API NUMBER: 019 26362

Oil & Gas

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

01/22/2020 Approval Date: 07/22/2021 **Expiration Date**

Increased Density Orders:

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

H. SEE MEMO

707717

PERMIT NO: 19-37179

Horizontal Hole Multi Unit

PERMIT TO DRILL

WELL LOCATION: Sec: 1	2 Twp: 2S Rge: 3	W County: CAR	TER			
SPOT LOCATION: S2	NE SE SE	FEET FROM QUARTER: FROM	SOUTH FROM	EAST		
		SECTION LINES:	780	330		
Lease Name: ESSEX		Well No:	1-12-13-24XHW	W	ell will be 330	feet from nearest unit or lease boundary.
Operator CONTIN Name:	ENTAL RESOURCES INC		Telephone: 4	052349020; 4052349	OTC/0	OCC Number: 3186 0
CONTINENTAL RE PO BOX 269000 OKLAHOMA CITY,		73126-9000		BILLY M. BRA		
5 " () (9	******			RED OAK		TX 75154
Formation(s) (Perm	it Valid for Listed Fo	rmations Only): Depth		Name		Depth
1 WOODFORD	2	10583	6	1		
2		10000	7			
3						
4			Ş			
5			1	0		

Pending CD Numbers: Special Orders:

Location Exception Orders: 707716

Total Depth: 20666 Ground Elevation: 1010 Surface Casing: 1500 Depth to base of Treatable Water-Bearing FM: 1260

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

Chlorides Max: 3000 Average: 2000

Type of Mud System: WATER BASED

Is depth to top of ground water greater than 10ft below base of pit? Y

Within 1 mile of municipal water well? N

696736

707723

707724 707747 707715

Spacing Orders:

Wellhead Protection Area?

is located in a Hydrologically Sensitive Area.

Category of Pit: C

Liner not required for Category: C

Pit Location is ALLUVIAL

Pit Location Formation: ALLUVIUM

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

Womindad Frotodilom Airca.

Pit is located in a Hydrologically Sensitive Area.

Category of Pit: C

Liner not required for Category: C

Pit Location is ALLUVIAL

Pit Location Formation: ALLUVIUM

HORIZONTAL HOLE 1

Sec 24 Twp 2S Rge 3W County CARTER

Spot Location of End Point: S2 SE SE SE Feet From: SOUTH 1/4 Section Line: 50

Feet From: EAST 1/4 Section Line: 330

Depth of Deviation: 9895 Radius of Turn: 409 Direction: 180

Total Length: 10128

Measured Total Depth: 20666

True Vertical Depth: 12487

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

Notes:

Category Description

HYDRAULIC FRACTURING

12/30/2019 - 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

INCREASED DENSITY - 707717 (201905763)

1/13/2020 - GB6 - (E.O.) 12-2S-3W

X696736 WDFD

1 WELL

CONTINENTAL RESOURCES, INC.

01/21/2020**

**RELIEF GRANTED SHALL EXPIRE 04/20/2020.

APPLICANT MAY NOT PRODUCE THE SUBJECT WELL UNTIL THE FINAL DETERMINATION IN

THIS CAUSE.

LOCATION EXCEPTION - 707716 (201905762)

1/13/2020 - GB6 - (E.O.) 12, 13, & 24 -2S-3W X696736 WDFD, OTHER 12-2S-3W X201802041** WDFD, OTHER 13-2S-3W X201902150 WDFD, OTHER 13-2S-3W X201802042** WDFD, OTHER 24-2S-3W X201902151 WDFD, OTHER 24-2S-3W

COMMENCE COMPL. INT. (12-2S-3W) NCT 330' FSL, NCT 330' FEL

END COMPL. INT. (12-2S-3W) NCT 0' FSL, NCT 330' FEL COMPL. INT. (13-2S-3W) NCT 0' FNL, NCT 0' FSL, NCT 330' FEL COMPL. INT. (24-2S-3W) NCT 0' FNL, NCT 150' FSL, NCT 330' FEL

CONTINENTAL RESOURCES, INC.

