

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

API NUMBER: 011 24111

Approval Date: 10/19/2018

Expiration Date: 04/19/2020

Horizontal Hole Oil & Gas

PERMIT TO DRILL

WELL LOCATION: Sec: 19 Twp: 15N Rge: 10W

County: BLAINE

SPOT LOCATION: ☐ SE ☐ SW ☐ SE ☐ SW

FEET FROM QUARTER: FROM SOUTH FROM WEST

SECTION LINES: 230 1850

Lease Name: SCHULTE FIU

Well No: 4-19-18XHM

Well will be 295 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

EVA CARTER & STEPHEN CARTER, TTEES
14009 WESTBURY AVE
BAKERSFIELD CA 93314

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

	Name	Depth	Name	Depth
1	MISSISSIPPIAN	10990	6	
2	MISSISSIPPI LIME	11000	7	
3			8	
4			9	
5			10	

Spacing Orders: 656754
579331

Location Exception Orders:

Increased Density Orders:

Pending CD Numbers: 201805460
201805461
201805474
201805472

Special Orders:

Total Depth: 21605

Ground Elevation: 1465

Surface Casing: 1500

Depth to base of Treatable Water-Bearing FM: 130

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 AP/TE DEPOSIT

Pit Location Formation: TERRACE

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

PERMIT NO: 18-35382

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 AP/TE DEPOSIT

Pit Location Formation: TERRACE

HORIZONTAL HOLE 1

Sec 18 Twp 15N Rge 10W County BLAINE

Spot Location of End Point: N2 NW NE NW

Feet From: NORTH 1/4 Section Line: 50

Feet From: WEST 1/4 Section Line: 1650

Depth of Deviation: 10557

Radius of Turn: 477

Direction: 360

Total Length: 10299

Measured Total Depth: 21605

True Vertical Depth: 11059

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

Notes:

Category

Description

DEEP SURFACE CASING

9/14/2018 - 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

9/14/2018 - 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

INTERMEDIATE CASING

9/14/2018 - G71 - DUE TO THE KNOWN POTENTIAL RISK OF ENCOUNTERING AN OVER-PRESSURED ZONE IN THE MORROW SERIES IN THIS AREA, THE TECHNICAL MANAGER RECOMMENDS SETTING AN INTERMEDIATE STRING OF CASING IMMEDIATELY ABOVE THE MORROW SERIES

MEMO

9/14/2018 - 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 24111 SCHULTE FIU 4-19-18XHM

Category	Description
PENDING CD - 201805460	10/15/2018 - G58 - (I.O.) 18 & 19-15N-10W X656754 MSSP 18-15N-10W X579331 MSSLM 19-15N-10W COMPL. INT. 19-15N-10W NCT 150' FSL, NCT 0' FNL, NCT 990' FWL COMPL. INT. 18-15N-10W NCT 0' FSL, NCT 150' FNL, NCT 990' FWL NO OP. NAMED REC 9/10/2018 (DENTON)
PENDING CD - 201805461	10/15/2018 - G58 - (I.O.) 18 & 19-15N-10W EST MULTIUNIT HORIZONTAL WELL X656754 MSSP 18-15N-10W X579331 MSSLM 19-15N-10W 50% 18-15N-10W 50% 19-15N-10W NO OP. NAMED REC 9/10/2018 (DENTON)
PENDING CD - 201805472	10/15/2018 - G58 - 18-15N-10W X656754 MSSP 7 WELLS NO OP. NAMED REC 9/10/2018 (DENTON)
PENDING CD - 201805474	10/15/2018 - G58 - 19-15N-10W X579331 MSSLM 7 WELLS NO OP. NAMED REC 9/10/2018 (DENTON)
SPACING - 579331	10/15/2018 - G58 - (640) 19-15N-10W EXT 569532/157570 MSSLM
SPACING - 656754	10/15/2018 - G58 - (640) 18-15N-10W EXT 648028 MSSP, OTHERS

EXHIBIT: A (1 of 2)
SHEET: 8.5x11
SHL: 19-15N-10W
BHL-4 18-15N-10W



COVER SHEET

CONTINENTAL RESOURCES, INC.

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

011-24111

Section 19 Township 15N Range 10W I.M.

Well: SCHULTE FIU 4-19-18XHM

County BLAINE State OK

Well: ----

Operator CONTINENTAL RESOURCES, INC.

NAD-83							EXISTING ELEVATION	DESIGN ELEVATION
POINT	WELL NAME	NORTHING	EASTING	LATITUDE LONGITUDE	LATITUDE LONGITUDE			
W4	SCHULTE FIU 4-19-18XHM	274897	1877421	35° 45' 17.21" -98° 18' 25.05"	35.754780 -98.306957	230' FSL / 1850' FWL (SW/4 SEC 19)	1479.73'	1481.37'
LP-4	LANDING POINT	274897	1877441	35° 45' 17.21" -98° 18' 24.80"	35.754781 -98.306889	230' FSL / 1870' FWL (SW/4 SEC 19)	--	--
BHL-4	BOTTOM HOLE LOCATION	285196	1877492	35° 46' 59.06" -98° 18' 24.57"	35.783072 -98.306826	50' FNL / 1870' FWL (NW/4 SEC 18)	--	--
X-1	STOVER UNIT #1	281444	1879326	35° 46' 22.01" -98° 18' 02.17"	35.772781 -98.300603	18-15N-10W:SE4 TD: 9,917' 1,470' FSL / 1,320' FWL	--	--
X-2	GOODEN #1	282444	1876934	35° 46' 31.83" -98° 18' 31.25"	35.775509 -98.308679	18-15N-10W:NW4NE4SW4 TD: 9,980' 2,490' FSL / 1,320' FWL	--	--
X-3	RING #1-18	283950	1879330	35° 46' 46.80" -98° 18' 02.22"	35.779667 -98.300617	18-15N-10W:NE4 TD: 9,850' 1,320' FNL / 1,320' FEL	--	--
X-4	BONNIE STEWART UNIT #1	278634	1876917	35° 45' 31.83" -98° 18' 31.30"	35.765042 -98.308695	19-15N-10W:NW4 TD: 9,927' 1,320' FSL / 1,320' FWL	--	--
X-5	WALKER "G" #1	275994	1879328	35° 45' 28.11" -98° 18' 01.94"	35.757810 -98.300540	19-15N-10W:SE4 TD: 10,023' 1,320' FSL / 1,320' FWL	--	--
X-6	SCHULTE #1-19H	274907	1875921	35° 45' 17.26" -98° 18' 43.24"	35.754794 -98.312012	19-15N-10W:SE4SW4SW4SW4 TD: 16,350' 245' FSL / 350' FWL	--	--
X-7	LAWRENCE WALKER #1	275322	1876034	35° 45' 21.37" -98° 18' 41.89"	35.755936 -98.311636	19-15N-10W:SW4NE4 TD: 10,013' 660' FSL / 460' FWL	--	--

