



Continental Resources - WT

Ward County, TX

Sec. 6, Block 18, University Land Survey

UTL 0708E #0605H

Wellbore #1

Design: Wellbore #1

KLX Survey Certification Report

20 June, 2023



KLX Directional Drilling, INC.

11390 FM 830

Willis, TX 77318

Phone: (936) 856-4332

Fax: (936) 856-8678



6/20/2023

Railroad Commission of Texas
Oil and Gas Division
1701 North Congress Avenue
Austin, Texas 78711

Attention: Pam Johns

Re: Continental Resources, Inc.
UTL 0708E 0605H
RRC Lease/ID No.
UL
Abstract No.
Ward County, Texas
API No. 42-475-38543

Enclosed, please find the original and one (1) copy of the survey performed on the referenced well by KLX Directional Drilling, Inc. (P5#100184). Other information required by your office is as follows:

Name of Surveyor	Drainhole Number	Surveyed Depths	Dates Performed	Type of Survey
Beau Shelton	Original Hole	1034' – 21904'	5/30/2023-6/19/2023	MWD

A certified plat on which the bottom hole location is oriented both to the surface location and to the lease lines (or unit lines in case of pooling) is attached to the survey report. If any other information is required, please contact the undersigned at the letterhead address and phone number.

Sincerely,

Kristopher Ray
Regulatory Compliance Manager
KLX Directional Drilling, Inc.

Enclosures

Cc: Continental Resources, Inc.

Company:	Continental Resources - WT	Local Co-ordinate Reference:	Well UTL 0708E #0605H
Project:	Ward County, TX	TVD Reference:	KB=24' @ 2789.0usft (Scan Vision)
Site:	Sec. 6, Block 18, University Land Survey	MD Reference:	KB=24' @ 2789.0usft (Scan Vision)
Well:	UTL 0708E #0605H	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	EDM 5000.1 Single User Db

Project	Ward County, TX		
Map System:	US State Plane 1927 (Exact solution)	System Datum:	Mean Sea Level
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	Texas Central 4203		

Site		Sec. 6, Block 18, University Land Survey			
Site Position:		Northing:	722,638.80 usft	Latitude:	31° 37' 15.717 N
From:	Map	Easting:	1,094,212.20 usft	Longitude:	103° 14' 37.020 W
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16"	Grid Convergence:	-1.50 °

Well		UTL 0708E #0605H				
Well Position	+N/-S	0.0 usft	Northing:	722,638.80 usft	Latitude:	31° 37' 15.717 N
	+E/-W	0.0 usft	Easting:	1,094,212.20 usft	Longitude:	103° 14' 37.020 W
Position Uncertainty		0.0 usft	Wellhead Elevation:	usft	Ground Level:	2,765.0 usft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	HDGM2023	5/26/2023	6.68	59.35	46,973.40000000

Design	Wellbore #1				
Audit Notes:					
Version:	1.0	Phase:	ACTUAL	Tie On Depth:	0.0
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)	
	0.0	0.0	0.0	343.74	

Survey Program	Date	6/19/2023			
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
160.0	1,034.0	SFC Surveys (Wellbore #1)	OWSG (REV5) MWD HDGM	OWSG MWD - Standard	
1,125.0	21,904.0	KLX MWD Surveys (Wellbore #1)	OWSG (REV5) MWD HDGM	OWSG MWD - Standard	

Survey								
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	Closure Distance (usft)	Closure Azimuth (°)	
1,034.0	1.10	166.70	1,034.0	4.5	3.4	5.6	37.25	
Tie In @ 1034.0'MD / 1034.0'TVD								
1,125.0	1.71	186.86	1,124.9	2.3	3.4	4.1	56.59	
1,216.0	2.90	215.60	1,215.9	-1.0	1.9	2.2	116.38	
1,307.0	4.70	243.46	1,306.7	-4.5	-2.7	5.3	211.43	
1,400.0	5.14	252.87	1,399.3	-7.4	-10.1	12.6	233.78	
1,492.0	5.05	260.51	1,491.0	-9.3	-18.1	20.3	242.75	
1,583.0	4.18	265.17	1,581.7	-10.2	-25.3	27.3	247.97	
1,675.0	3.74	262.01	1,673.5	-10.9	-31.6	33.5	250.92	
1,766.0	4.00	261.57	1,764.2	-11.8	-37.7	39.5	252.60	
1,858.0	4.13	262.54	1,856.0	-12.7	-44.2	46.0	253.93	

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Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	EDM 5000.1 Single User Db