01/21/2020***

** CONTINENTAL RESOURCES, INC. HAS TAKEN OVER THIS MATTER FROM ECHO OPERATING, LLC AND ECHO E&P, LLC

***RELIEF GRANTED SHALL EXPIRE 04/20/2020. APPLICANT MAY NOT PRODUCE THE SUBJECT WELL UNTIL THE FINAL DETERMINATION IN THIS CAUSE.

MEMO

12/30/2019 - G71 - PITS 1 & 2 - CLOSED SYSTEM=STEEL PITS (REQUIRED - CADDO CREEK RESERVOIR), PIT 2 - OBM RETURNED TO VENDOR, CUTTINGS PERMITTED PER DISTRICT

SPACING - 707715 (201905761)

1/13/2020 - GB6 - (E.O.) 12, 13, & 24 -2S-3W EST MULTIUNIT HORIZONTAL WELL

X696736 WDFD, OTHER

X201802041** WDFD, OTHER 13-2S-3W X201902150 WDFD, OTHER 13-2S-3W X201802042** WDFD, OTHER 24-2S-3W X201902051 WDFD, OTHER 24-2S-3W

8.36% 12-2S-3W 46.48% 13-2S-3W 45.16% 24-2S-3W

CONTINENTAL RESOURCES, INC.

01/21/2020***

** CONTINENTAL RESOURCES, INC. HAS TAKEN OVER THIS MATTER FROM ECHO OPERATING, LLC AND ECHO E&P, LLC

***RELIEF GRANTED SHALL EXPIRE 04/20/2020. APPLICANT MAY NOT PRODUCE THE SUBJECT WELL UNTIL THE FINAL DETERMINATION IN THIS CAUSE.

SPACING - 707723 (201802041)

1/10/2020 - GB6 - (E.O.) (640)(HOR) 13-2S-3W

EST WDFD, OTHERS

COMPL. INT. (WDFD) NCT 165' FSL, NCT 165' FNL, NCT 330' FEL, NCT 330' FWL

CONTINENTAL RESOURCES, INC.**

01/22/2020***

** CONTINENTAL RESOURCES, INC. HAS TAKEN OVER THIS MATTER FROM ECHO OPERATING, LLC AND ECHO E&P, LLC

***RELIEF GRANTED SHALL EXPIRE 04/21/2020. APPLICANT MAY NOT PRODUCE THE SUBJECT WELL UNTIL THE FINAL DETERMINATION IN THIS CAUSE.

SPACING - 707724 (201802042)

1/10/2020 - GB6 - (E.O.) (640)(HOR) 24-2S-3W

EST WDFD, OTHERS

COMPL. INT. (WDFD) NCT 165' FSL, NCT 165' FNL, NCT 330' FEL, NCT 330' FWL

CONTINENTAL RESOURCES, INC.**

01/22/2020***

** CONTINENTAL RESOURCES, INC. HAS TAKEN OVER THIS MATTER FROM ECHO OPERATING, LLC AND ECHO E&P, LLC

***RELIEF GRANTED SHALL EXPIRE 04/21/2020. APPLICANT MAY NOT PRODUCE THE SUBJECT WELL UNTIL THE FINAL DETERMINATION IN THIS CAUSE.

SPACING - 707746 (201902150)

1/10/2020 - GB6 - (E.O.) (640)(HOR) 13-2S-3W

EST WDFD, OTHERS

COMPL. INT. (WDFD) NCT 165' FSL, NCT 165' FNL, NCT 330' FEL, NCT 330' FWL

CONTINENTAL RESOURCES, INC.**

01/22/2020***

** CONTINENTAL RESOURCES, INC. HAS TAKEN OVER A COMPETING SPACING APPLICATION 201802041 FROM ECHO OPERATING, LLC AND ECHO E&P, LLC

***RELIEF GRANTED SHALL EXPIRE 04/21/2020. APPLICANT MAY NOT PRODUCE THE SUBJECT WELL UNTIL THE FINAL DETERMINATION IN THIS CAUSE.