NAD-27							EXISTING ELEVATION	DESIGN ELEVATION
POINT	WELL NAME	NORTHING	EASTING	LATITUDE LONGITUDE	LATITUDE LONGITUDE			
W4	SCHULTE FIU 4-19-18XHM	274873	1909021	35° 45' 17.05" -98° 18' 23.81"	35.754735 -98.306614	230' FSL / 1850' FWL (SW/4 SEC 19)	1479.73'	1481.37'
LP-4	LANDING POINT	274873	1909041	35° 45' 17.05" -98° 18' 23.56"	35.754736 -98.306545	230' FSL / 1870' FWL (SW/4 SEC 19)	--	--
BHL-4	BOTTOM HOLE LOCATION	285172	1909092	35° 46' 58.90" -98° 18' 23.33"	35.783028 -98.306482	50' FNL / 1870' FWL (NW/4 SEC 18)	--	--
X-1	STOVER UNIT #1	281420	1910926	35° 46' 21.85" -98° 18' 00.93"	35.772737 -98.300260	18-15N-10W:SE4 TD: 9,917' 1,470' FSL / 1,320' FWL	--	--
X-2	GOODEN #1	282420	1908534	35° 46' 31.67" -98° 18' 30.01"	35.775465 -98.308335	18-15N-10W:NW4NE4SW4 TD: 9,980' 2,490' FSL / 1,320' FWL	--	--
X-3	RING #1-18	283926	1910930	35° 46' 46.64" -98° 18' 00.98"	35.779623 -98.300273	18-15N-10W:NE4 TD: 9,850' 1,320' FNL / 1,320' FEL	--	--
X-4	BONNIE STEWART UNIT #1	278610	1908517	35° 45' 53.99" -98° 18' 30.06"	35.764997 -98.308351	19-15N-10W:NW4 TD: 9,927' 1,320' FSL / 1,320' FWL	--	--
X-5	WALKER "G" #1	275970	1910928	35° 45' 27.95" -98° 18' 00.71"	35.757765 -98.300196	19-15N-10W:SE4 TD: 10,023' 1,320' FSL / 1,320' FWL	--	--
X-6	SCHULTE #1-19H	274883	1907521	35° 45' 17.10" -98° 18' 42.00"	35.754749 -98.311668	19-15N-10W:SE4SW4SW4SW4 TD: 16,350' 245' FSL / 350' FWL	--	--
X-7	LAWRENCE WALKER #1	275298	1907634	35° 45' 21.21" -98° 18' 40.65"	35.755891 -98.311292	19-15N-10W:SW4NE4 TD: 10,013' 660' FSL / 460' FWL	--	--

