 52.54" | 35.073219 -97.731260 | 0' FSL / 2310' FEL (SE/4 SEC 18) | --- | --- |
| BHL-M4 | BOTTOM HOLE LOCATION | 628068 | 2049359 | 35° 03' 31.80" -97° 43' 47.35" | 35.058833 -97.729819 | 50' FSL / 1881' FEL (SE/4 SEC 21) | --- | --- |
| M5 | MILLS 5-16-21XHW | 636899 | 2049635 | 35° 04' 59.16" -97° 43' 43.74" | 35.083099 -97.728817 | 1685' FNL / 1581' FEL (NE/4 SEC 16) | 1248.94' | 1246.75' |
| LP-M5 | LANDING POINT | 636900 | 2049854 | 35° 04' 59.16" -97° 43' 41.11" | 35.083099 -97.728085 | 1685' FNL / 1362' FEL (NE/4 SEC 16) | --- | --- |
| PI-M5 | POINT OF INTERSECT | 633303 | 2049904 | 35° 04' 23.58" -97° 43' 40.63" | 35.073216 -97.727952 | 0' FSL / 1320' FEL (SE/4 SEC 16) | --- | --- |
| BHL-M5 | BOTTOM HOLE LOCATION | 628067 | 2050563 | 35° 03' 31.77" -97° 43' 32.87" | 35.058826 -97.725796 | 50' FSL / 677' FEL (SE/4 SEC 21) | --- | --- |
| X-1 | VERSEN #1-9 | 642357 | 2049899 | 35° 05' 53.13" -97° 43' 42.80" | 35.098092 -97.728555 | 9-7N-5W: TD: 12,285' 1,509' FNL / 1,509' FEL | --- | --- |
| X-2 | EMERY #1-9-16XH | 643483 | 2050824 | 35° 06' 04.24" -97° 43' 29.22" | 35.101179 -97.724783 | 9-7N-5W: TD: 6,759' 385' FNL / 382' FEL | --- | --- |
| X-3 | MIDDLEBERG SWD #1 | 640333 | 2047785 | 35° 05' 33.17" -97° 44' 05.90" | 35.092547 -97.734972 | 9-7N-5W: TD: 8,050' 1,752' FSL / 1,840' FWL | --- | --- |
| X-4 | RICKS #7-5-4-1H | 642901 | 2047802 | 35° 05' 58.57" -97° 44' 05.61" | 35.099603 -97.734892 | 9-7N-5W: TD: 17,012' 960' FNL / 1,870' FWL | --- | --- |
| X-5 | MILLS #1-21H | 628272 | 2046949 | 35° 03' 33.90" -97° 44' 16.33" | 35.059416 -97.737870 | 21-7N-5W: TD: 16,400' 255' FSL / 990' FWL | --- | --- |
| X-6 | STRASSLE #1-28-33XH | 628634 | 2045889 | 35° 03' 37.48" -97° 44' 17.04" | 35.060411 -97.738067 | 21-7N-5W: TD: 17,873' 617' FSL / 930' FWL | --- | --- |
| X-7 | EMERY #1R-9-16XH | 643450 | 2050794 | 35° 06' 03.92" -97° 43' 29.59" | 35.101088 -97.724883 | 9-7N-5W: TD: 21,281' 418' FNL / 412' FEL | --- | --- |

REVISIONS

| No. | DATE | BY | DESCRIPTION | COMMENTS |
|-----|----------|-----|-----------------------|---------------------------------|
| 00 | 6-19-19 | HDG | ISSUED FOR APPROVAL | --- |
| 01 | 7-31-19 | HDG | MOVED PAD NORTH | REV'D ALL EXHIBITS |
| 02 | 9-16-19 | HDG | REV'D ACCESS ROAD | REV'D EXHIBITS F,G & "A" |
| 03 | 10-7-19 | HDG | REV'D ACCESS ROAD | REV'D EXHIBITS B,F,G,H,I & "A" |
| 04 | 11-12-19 | HDG | REV'D X-1 | REV'D EXHIBITS A1-A3 |
| 05 | 11-13-19 | HDG | REV MILLS 4 & 5 BHL'S | REV'D EXHIBITS A1, A2, A4, & A5 |

Certificate of Authorization No. 7318

Date Staked: 8-2-19
 Date Drawn: 11-13-19



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

EXHIBIT: A (2 of 5)SHEET: 8.5x11SHL: 16-7N-5WBHL-E4 9-7N-5WBHL-M4 21-7N-5WBHL-M5 21-7N-5W

COVER SHEET CONTINUED...

CONTINENTAL RESOURCES, INC.