SPACING - 707747 (201902151)

1/10/2020 - GB6 - (E.O.) (640)(HOR) 24-2S-3W

EST WDFD, OTHERS

COMPL. INT. (WDFD) NCT 165' FSL, NCT 165' FNL, NCT 330' FEL, NCT 330' FWL CONTINENTAL RESOURCES, INC.**

01/22/2020***

** CONTINENTAL RESOURCES, INC. HAS TAKEN OVER A COMPETING SPACING APPLICATION

201802042 FROM ECHO OPERATING, LLC AND ECHO E&P, LLC

***RELIEF GRANTED SHALL EXPIRE 04/21/2020. APPLICANT MAY NOT PRODUCE THE

SUBJECT WELL UNTIL THE FINAL DETERMINATION IN THIS CAUSE.

1/10/2020 - GB6 - (640)(HOR) 12-2S-3W SPACING - 696736

VAC 346555 WDFD, OTHER IN NW4 12-2S-3W

EST WDFD, OTHERS

COMPL. INT. (WDFD) NCT 165' FSL, NCT 165' FNL, NCT 330' FEL, NCT 330' FWL

EXHIBIT: A (1 of 10)

SHEET: 8.5x14

SHL: <u>12-2S-3W</u>

BHL-C1 1-2S-3W

BHL-E1 24-2S-3W



API 019-26362

COVER SHEET

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

Section 12 Township 2S Range 3W I.M.

Well: CHELSEA 1-12-1XHW

County <u>CARTER</u> State <u>OK</u> Well: <u>ESSEX 1-12-13-24XHW</u>

Operator CONTINENTAL RESOURCES, INC.