Certificate of Authorization No. 7318

Date Staked: **--18
Date Drawn: 10-17-18



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

REVISIONS

No.	DATE	BY	DESCRIPTION	COMMENTS
00	10-17-18	HDG	ISSUED FOR APPROVAL	--

EXHIBIT: A (2 of 2)
SHEET: 8.5x14
SHL: 19-15N-10W
BHL-4 18-15N-10W

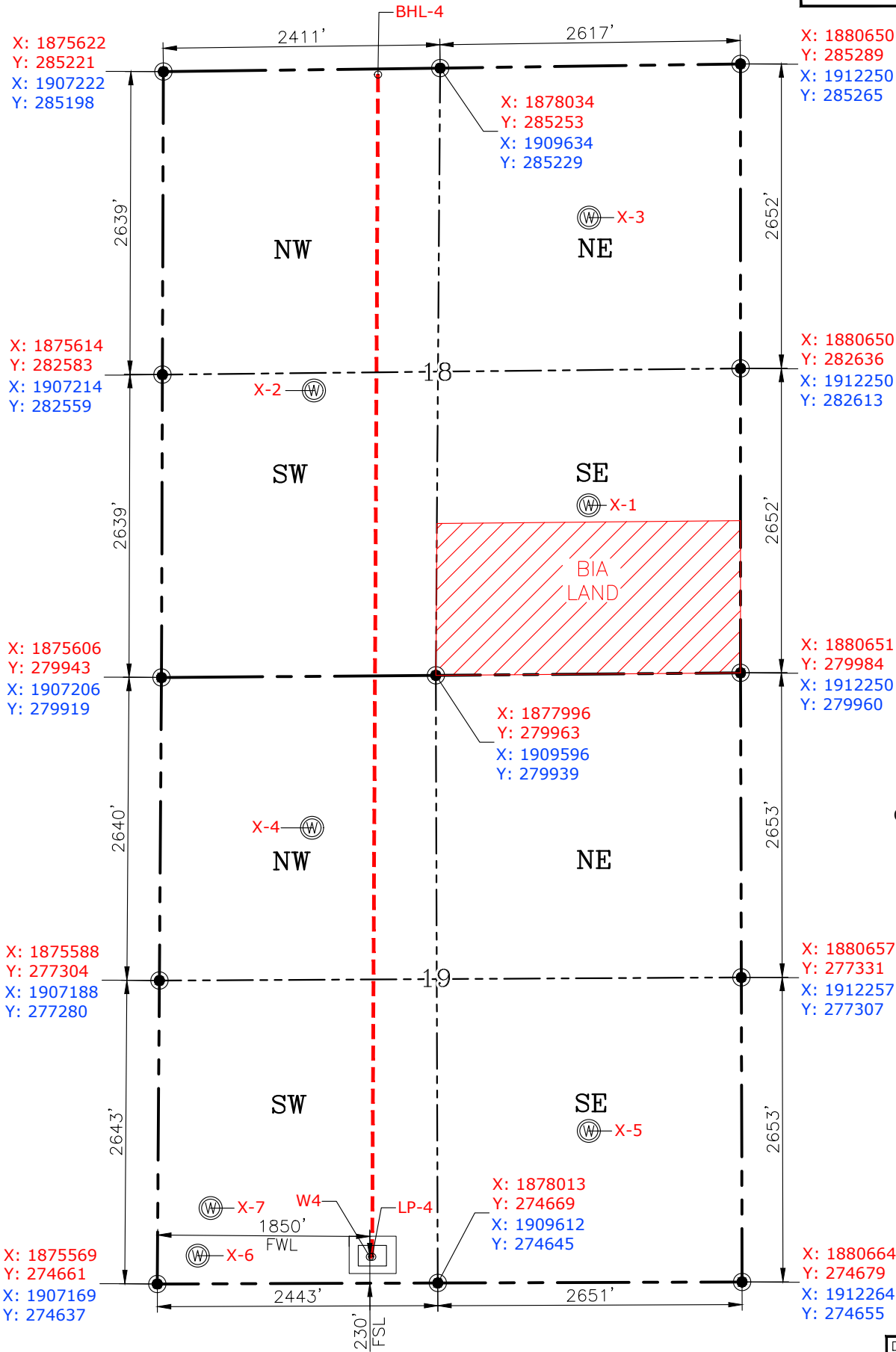
PETRO LAND SERVICES SOUTH, LLC
10400 VINEYARD BLVD. SUITE C, OKLA. CITY, OKLA. 73120 * OFFICE (405) 212-3108
Certificate of Authorization No. 7318



CONTINENTAL
RESOURCES, INC
(OPERATOR)

BLAINE County Oklahoma
230' FSL-1850' FWL Section 19 Township 15N Range 10W I.M.

WELL: SCHULTE FIU
4-19-18XHM

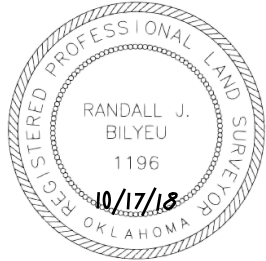


CURRENT REV.: 0
Date Drawn: 10-17-18

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 J. Bilyeu

Oklahoma PLS No.1196 DATE

EXHIBIT: B
SHEET: 8.5x11
SHL: 19-15N-10W
BHL-4 18-15N-10W

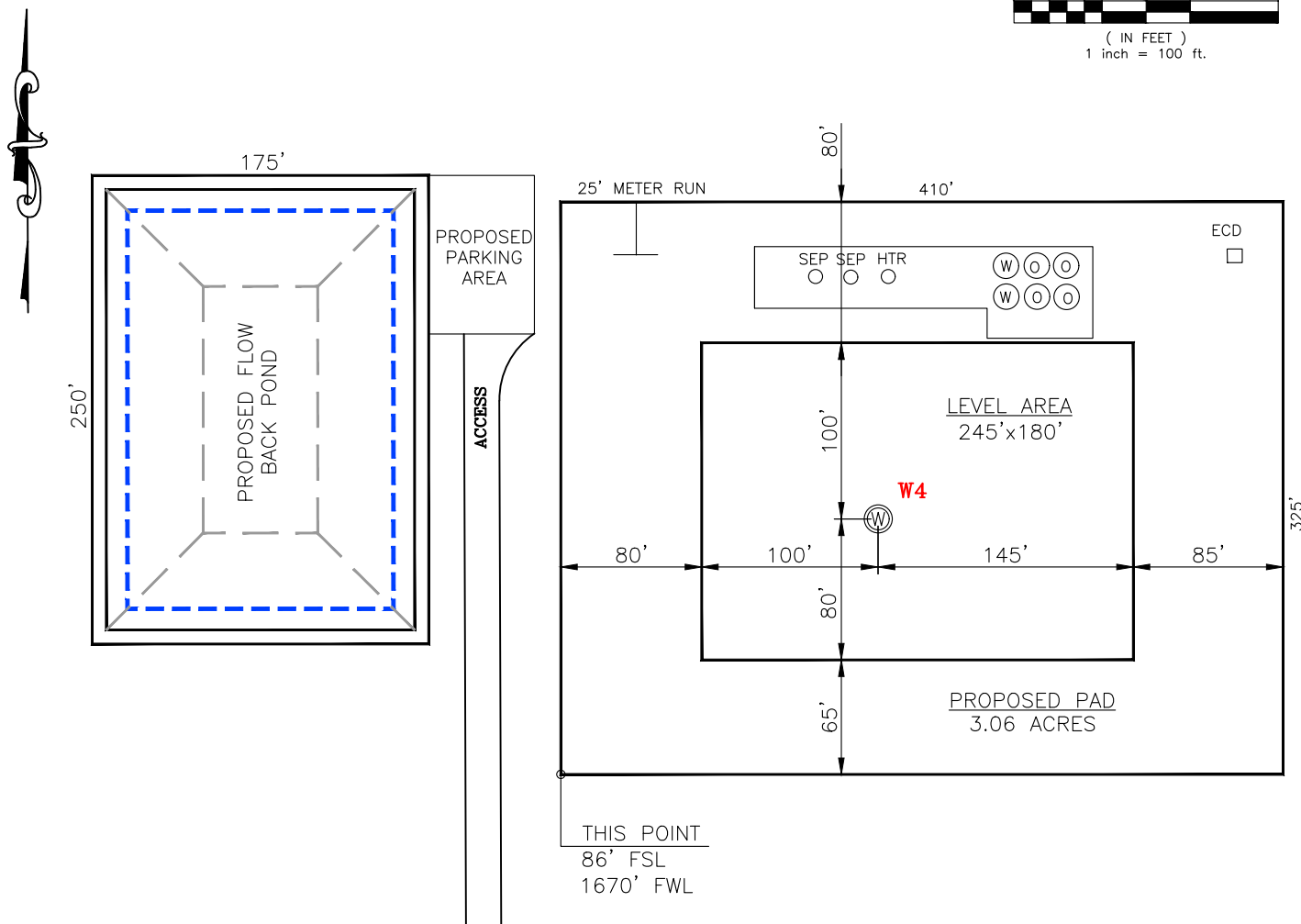
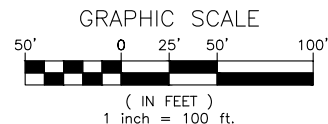
PETRO LAND SERVICES SOUTH, LLC

