API NUMBER: 051 24393

Oil & Gas

Horizontal Hole

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

Approval Date: 06/21/2018
Expiration Date: 12/21/2018

3186 0

Well will be 350 feet from nearest unit or lease boundary.

OTC/OCC Number:

PERMIT TO DRILL

WELL LOCATION	: Sec:	20	Twp:	7N	Rge:	6W	County	y: GRA	DY			
SPOT LOCATION	: SW	NE	NV	٧	NE		FEET FROM QUARTER:	FROM	NORTH	FROM	EAST	
							SECTION LINES:		350		1687	
Lease Name:	SCHOOF	:					W	ell No:	4-17-8-5>	(HS		
Operator Name:	CONT	'INEN'	TAL RE	SOUR	CES IN	IC			Teleph	none:	4052349020; 40	52349

J W & MARIBETH SMITH, CO-TRUSTEES 2155 COUNTY STREET 2890

CHICKASHA OK 73018

CONTINENTAL RESOURCES INC

PO BOX 269000

OKLAHOMA CITY, OK 73126-9000

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

	Name	Depth	Name	Depth
1	SPRINGER	12391	6	
2			7	
3			8	
4			9	
5			10	
Spacing Orders:	164772	Location Exception Orders:		Increased Density Orders:
. 0	172459	·		,
	578776			
Pending CD Num	bers: 201803473			Special Orders:

201803474 201803466

Total Depth: 25513 Ground Elevation: 1094 **Surface Casing: 1500** Depth to base of Treatable Water-Bearing FM: 550

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: 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 located in a Hydrologically Sensitive Area.

Category of Pit: C

Liner not required for Category: C

Pit Location is BED AQUIFER

Pit Location Formation: DUNCAN

D. One time land application -- (REQUIRES PERMIT) PERMIT NO: 18-34594

H. SEE MEMO

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: DUNCAN

HORIZONTAL HOLE 1

Rge 6W Sec 05 Twp 7N County **GRADY** SE Spot Location of End Point: N2 N2 ΝE Feet From: SOUTH 1/4 Section Line: 2500 Feet From: FAST 1/4 Section Line: 660

Depth of Deviation: 11748 Radius of Turn: 477

Direction: 15

Total Length: 13016

Measured Total Depth: 25513

True Vertical Depth: 12391

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

Notes:

Category Description

COMPLETION INTERVAL 6/21/2018 - G58 - WILL BE LEGAL PER OP.

DEEP SURFACE CASING 6/5/2018 - 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 6/5/2018 - 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 6/5/2018 - G71 - PITS 1 & 2 - CLOSED SYSTEM=STEEL PITS PER OPERATOR REQUEST, PIT 2 -

OBM RETURNED TO VENDOR, CUTTINGS PERMITTED PER DISTRICT

Category Description

PENDING CD - 201803466 6/21/2018 - G58 - 17-7N-6W

X164772 SPRG 3 WELLS NO OP. NAMED

REC 5/21/2018 (NORRIS)

PENDING CD - 201803473 6/21/2018 - G58 - (I.O.) 5, 8, & 17-7N-6W

EST MULTIUNIT HORIZONTAL WELL

X164772 SPRG 17-7N-6W X172459 SPRG 8-7N-6W X578776 SPRG 5-7N-6W

40% 17-7N-6W 40% 8-7N-6W 20% 5-7N-6W NO OP. NAMED

REC 5/21/2018 (NORRIS)

PENDING CD - 201803474 6/21/2018 - G58 - (I.O.) 5, 8, & 17-7N-6W

X164772 SPRG 17-7N-6W X172459 SPRG 8-7N-6W X578776 SPRG 5-7N-6W

X165:10-3-28(C)(2)(B) MAY BE CLOSER THAN 600' TO PROPOSED WELL COMPL. INT. (17-7N-6W) NCT 150' FSL, NCT 0' FNL, NCT 660' FEL COMPL. INT. (8-7N-6W) NCT 0' FSL, NCT 0' FNL, NCT 660' FEL COMPL. INT. (5-7N-6W) NCT 0' FSL, NCT 2640' FNL, NCT 660' FEL

NO OP. NAMÈD

REC 5/21/2018 (NORRIS)

SPACING - 164772 6/21/2018 - G58 - (640) 17-7N-6W

EST OTHERS EXT OTHERS EXT 136547 SPRG

SPACING - 172459 6/21/2018 - G58 - (640) 8-7N-6W

EXT OTHERS

EXT 75509 SPRG, OTHERS

SPACING - 578776 6/21/2018 - G58 - (640) 5-7N-6W

EST OTHERS

EXT 172459 SPRG, OTHERS

EXHIBIT: <u>A (1 of 2)</u>

SHEET: 8.5x11

SHL: $\frac{20-7N-6W}{5-7N-6W}$



051-24393

COVER SHEET

CONTINENTAL RESOURCES, INC.

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

 Section
 20
 Township
 7N
 Range
 6W
 I.M.
 Well:
 SCHOOF
 4-17-8-5XHS

 County
 GRADY
 State
 OK
 Well:
 —

Operator _____CONTINENTAL RESOURCES, INC.