		NAD-	-83					
POINT	WELL NAME	NORTHING	EASTING	LATTTUDE LONGITUDE	LATITUDE		EXISTING ELEVATION	DESIGN ELEVATION
C1	CHELSEA 1-12-1XHW	386010	2131842	34° 23° 34.19° -97° 27° 30.80°	34.392830 -97.458555	750' FSL / 330' FEL (SE/4 SEC 12)	1008.07	1009.90'
PI-C1	POINT OF INTERSECT	386011	2131892	34° 23° 34.19° -97° 27° 30.20°	34.392830 -97.458389	750' FSL / 280' FEL (SE/4 SEC 12)		
LP-C1	LANDING POINT	388320	2131840	34° 23° 37.25° -97° 27° 30.80°	34.393882 -97.458554	1080' FSL / 330' FEL (SE/4 SEC 12)		
BHL-C1	BOTTOM HOLE LOCATION	395780	2131801	34' 25' 10.84" -97' 27' 30.66"	34.419677 -97.458516	50' FNL / 330' FEL (NE/4 SEC 1)		
E1	ESSEX 1-12-13-24XHW	386040	2131842	34' 23' 34.48" -97' 27' 30.79"	34.392912 -97.458554	780' FSL / 330' FEL (SE/4 SEC 12)	1009.07	1009.90'
PI-E1	POINT OF INTERSECT	386040	2131792	34° 23° 34.49° -97° 27° 31.39°	34.392913 -97.458720	780' FSL / 380' FEL (SE/4 SEC 12)		
LP-E1	LANDING POINT	385730	2131843	34' 23' 31.42" -97' 27' 30.80"	34.392060 -97.458555	470' FSL / 330' FEL (SE/4 SEC 12)		
BHL-E1	BOTTOM HOLE LOCATION	374756	2131888	34" 21" 42.86" -97" 27" 30.99"	34.381905 -97.458609	50' FSL / 330' FEL (SE/4 SEC 24)		
X-1	BARNWELL #1	393499	2129162	34' 24' 48.41" -97' 28' 02.31"	34.413448 -97.467307	1-2S-3W: TD: 8,357' 2,315' FNL / 2,310' FWL		
X-2	HIGGINS # 1	395500	2131802	34' 25' 08.07" -97' 27' 30.66"	34.418908 -97.458517	1-2S-3W: TD: 3,562' ±330' FNL / ±330' FEL		
X-3	HIGGINS #1	394828	2129820	34' 25' 01.52" -97' 27' 54.37"	34.417089 -97.465103	1-2S-3W: TD: 3,295' ±990' FNL / ±2,316' FEL		
X-4	LUKE #1	392831	2127846	34' 24' 41.87" -97' 28' 18.05"	34.411831 -97.471681	1-2S-3W: TD: 5,233' 2,310' FSL / 990' FWL		
X-5	SHEILA #1-1	393511	2130488	34' 24' 48.46" -97' 27' 46.50"	34.413460 -97.462916	1-2S-3W: TD: 4,375' 2,311' FNL / 1,655' FEL		
X-8	KENNEDY #1	392179	2129171	34' 24' 35.35" -97' 28' 02.28"	34.409820 -97.467299	1-2S-3W: TD: 4,368' 1,650' FSL / 2,310' FWL		
X-7	KENNEDY-NEEDHAM #1	394159	2129158	34° 24° 54.94° -97° 28° 02.31°	34.415261 -97.467308	1-2S-3W: TD: 4,600' 1,655' FNL / 2,310' FWL		
x-8	HIGGINS #1	392184	2129833	34° 24° 35.37" -97° 27° 54.38"	34.409824 -97.465105	1-2S-3W: TD: 8,306' 1,650' FSL / 2,314' FEL		
X-9	WILLIAMS ∦ 1	394177	2131143	34° 24° 55.01″ -97° 27° 38.62″	34.415280 -97.460727	1-2S-3W: TD: 3,034' 1,649' FNL / 996' FEL		
X-10	SWDU #2-1 (HIGGINS #4)	392195	2131153	34° 24° 35.41° -97° 27° 38.62°	34.409835 -97.460729	1-2S-3W: TD: 4,599' 1,650' FSL / 994' FEL		
X-11	HIGGINS #2	391530	2130500	34' 24' 28,88" -97' 27' 46,48"	34.408018 -97.482907	1-2S-3W: TD: 4,653' 990' FSL / 1,650' FEL		
X-12	FANNIE HALL #1	395472	2127171	34° 25° 08.02° -97° 28° 25.95°	34.418896 -97.473875	1-2S-3W: TD: 4,109' 330' FNL / 330' FWL		
X-13	SWDU #4-4 (HIGGINS #3)	390875	2131160	34 24 22.35 -97 27 38.63	34.406208 -97.460730	1-2S-3W: TD: 4,550' 330' FSL / 993' FEL		
X-14	HIGGINS "B" #1	394837	2131140	34° 25° 01.54° -97° 27° 38.61°	34.417094 -97.480726	1-2S-3W: TD: 7,838' 989' FNL / 996' FEL		
X-15	HIGGINS "F" #1	392861	2131806	34' 24' 41.95" -97' 27' 30.78"	34.411654 -97.458551	1-2S-3W: TD: 3,621' 2,310' FSL / 338' FEL		
X-16	HIGGINS "A" #1	393523	2131806	34° 24' 48.50" -97' 27' 30.74"	34.413473 -97.458539	1-2S-3W: TD: 4,326' 2,308' FNL / 335' FEL		<u></u> _
X-17	HOWELL #1	385585	2129858	34' 23' 30.08" -97' 27' 54.50"	34.391690 -97.465138	12-25-3W: TD: 7,220' 330' FSL / 2,316' FEL		
X-18	PIERCE #2	388900	2131829	34' 24' 02.77" -97' 27' 30.77"	34.400769 -97.458546	12-25-3W: TD: UNKNOWN' 1,651' FNL / 330' FEL		
X-19	PIERCE #BA	387580	2131834	34' 23' 49.71" -97' 27' 30.79"	34.397142 -97.458553	12-2S-3W: TD: 273' 2,319' FSL / 330' FEL		
X-20	HOWELL #3	388412	2130680	34' 23' 38.22" -97' 27' 44.63"	34.393951 -97.462398	12-25-3W: TD: 2,850' ±1,155' FSL / ±1,490' FEL		
X-21	HOWELL #2	387569	2131171	34' 23' 49.64" -97' 27' 38.70"	34.397122 -97.460750	12-25-3W: TD: 5,289' 2,310' FSL / 993' FEL		
X-22	KENNEDY #1	388539	2127543	34° 23° 59.43° -97° 28° 21.93°	34.399840 -97.472760	12-25-3W: TD: 9,214' 1,981' FNL / 880' FWL		
X-23	PIERCE ESTATE #1	385916	2130187	34° 23° 33.34° -97° 27° 50.55°	34.392594 -97.484042	12-2S-3W: TD: 10,040' 660' FSL / 1,985' FEL		
X-24	AMERADA HESS #1	385899	2127728	34° 23° 33.30° -97° 28° 19.92°	34.392583 -97.472200	12-25-3W: TD: 9,520' 660' FSL / 830' FWL		
X-25	QUINTON #1	387228	2128870	34' 23' 48.39" -97' 28' 06.19"	34.398220 -97.468386	12-25-3W: TD: 9,372' 1,980' FSL / 1,980' FWL		