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
230' FSL-1850' FWL Section 19 Township 15N Range 10W I.M.



CURRENT REV.: 0

DATUM: NAD-83
LAT: 35°45'17.21"
LONG: -98°18'25.05"
LAT: 35.754780°
LONG: -98.306957°

STATE PLANE
COORDINATES
(US FEET): OK NORTH

X: 1877421
Y: 274897

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: Leaving Watonga, head south on SH-8 for 7.43 miles. Turn left of E-0880 Rd. & head east for 4.50 miles. Turn left on N2630 Rd. & head north for 1.0 mile. Turn right on E0870 Rd & head east for 0.31 miles to the proposed access road.

THE INFORMATION SHOWN HEREIN IS FOR
CONSTRUCTION PURPOSES ONLY

Well W4: SCHULTE FIU 4-19-18XHM

Well --: ----

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

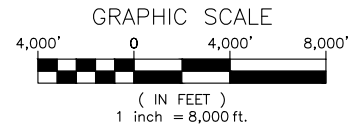


Prepared By:
Petro Land Services South
10400 Vineyard Blvd.
Suite C
Oklahoma City, OK 73120

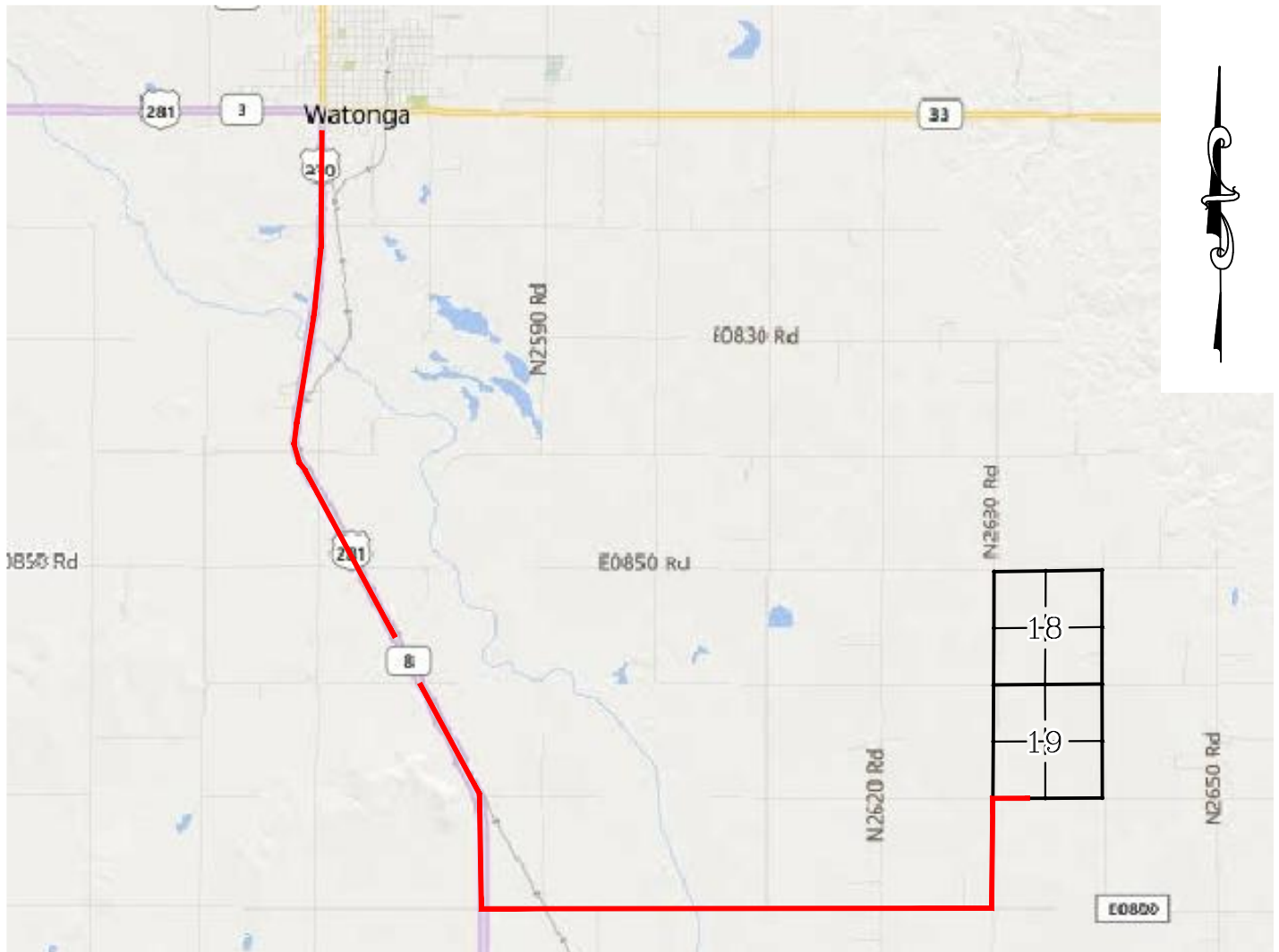
(This Information Was Gathered
With a GPS Receiver With ± 1
Foot Horiz./Vert. Accuracy)