		NAD-	-83					
POINT	WELL NAME	NORTHING	EASTING	LATITUDE LONGITUDE	LATITUDE LONGITUDE		EXISTING ELEVATION	DESIGN ELEVATION
W4	SCHOOF 4-17-8-5XHS	632825	2012665	35° 04' 19.62" -97° 51' 08.65"	35.072117 -97.852404	350' FNL / 1687' FEL (NE/4 SEC 20)	1093.69'	1094.44'
LP-4	LANDING POINT	633226	2013031	35° 04' 23.58" -97° 51' 04.24"	35.073217 -97.851179	50' FSL / 1320' FEL (SE/4 SEC 17)		
BHL-4	BOTTOM HOLE LOCATION	646242	2013627	35° 06' 32.31" -97° 50' 56.84"	35.108976 -97.849122	2500' FSL / 660' FEL (SE/4 SEC 5)		
X-1	BETTY JEAN #1-8-5XH	638721	2011159	35° 05′ 17.95″ -97° 51′ 26.68″	35.088320 -97.857410	8-7N-6W:SW4SE4SE4SW4 TD: 23,525' 265' FSL / 2,110' FWL		
X-2	BALLARD #17-1	637798	2013675	35° 05' 08.79" -97° 50' 56.42"	35.085774 -97.849006	17-7N-6W:NE4 TD: 15,070' 1,980' FSL / 1,980' FWL		
X-3	BALLARD #1-17H	633378	2013611	35° 04' 25.07" -97° 50' 57.27"	35.073631 -97.849242	17-7N-6W:SE4SW4SE4SE4 TD: 18,460' 200' FSL / 740' FEL		
X-4	SCHOOF #1-17H	633424	2014000	35° 04' 25.52" -97° 50' 52.58"	35.073756 -97.847939	17-7N-6W:SW4SE4SE4SE4 TD: 17,265' 245' FSL / 350' FEL		

		NAD-	-27					
POINT	WELL NAME	NORTHING	EASTING	LATITUDE LONGITUDE	LATITUDE LONGITUDE		EXISTING ELEVATION	
W4	SCHOOF 4-17-8-5XHS	632783	2044262	35° 04′ 19.38″ -97° 51′ 07.50″	35.072051 -97.852084	350' FNL / 1687' FEL (NE/4 SEC 20)	1093.69'	
LP-4	LANDING POINT	633184	2044628	35° 04' 23.34" -97° 51' 03.09"	35.073151 -97.850859	50' FSL / 1320' FEL (SE/4 SEC 17)		
BHL-4	BOTTOM HOLE LOCATION	646200	2045224	35° 06' 32.08" -97° 50' 55.68"	35.108911 -97.848801	2500' FSL / 660' FEL (SE/4 SEC 5)		
X-1	BETTY JEAN #1-8-5XH	638679	2042756	35° 05' 17.72" -97° 51' 25.52"	35.088255 -97.857090	8-7N-6W:SW4SE4SE4SW4 TD: 23,525' 265' FSL / 2,110' FWL		
X-2	BALLARD #17-1	637756	2045271	35° 05' 08.55" -97° 50' 55.27"	35.085709 -97.848686	17-7N-6W:NE4 TD: 15,070' 1,980' FSL / 1,980' FWL		
X-3	BALLARD #1-17H	633336	2045207	35° 04' 24.83" -97° 50' 56.12"	35.073565 -97.848922	17-7N-6W:SE4SW4SE4SE4 TD: 18,460' 200' FSL / 740' FEL		
X-4	SCH00F #1-17H	633382	2045597	35° 04' 25.28" -97° 50' 51.43"	35.073690 -97.847619	17-7N-6W:SW4SE4SE4SE4 TD: 17,265' 245' FSL / 350' FEL		

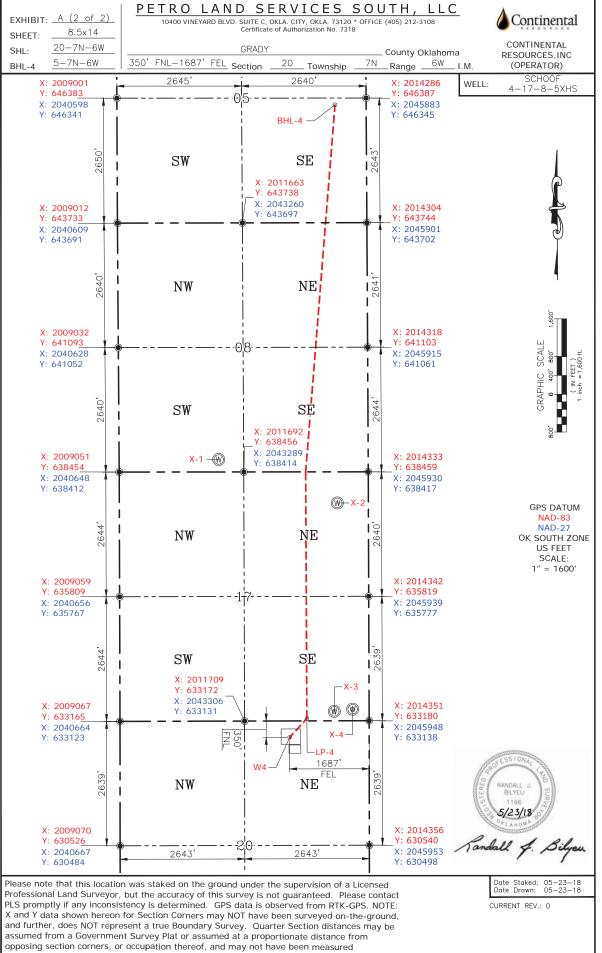
Certificate of Authorization No. 7318

Date Staked: 05-23-18 Date Drawn: 05-23-18



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

R E	REVISIONS									
No.	DATE	BY	DESCRIPTION	COMMENTS						
00	05-23-18	TJW	ISSUED FOR APPROVAL							



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.