Survey								
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	Closure Distance (usft)	Closure Azimuth (°)	
1,949.0	3.91	263.50	1,946.8	-13.5	-50.5	52.3	255.04	
2,044.0	3.74	267.11	2,041.6	-14.0	-56.8	58.5	256.14	
2,138.0	3.38	269.92	2,135.4	-14.2	-62.7	64.2	257.25	
2,233.0	2.81	274.84	2,230.3	-14.0	-67.8	69.2	258.34	
2,328.0	3.34	244.69	2,325.1	-15.0	-72.6	74.1	258.34	
2,422.0	3.60	239.16	2,419.0	-17.7	-77.6	79.6	257.18	
2,517.0	2.95	237.93	2,513.8	-20.5	-82.2	84.8	256.01	
2,611.0	2.51	238.45	2,607.7	-22.8	-86.0	89.0	255.13	
2,706.0	2.20	245.48	2,702.6	-24.7	-89.5	92.8	254.57	
2,800.0	4.22	235.99	2,796.5	-27.4	-94.0	97.9	253.76	
2,895.0	4.48	235.03	2,891.2	-31.5	-99.9	104.8	252.52	
2,990.0	4.13	235.38	2,985.9	-35.5	-105.8	111.6	251.43	
3,085.0	3.74	246.54	3,080.7	-38.7	-111.4	118.0	250.85	
3,180.0	3.43	250.14	3,175.5	-40.9	-116.9	123.9	250.72	
3,274.0	3.16	250.85	3,269.4	-42.7	-122.0	129.3	250.71	
3,369.0	2.68	250.85	3,364.2	-44.3	-126.6	134.1	250.72	
3,463.0	5.32	234.76	3,458.0	-47.5	-132.2	140.5	250.23	
3,557.0	6.02	229.58	3,551.5	-53.2	-139.6	149.4	249.12	
3,652.0	4.84	227.73	3,646.1	-59.2	-146.3	157.8	247.98	
3,746.0	3.12	213.58	3,739.9	-64.0	-150.7	163.7	247.00	
3,841.0	2.33	159.70	3,834.8	-67.9	-151.4	166.0	245.84	
3,935.0	5.36	156.19	3,928.6	-73.7	-149.0	166.2	243.67	
4,030.0	6.29	154.43	4,023.1	-82.5	-145.0	166.8	240.35	
4,125.0	4.79	169.90	4,117.6	-91.1	-142.0	168.7	237.32	
4,219.0	3.91	179.74	4,211.4	-98.2	-141.3	172.1	235.21	
4,314.0	3.21	209.45	4,306.2	-103.7	-142.6	176.3	233.97	
4,408.0	3.91	234.94	4,400.0	-107.9	-146.5	181.9	233.64	
4,503.0	2.64	220.17	4,494.9	-111.4	-150.6	187.3	233.51	
4,597.0	4.13	253.75	4,588.7	-114.0	-155.2	192.6	233.71	
4,692.0	5.14	271.85	4,683.4	-114.8	-162.8	199.2	234.80	
4,786.0	4.40	268.07	4,777.1	-114.8	-170.6	205.6	236.06	
4,881.0	3.91	269.13	4,871.8	-115.0	-177.5	211.4	237.06	
4,976.0	4.88	264.73	4,966.5	-115.4	-184.7	217.8	238.01	
5,070.0	6.86	261.30	5,060.0	-116.6	-194.3	226.6	239.03	
5,165.0	6.59	262.10	5,154.4	-118.2	-205.3	236.9	240.06	
5,259.0	6.37	262.89	5,247.8	-119.6	-215.8	246.7	241.00	
5,354.0	6.51	262.45	5,342.2	-121.0	-226.3	256.6	241.88	
5,449.0	6.20	262.36	5,436.6	-122.3	-236.8	266.5	242.67	
5,543.0	6.11	261.13	5,530.1	-123.8	-246.7	276.1	243.36	
5,637.0	6.15	261.74	5,623.5	-125.3	-256.7	285.6	243.98	
5,731.0	6.20	261.13	5,717.0	-126.8	-266.7	295.3	244.57	
5,826.0	5.89	259.11	5,811.4	-128.5	-276.5	304.9	245.07	
5,920.0	5.93	259.90	5,904.9	-130.3	-286.0	314.3	245.51	
6,014.0	5.89	259.28	5,998.4	-132.0	-295.6	323.7	245.93	