Certificate of Authorization No. 7318

EXHIBIT: C
SHEET: 8.5x11
SHL: 19-15N-10W
BHL-4 18-15N-10W



VICINITY MAP



LEAVING WATONGA, HEAD SOUTH ON SH-8 FOR 7.43 MILES. TURN LEFT OF E-0880 RD. & HEAD EAST FOR 4.50 MILES. TURN LEFT ON N2630 RD. & HEAD NORTH FOR 1.0 MILE. TURN RIGHT ON E0870 RD & HEAD EAST FOR 0.31 MILES TO THE PROPOSED ACCESS ROAD.

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 19 Township 15N Range 10W I.M. Well W4: SCHULTE FIU 4-19-18XHM

County BLAINE State OK Well --: ----

Operator CONTINENTAL RESOURCES, INC.



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

CURRENT REV.: 0

EXHIBIT: D
SHEET: 8.5x11
SHL: 19-15N-10W
BHL-4 18-15N-10W



WELL W4: SCHULTE FIU 4-19-18XHM
WELL --: ----

FACING NORTH

(NO IMAGES AVAILABLE)

FACING SOUTH

(NO IMAGES AVAILABLE)

CURRENT REV.: 0



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

TERRAIN

DRAWN BY:	HDG	SCALE:	N.T.S.
CHECKED BY:	MJL	JOB No.:	--
APPROVED BY:	--	DWG. NO.:	TERRAIN-1
DATE ISSUED:	10-17-18	SHEET:	1 OF 2

EXHIBIT: E
SHEET: 8.5x11
SHL: 19-15N-10W
BHL-4 18-15N-10W



WELL W4: SCHULTE FIU 4-19-18XHM
WELL --: ----

FACING EAST

(NO IMAGES AVAILABLE)

FACING WEST

(NO IMAGES AVAILABLE)

CURRENT REV.: 0



Prepared By:
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Oklahoma City, OK 73120

TERRAIN

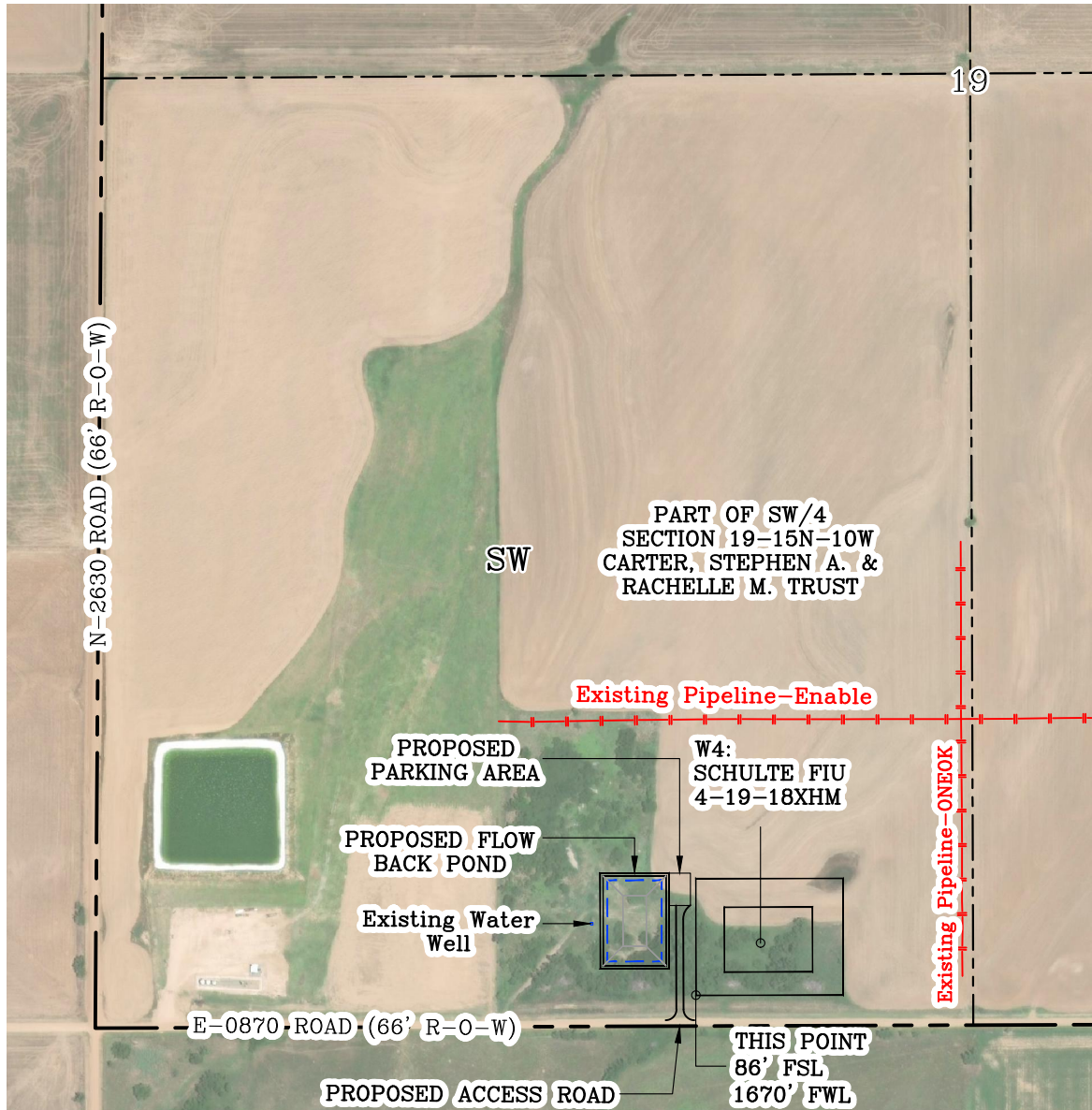
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CHECKED BY:	MJL	JOB No.:	--
APPROVED BY:	--	DWG. NO.:	TERRAIN-2
DATE ISSUED:	10-17-18	SHEET:	2 OF 2