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

Section 16 Township 7N Range 5W I.M.Well: EMERY 4-16-9XHWCounty GRADY State OKWell: MILLS 4-16-21XHWOperator CONTINENTAL RESOURCES, INC.Well: MILLS 5-16-21XHW

NAD-27

| POINT | WELL NAME | NORTHING | EASTING | LATITUDE LONGITUDE | LATITUDE LONGITUDE | | EXISTING ELEVATION | DESIGN ELEVATION |
|--------|----------------------|----------|---------|-----------------------------------|-------------------------|---|-----------------------|---------------------|
| E4 | EMERY 4-16-9XHW | 636797 | 2081232 | 35° 04' 58.32" -97° 43' 42.60" | 35.082867 -97.728501 | 1745' FNL / 1581' FEL (NE/4 SEC 16) | 1248.61' | 1248.75' |
| LP-E4 | LANDING POINT | 636797 | 2081053 | 35° 04' 58.33" -97° 43' 44.76" | 35.082869 -97.729099 | 1745' FNL / 1760' FEL (NE/4 SEC 16) | --- | --- |
| BHL-E4 | BOTTOM HOLE LOCATION | 643773 | 2081043 | 35° 06' 07.32" -97° 43' 44.65" | 35.102034 -97.729071 | 50' FNL / 1760' FEL (NE/4 SEC 9) | --- | --- |
| M4 | MILLS 4-16-21XHW | 636827 | 2081232 | 35° 04' 58.62" -97° 43' 42.60" | 35.082950 -97.728500 | 1715' FNL / 1581' FEL (NE/4 SEC 16) | 1248.69' | 1248.75' |
| LP-M4 | LANDING POINT | 636826 | 2080420 | 35° 04' 58.63" -97° 43' 52.37" | 35.082953 -97.731215 | 1715' FNL / 2393' FEL (NE/4 SEC 16) | --- | --- |
| PI-M4 | POINT OF INTERSECT | 633259 | 2080511 | 35° 04' 23.35" -97° 43' 51.39" | 35.073152 -97.730943 | 0' FSL / 2310' FEL (SE/4 SEC 16) | --- | --- |
| BHL-M4 | BOTTOM HOLE LOCATION | 628024 | 2080956 | 35° 03' 31.56" -97° 43' 48.21" | 35.058766 -97.729502 | 50' FSL / 1881' FEL (SE/4 SEC 21) | --- | --- |
| M5 | MILLS 5-16-21XHW | 636857 | 2081232 | 35° 04' 58.92" -97° 43' 42.60" | 35.083032 -97.728500 | 1685' FNL / 1581' FEL (NE/4 SEC 16) | 1248.94' | 1248.75' |
| LP-M5 | LANDING POINT | 636858 | 2081451 | 35° 04' 58.92" -97° 43' 39.97" | 35.083033 -97.727769 | 1685' FNL / 1382' FEL (NE/4 SEC 16) | --- | --- |
| PI-M5 | POINT OF INTERSECT | 633260 | 2081501 | 35° 04' 23.34" -97° 43' 39.48" | 35.073149 -97.727835 | 0' FSL / 1320' FEL (SE/4 SEC 16) | --- | --- |
| BHL-M5 | BOTTOM HOLE LOCATION | 628025 | 2082160 | 35° 03' 31.53" -97° 43' 31.73" | 35.058759 -97.725479 | 50' FSL / 677' FEL (SE/4 SEC 21) | --- | --- |
| X-1 | VIERSEN #1-9 | 642314 | 2081296 | 35° 05' 52.69" -97° 43' 41.65" | 35.098026 -97.728237 | 9-7N-5W: TD: 12,285' 1,509' FNL / 1,509' FEL | --- | --- |
| X-2 | EMERY #1-9-16XH | 643441 | 2082421 | 35° 06' 04.00" -97° 43' 28.08" | 35.101112 -97.724466 | 9-7N-5W: TD: 6,759' 385' FNL / 382' FEL | --- | --- |
| X-3 | MIDDLEBERG SWD #1 | 640291 | 2079382 | 35° 05' 32.93" -97° 44' 04.76" | 35.092481 -97.734654 | 9-7N-5W: TD: 8,050' 1,752' FSL / 1,840' FWL | --- | --- |
| X-4 | RICKS #7-5-4-1H | 642859 | 2079399 | 35° 05' 58.33" -97° 44' 04.47" | 35.099537 -97.734574 | 9-7N-5W: TD: 17,012' 980' FNL / 1,870' FWL | --- | --- |
| X-5 | MILLS #1-21H | 628230 | 2078546 | 35° 03' 33.68" -97° 44' 15.19" | 35.059349 -97.737552 | 21-7N-5W: TD: 16,400' 255' FSL / 990' FWL | --- | --- |
| X-6 | STRASSLE #1-28-33XH | 628592 | 2078486 | 35° 03' 37.24" -97° 44' 15.90" | 35.060344 -97.737749 | 21-7N-5W: TD: 17,873' 617' FSL / 930' FWL | --- | --- |
| X-7 | EMERY #1R-9-16XH | 643407 | 2082391 | 35° 06' 03.68" -97° 43' 28.44" | 35.101022 -97.724566 | 9-7N-5W: TD: 21,281' 418' FNL / 412' FEL | --- | --- |