Certificate of Authorization No. 7318



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

	REVISIONS										
	No. DATE STAKED BY DESCRIPTION					COMMENTS					
	00	12-17-19	**_**_**	HDG	ISSUED FOR APPROVAL						
h	01	121819	**-**-19	HDG	SWAPPED SHL'S & ADDED PI'S	REV'D EXHIBIT A(1-10), B, F & "A"					
,											
,											

EXHIBIT: A (5 of 10) SHEET: 8.5x14

SHL: 12-2S-3W BHL-C1 1-2S-3W BHL-E1 24-2S-3W



COVER SHEET CONTINUED...

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

Well: ___CHELSEA 1-12-1XHW Section 12 Township 2S Range 3W I.M.

Operator CONTINENTAL RESOURCES, INC.

		NAD-	-27					
POINT	WELL NAME	NORTHING	EASTING	LATITUDE LONGITUDE	LATITUDE LONGITUDE		EXISTING ELEVATION	DESIGN ELEVATION
C1	CHELSEA 1-12-1XHW	385968	2163437	34' 23' 33.87" -97' 27' 29.71"	34.392742 -97.458252	750' FSL / 330' FEL (SE/4 SEC 12)	1009.07	1009.90
PI-C1	POINT OF INTERSECT	385968	2163487	34° 23′ 33.87″ -97° 27′ 29.11″	34.392743 -97.458087	750' FSL / 280' FEL (SE/4 SEC 12)		
LP-C1	LANDING POINT	386278	2163435	34' 23' 36.94" -97' 27' 29.71"	34.393594 -97.458252	1060' FSL / 330' FEL (SE/4 SEC 12)		
BHL-C1	BOTTOM HOLE LOCATION	395738	2163396	34° 25′ 10.53″ -97° 27′ 29.57″	34.419590 -97.458214	50' FNL / 330' FEL (NE/4 SEC 1)		
E1	ESSEX 1-12-13-24XHW	385998	2163437	34° 23' 34.17" -97' 27' 29.71"	34.392825 -97.458252	780' FSL / 330' FEL (SE/4 SEC 12)	1008.07'	1009.90
PI-E1	POINT OF INTERSECT	385998	2163387	34° 23′ 34.17° -97′ 27′ 30.30°	34.392828 -97.458418	780' FSL / 380' FEL (SE/4 SEC 12)		
LP-E1	LANDING POINT	385688	2163438	34' 23' 31.10" -97' 27' 29.71"	34.391973 -97.458253	470' FSL / 330' FEL (SE/4 SEC 12)		
BHL-E1	BOTTOM HOLE LOCATION	374714	2163481	34 21 42.54 -97 27 29.91	34.351816 -97.458307	50' FSL / 330' FEL (SE/4 SEC 24)		-
X-1	BARNWELL #1	393457	2160757	34' 24' 48.10" -97' 28' 01.22"	34.413361 -97.467004	1-2S-3W: TD: 8,357' 2,315' FNL / 2,310' FWL		
X-2	HIGGINS #1	395458	2163398	34' 25' 07.76" -97' 27' 29.57"	34.418821 -97.458214	1-2S-3W: TD: 3,562' ±330' FNL / ±330' FEL		-
X-3	HIGGINS #1	394786	2161415	34 25 01.21 -97 27 53.28	34.417003 -97.464800	1-2S-3W: TD: 3,295' ±990' FNL / ±2,316' FEL		1
X-4	LUKE #1	392789	2159441	34' 24' 41.56" -97' 28' 16.96"	34.411544 -97.471378	1-2S-3W: TD: 5,233' 2,310' FSL / 990' FWL		1
X-5	SHEILA #1-1	393468	2162081	34' 24' 48.15" -97' 27' 45.41"	34.413374 -97.482613	1-2S-3W: TD: 4,375' 2,311' FNL / 1,655' FEL		I
X-6	KENNEDY #1	392137	2160766	34' 24' 35.04" -97' 28' 01.19"	34.409734 -97.466997	1-2S-3W: TD: 4,368' 1,650' FSL / 2,310' FWL		