EXHIBIT: F
SHEET: 8.5x11
SHL: 19-15N-10W
BHL-4: 18-15N-10W



WELL W4: SCHULTE FIU 4-19-18XHM
WELL --: ----

PROPOSED ACCESS ROAD = 330' | 20.00 RODS (TOTAL)

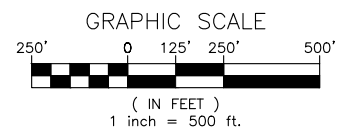


GPS DATUM - OK NORTH ZONE
US FEET SCALE: 1" = 500'

Section 19 Township 15N Range 10W I.M.

County BLAINE State OK

Operator CONTINENTAL RESOURCES, INC.



CURRENT REV.: 0



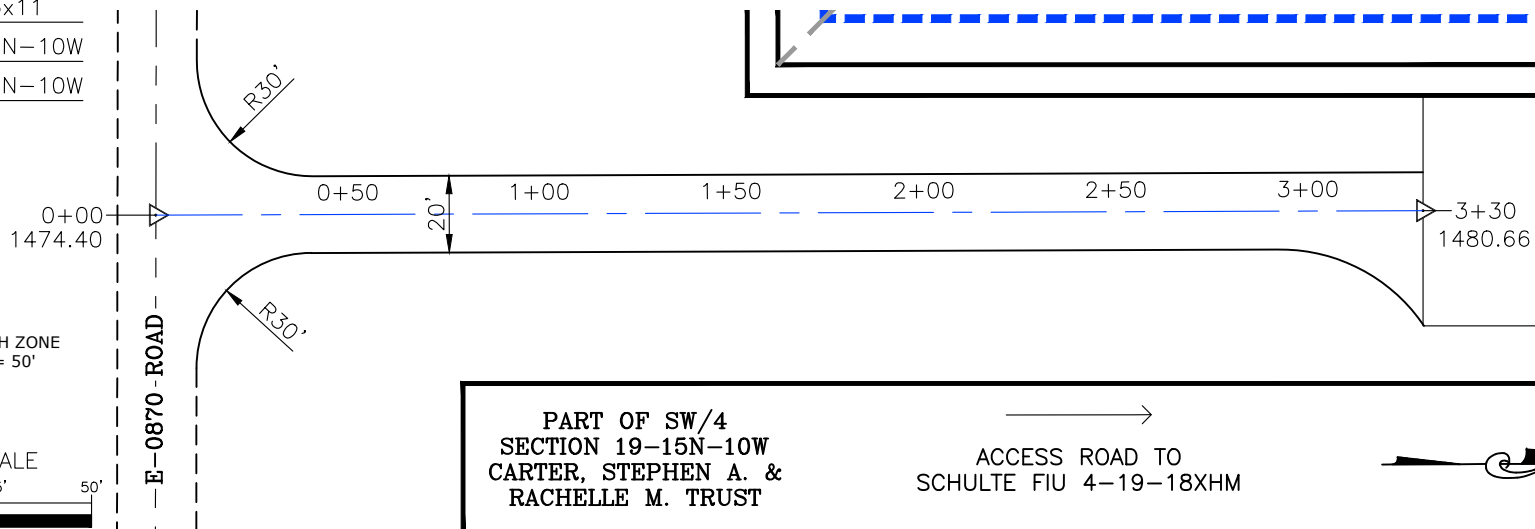
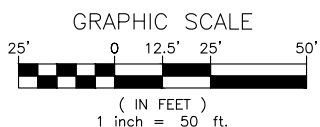
Prepared By:
Petro Land Services South
10400 Vineyard Blvd.
Suite C
Oklahoma City, OK 73120

AERIAL PLAT

DRAWN BY:	HDG	SCALE:	1" = 500'
CHECKED BY:	MJL	JOB No.:	--
APPROVED BY:	--	DWG. NO.:	AERIAL-1
DATE ISSUED:	10-17-18	SHEET:	1 OF 4

EXHIBIT: G
 SHEET: 8.5x11
 SHL: 19-15N-10W
 BHL-4 18-15N-10W

GPS DATUM - OK NORTH ZONE
 US FEET SCALE: 1" = 50'



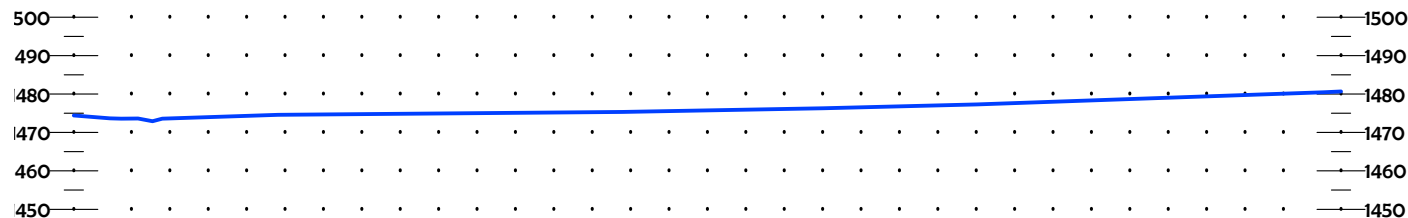
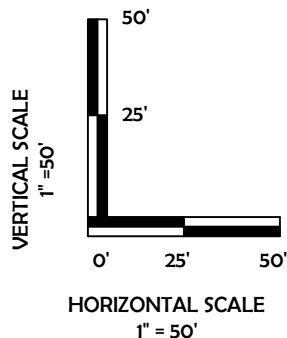
- * THIS PROPOSED LEASE ROAD PLAT DOES NOT REPRESENT A TRUE BOUNDARY SURVEY.
- * THE FOOTAGES AND TIES SHOWN HEREON ARE FROM LINES OF OCCUPATION AND MAY NOT BE FROM ACTUAL PROPERTY CORNERS.