Certificate of Authorization No. 7318

Date Staked: 8-2-19

Date Drawn: 11-13-19



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

CURRENT REV.: 5

EXHIBIT: A (4 of 5)
SHEET: 8.5x14
SHL: 16-7N-5W
BHL-M4 21-7N-5W

PETRO LAND SERVICES SOUTH, LLC

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



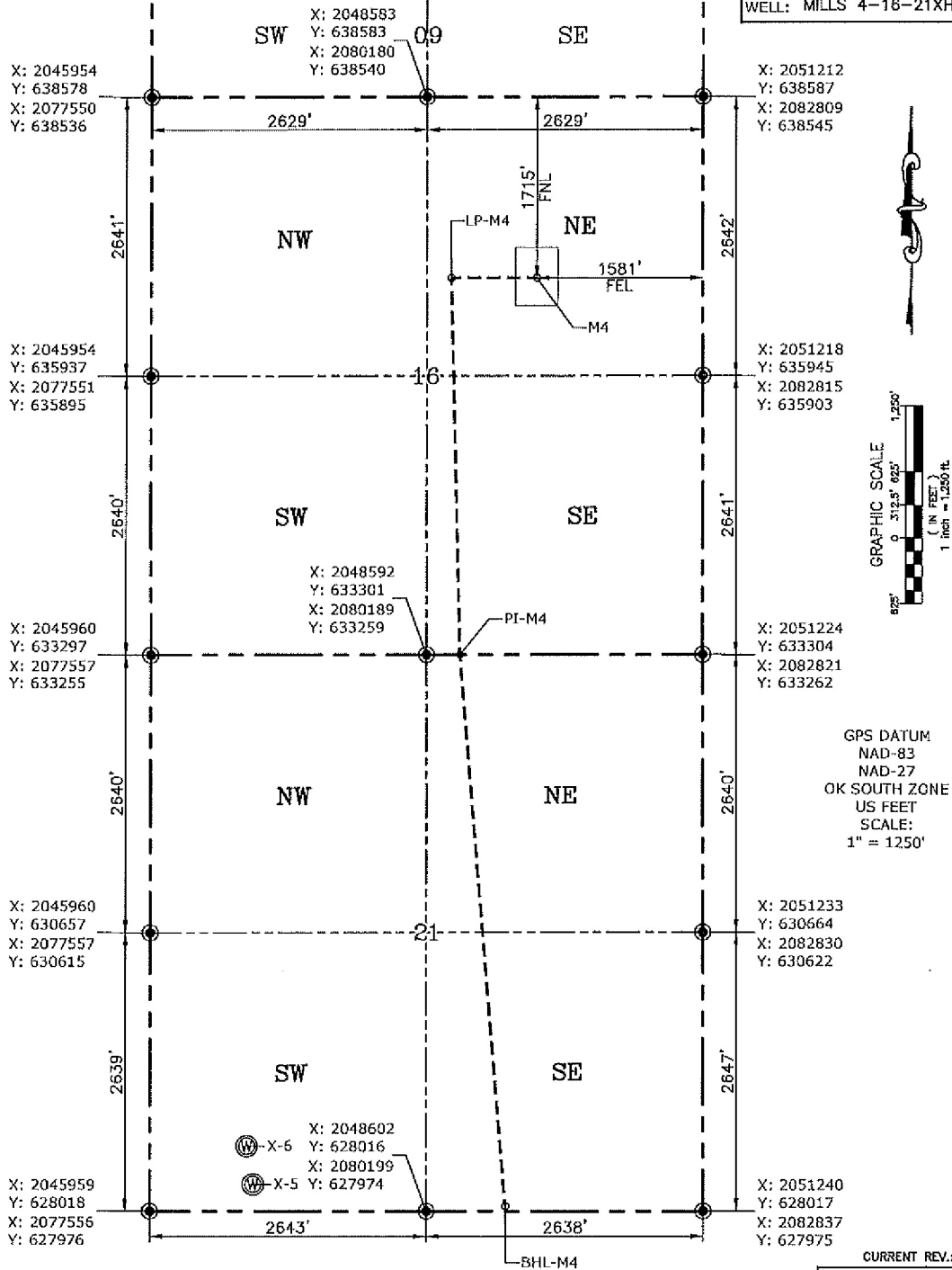
CONTINENTAL
RESOURCES, INC
(OPERATOR)

GRADY

County Oklahoma

1715' FNL-1581' FEL Section 16 Township 7N Range 5W I.M.

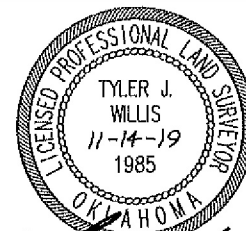
WELL: MILLS 4-16-21XHW



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, TYLER J. WILLIS an Oklahoma Licensed Land Surveyor and an authorized agent of Petro Land Services South, LLC, do hereby certify to the information shown herein.



Tyler J. Willis
Oklahoma PLS No.1985 DATE