X-7	KENNEDY-NEEDHAM #1	394117	2160753	34' 24' 54.63" -97' 28' 01.22"	34.415175 -97.467005	1-2S-3W: TD: 4,600' 1,655' FNL / 2,310' FWL		
X-8	HIGGINS #1	392142	2161428	34° 24′ 35.05″ -97° 27′ 53.29″	34.409737 -97.484803	1-2S-3W: TD: 8,306' 1,650' FSL / 2,314' FEL		
X-9	WILLIAMS #1	394134	2162738	34' 24' 54.70" -97' 27' 37.53"	34.415194 -97.460424	1-2S-3W: TD: 3,034' 1,649' FNL / 996' FEL		
X-10	SWDU #2-1 (HIGGINS #4)	392153	2162748	34' 24' 35.09" -97' 27' 37.54"	34.409748 -97.460426	1-2S-3W: TD: 4,599' 1,650' FSL / 994' FEL		
X-11	HIGGINS #2	391487	2162095	34° 24° 28.54° -97° 27' 45.37°	34.407929 97.462604	1-2S-3W: TD: 4,653' 990' FSL / 1,650' FEL		
X-12	FANNIE HALL #1	395429	2158766	34' 25' 07.71" -97' 28' 24.86"	34.418809 -97.473572	1-2S-3W: TD: 4,109' 330' FNL / 330' FWL		
X-13	SWDU #4-4 (HIGGINS #3)	390833	2162755	34' 24' 22.04" -97' 27' 37.54"	34.406121 -97.460428	1-2S-3W: TD: 4,550' 330' FSL / 993' FEL		
X-14	HIGGINS "B" #1	394794	2162735	34° 25° 01.23" -97° 27° 37.52"	34.417007 97.460423	1-2S-3W: TD: 7,838' 989' FNL / 996' FEL		
X-15	HIGGINS "F" #1	392818	2163401	34° 24° 41.64° -97° 27° 29.70°	34.411567 -97.458249	1-2S-3W: TD: 3,621' 2,310' FSL / 338' FEL		
X-16	HIGGINS "A" #1	393480	2163401	34' 24' 48.19" -97' 27' 29.65"	34.413386 -97.458237	1-2S-3W: TD: 4,326' 2,308' FNL / 335' FEL		-
X-17	HOWELL #1	385542	2161453	34' 23' 29.77" -97' 27' 53.41"	34.391602 97.464835	12-2S-3W: TD: 7,220' 330' FSL / 2,316' FEL		
X-18	PIERCE #2	388857	2163424	34' 24' 02.46" -97' 27' 29.68"	34.400682 -97.458244	12-2S-3W: TD: UNKNOWN' 1,651' FNL / 330' FEL		
X-19	PIERCE #6A	387537	2183429	34' 23' 49.40" -97' 27' 29.70"	34.397055 -97.458250	12-2S-3W: TD: 273' 2,319' FSL / 330' FEL		
X-20	HOWELL #3	386370	2162275	34' 23' 37.91" -97' 27' 43.54"	34.393864 -97.462096	12-2S-3W: TD: 2,850' ±1,155' FSL / ±1,490' FEL		
X-21	HOWELL #2	387526	2162766	34° 23′ 49.32″ -97° 27′ 37.61″	34.397034 -97.460447	12-2S-3W: TD: 5,289' 2,310' FSL / 993' FEL		
X-22	KENNEDY #1	388496	2159138	34° 23' 59.11" -97° 28' 20.85"	34.399753 -97.472457	12-25-3W: TD: 9,214' 1,981' FNL / 660' FWL		
X-23	PIERCE ESTATE #1	385873	2161782	34' 23' 33,03" -97' 27' 49.46"	34.392507 -97.483740	12-2S-3W: TD: 10,040' 660' FSL / 1,985' FEL		
X-24	AMERADA HESS #1	385856	2159321	34' 23' 32.98" -97' 28' 18.83"	34.392495 -97.471897	12-2S-3W: TD: 9,520' 660' FSL / 830' FWL		
X-25	QUINTON #1	387186	2160465	34' 23' 46.08" -97' 28' 05.10"	34,396133 -97,468083	12-2S-3W: TD: 9,372' 1,980' FSL / 1,980' FWL		
X-26	SWDU #9-1 (IMOTICHEY #2-12)	390172	2162757	34' 24' 15.50" -97' 27' 37.55"	34.404308 -97.460430	12-2S-3W: TD: 4,420' 330' FNL / 992' FEL		