SCHULTE FIU
 4-19-18XHM

Well W4: _____

Well --: _____

PROPOSED ACCESS ROAD = 330' | 20.00 RODS (TOTAL)



CURRENT REV.: 0



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



P.O. Box 26900
 Oklahoma City
 Oklahoma, 73126
 (T) 1-800-256-8955
 (F) 405-234-9253

LEASE ROAD PLAN & PROFILE

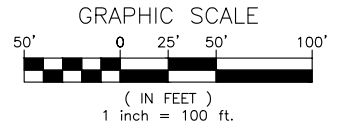
DRAWN BY:	HDG	SCALE:	AS NOTED
CHECKED BY:	MJL	JOB No.:	--
APPROVED BY:	--	DWG. NO.:	P&P
DATE ISSUED:	10-17-18	SHEET:	2 OF 4

EXHIBIT: H
 SHEET: 8.5x11
 SHL: 19-15N-10W
 BHL-4: 18-15N-10W

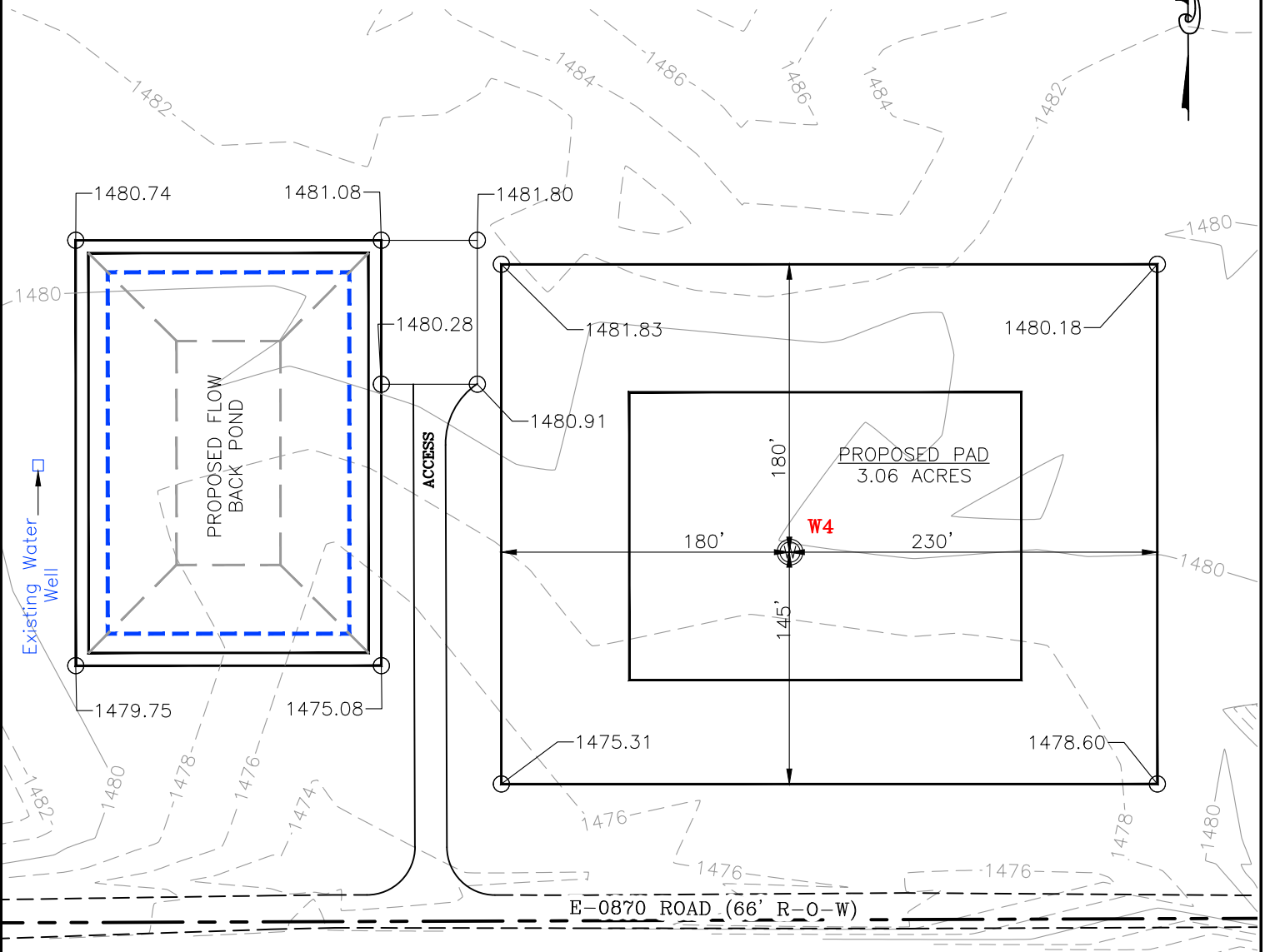


WELL W4: SCHULTE FIU 4-19-18XHM

WELL --: ----



GPS DATUM - OK NORTH ZONE
 US FEET SCALE: 1" = 100'



CURRENT REV.: 0



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

EXISTING GRADING PLAN

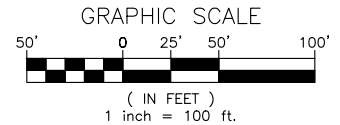
DRAWN BY:	HDG	SCALE:	1" = 100'
CHECKED BY:	MJL	JOB No.:	--
APPROVED BY:	--	DWG. NO.:	EX-GR.
DATE ISSUED:	10-17-18	SHEET:	3 OF 4

EXHIBIT: I
 SHEET: 8.5x11
 SHL: 19-15N-10W
 BHL-4 18-15N-10W



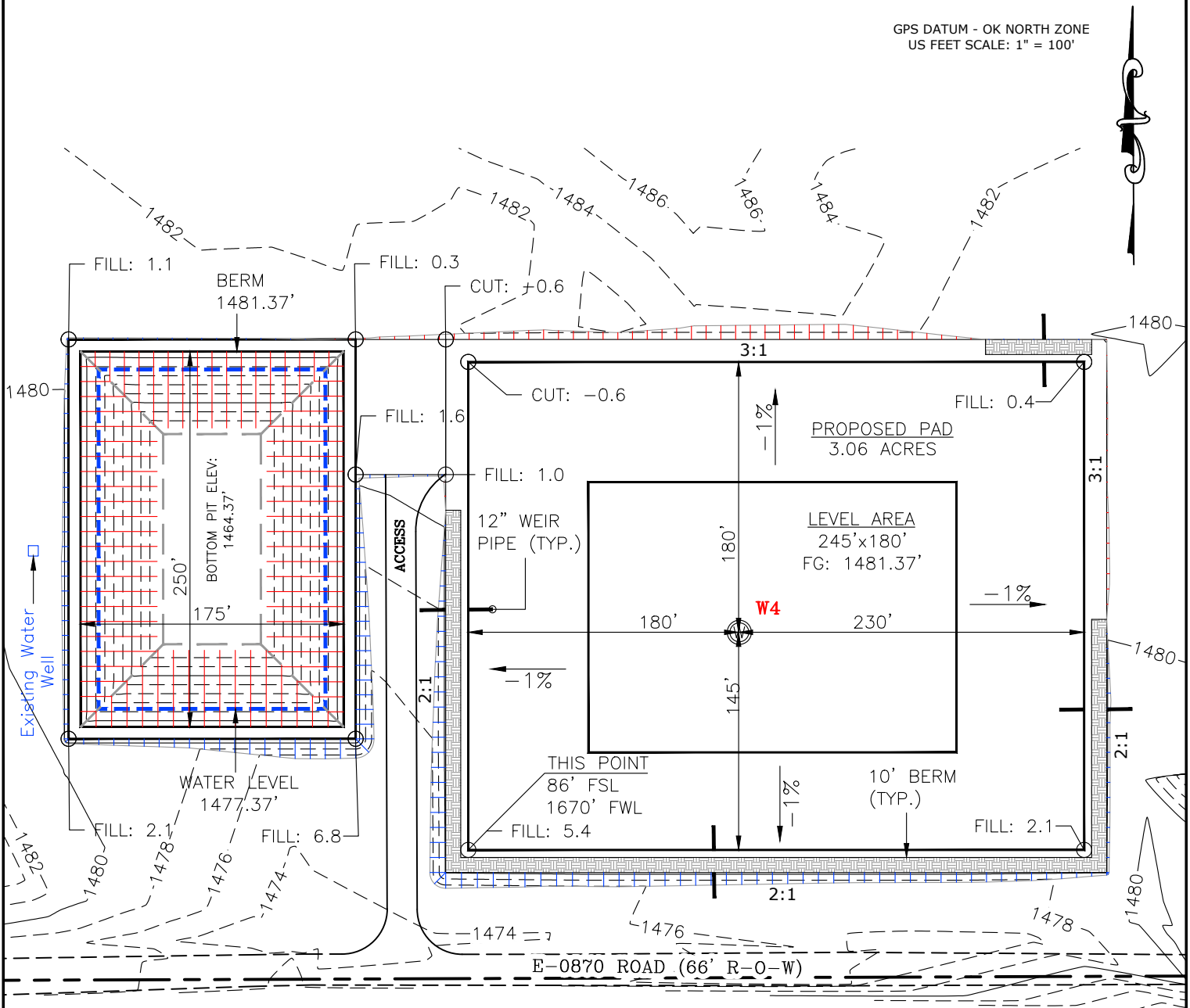
WELL W4: SCHULTE FIU 4-19-18XHM

WELL --: ----



TOTAL PROPOSED DISTURBED AREA: 5.16 ACRES

GPS DATUM - OK NORTH ZONE
 US FEET SCALE: 1" = 100'



CUT VOLUME 16105.61 CU. YD.
 FILL VOLUME 16103.77 CU. YD.

6" OF STRIPPED TOP SOIL: 4,163.03 CU. YD.
 BERM LENGTH: 901' (603.67 CU. YD.)

(CUT/FILL VOLUMES INCLUDE 6" OF STRIPPED TOP SOIL)

PIT DATA

DIMENSIONS: 250'x175'
 BERM WIDTH: 8'
 BERM ELEVATION: 1481.37'
 BOTTOM DIMENSIONS: 140'x65'
 BOTTOM ELEVATION: 1464.37'

TOTAL VOLUME: 16,082.63 CU. YD.
 WATER LEVEL ELEVATION: 1477.37'
 WATER VOLUME: 10,328.26 CU. YD.
 (49,667.63 BBL's)
 PIT CUT/FILL SLOPES : 3:1

CURRENT REV.: 0



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

**PROPOSED
 GRADING
 PLAN**

DRAWN BY:	HDG	SCALE:	1" = 100'
CHECKED BY:	MJL	JOB No.:	--
APPROVED BY:	--	DWG. NO.:	PRO-GR.
DATE ISSUED:	10-17-18	SHEET:	4 OF 4