Certificate of Authorization No. 7318



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

PETRO LAND SERVICES SOUTH, LLC EXHIBIT: A (10 of 10) 10400 VINEYARD BLVD. SUITE C, OKLA. CITY, OKLA. 73120 * OFFICE (405) 212-3108 Certificate of Authorization No. 7318 Continental 8.5x14 SHEET: CONTINENTAL 12-2S-3W CARTER SHL: _ County Oklahoma RESOURCES,INC (OPERATOR) 780' FSL-330' FEL Section 24-2S-3W 12___ Township <u>2S</u> Range <u>3W</u> I.M. BHL-E1 ESSEX 1-12-13-24XHW x: 2129529 12 **₩**−X-24 Y: 385254 X: 2161124 SE SW (₩)—X-17 ^{-E1} X: 2132176 Y: 385211 X: 2126899 Y: 385261 Y: 385231 2646 X: 2163771 X: 2158494 2630 Y: 385219 Y: 385189 -X-36 ₩- X-35 **®**^ . X-34 X-33 2640, NW NE X: 2126898 X: 2132176 Y: 382591 Y: 382629 X: 2163771 X: 2158493 Y: 382586 Y: 382549 SCAL 2640, SW SE X: 2129543 Y: 379970 X: 2161138 X-32 — **₩**-X-37 X: 2126897 Y: 379951 Y: 379928 X: 2132179 Y: 379995 X: 2163774 Y: 379952 X: 2158492 Y: 379909 ₩-X-76 GPS DATUM NAD-83 ₩-X-66 NAD-27 2643, OK SOUTH ZONE NE NW US FEET SCALE: X-68-₩ 1" = 1250 ^-42 X-55 W-X-62 X: 2132196 X: 2126924 X-90-**®** -X-99 Y: 377308 Y: 377352 X: 2163791 X: 2158519 X-84 X-81 X-81 X+9-X+9-X+0 X-00 X-83 X-44 X-70 X Y: 377309 Y: 377266 X-49 X-70 X-98 X-70 X-98 X-87 X-74 X-74 X-92 X-88 X-88 X-47 X-74 X-74 X-94 X-93 W-x-91 2643, SEX-45 _ ^ X SW ₩-X-80 X-50 X-50 ₩ x-58 ₩ x-57 -X-95 X-79-₩-X-69 W-β3 -X-46 X-39 -X-61 ₩_{X-65} ₩^{x-77}7 x**∤**96 ∰ X: 2132216 X: 2126952 **(** Y: 374709 Y: 374665 X: 2129584 X: 2163811 ⊏x-56 X: 2158548 Y: 374687 Y: 374666 2632 2632 Y: 374622 X: 2161179 CURRENT REV.: 1 BHL-E1 Date Drawn: 12-18-19

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.



Oklahoma PLS No.1196