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Survey								
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	Closure Distance (usft)	Closure Azimuth (°)	
6,109.0	5.63	258.32	6,093.0	-133.9	-304.9	333.0	246.30	
6,203.0	5.58	258.84	6,186.5	-135.7	-313.9	342.0	246.62	
6,298.0	5.32	258.93	6,281.1	-137.4	-322.8	350.8	246.94	
6,392.0	5.45	258.93	6,374.7	-139.1	-331.4	359.4	247.23	
6,487.0	5.36	258.93	6,469.2	-140.8	-340.2	368.2	247.51	
6,581.0	5.80	254.54	6,562.8	-142.9	-349.1	377.2	247.73	
6,676.0	6.24	249.53	6,657.3	-146.0	-358.6	387.2	247.84	
6,771.0	4.18	248.47	6,751.9	-149.1	-366.6	395.8	247.87	
6,865.0	1.67	185.89	6,845.8	-151.7	-369.9	399.8	247.70	
6,959.0	2.33	148.37	6,939.7	-154.7	-369.1	400.2	247.26	
7,054.0	2.37	157.07	7,034.6	-158.2	-367.3	399.9	246.70	
7,148.0	2.24	159.97	7,128.6	-161.7	-365.9	400.0	246.16	
7,243.0	2.02	169.72	7,223.5	-165.1	-365.0	400.6	245.66	
7,338.0	1.49	182.64	7,318.5	-168.0	-364.7	401.6	245.27	
7,432.0	0.62	342.52	7,412.4	-168.7	-364.9	402.1	245.19	
7,527.0	1.32	348.40	7,507.4	-167.1	-365.3	401.7	245.42	
7,622.0	1.49	324.32	7,602.4	-165.1	-366.3	401.7	245.74	
7,716.0	1.41	330.91	7,696.4	-163.1	-367.5	402.1	246.08	
7,811.0	1.54	316.50	7,791.3	-161.1	-369.0	402.6	246.41	
7,904.0	0.26	78.58	7,884.3	-160.2	-369.6	402.8	246.57	
7,998.0	2.55	114.53	7,978.3	-161.0	-367.5	401.2	246.35	
8,093.0	2.11	118.66	8,073.2	-162.7	-364.1	398.8	245.92	
8,187.0	1.93	121.21	8,167.2	-164.4	-361.2	396.8	245.53	
8,283.0	1.89	118.83	8,263.1	-166.0	-358.4	395.0	245.16	
8,379.0	1.58	128.06	8,359.1	-167.5	-356.0	393.5	244.80	
8,474.0	1.41	131.84	8,454.0	-169.1	-354.1	392.4	244.47	
8,569.0	1.14	155.84	8,549.0	-170.8	-352.8	392.0	244.17	
8,663.0	1.01	181.06	8,643.0	-172.4	-352.5	392.4	243.93	
8,758.0	2.02	198.38	8,738.0	-174.9	-353.0	394.0	243.65	
8,852.0	2.77	209.10	8,831.9	-178.4	-354.6	397.0	243.29	
8,946.0	1.54	239.68	8,925.8	-181.0	-356.8	400.1	243.10	
9,042.0	0.84	341.29	9,041.8	-181.0	-358.5	401.6	243.20	
9,136.0	1.05	326.78	9,135.8	-179.7	-359.2	401.6	243.42	
9,231.0	2.02	299.89	9,230.7	-178.1	-361.1	402.6	243.75	
9,326.0	2.55	287.76	9,325.7	-176.6	-364.5	405.1	244.15	
9,420.0	3.03	273.26	9,419.6	-175.8	-369.0	408.8	244.52	
9,515.0	2.24	271.15	9,514.5	-175.7	-373.4	412.6	244.81	
9,610.0	2.11	358.95	9,608.4	-173.9	-375.2	413.6	245.14	
9,704.0	2.55	342.25	9,703.3	-170.1	-375.9	412.6	245.65	
9,799.0	2.64	315.45	9,798.2	-166.6	-378.1	413.2	246.23	
9,893.0	1.36	3.96	9,892.2	-163.9	-379.5	413.4	246.64	
9,988.0	2.42	52.39	9,987.1	-161.6	-377.9	411.0	246.85	
10,082.0	2.51	56.96	10,081.1	-159.2	-374.6	407.0	246.97	
10,177.0	2.20	85.79	10,176.0	-158.0	-371.0	403.2	246.94	
10,271.0	1.85	108.73	10,269.9	-158.3	-367.8	400.4	246.71	

Company:	Continental Resources - WT	Local Co-ordinate Reference:	Well UTL 0708E #0605H
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Well:	UTL 0708E #0605H	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	EDM 5000.1 Single User Db

Survey							
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	Closure Distance (usft)	Closure Azimuth (°)
10,386.0	0.70	134.13	10,364.9	-159.2	-365.9	399.0	246.49
10,481.0	0.48	250.58	10,459.9	-159.7	-365.9	399.2	246.41
10,575.0	1.10	284.60	10,553.9	-159.6	-367.1	400.3	246.50
10,669.0	0.31	286.79	10,647.9	-159.3	-368.2	401.2	246.60
10,765.0	0.13	265.08	10,743.9	-159.3	-368.6	401.5	246.63
10,860.0	0.88	193.63	10,838.9	-160.0	-368.9	402.1	246.55
10,955.0	0.97	206.11	10,933.9	-161.4	-369.4	403.1	246.39
11,049.0	5.36	342.60	11,027.7	-157.9	-371.1	403.3	246.94
11,143.0	14.77	351.57	11,120.2	-141.9	-374.1	400.1	249.23
11,237.0	25.27	354.38	11,208.4	-110.0	-377.9	393.5	253.78
11,332.0	36.48	353.50	11,289.8	-61.6	-383.1	388.0	260.87
11,427.0	48.44	350.87	11,359.8	1.8	-391.9	391.9	270.27
11,521.0	62.77	351.48	11,412.7	78.3	-403.8	411.3	280.97
11,615.0	73.71	347.17	11,447.5	163.9	-420.0	450.9	291.31
11,680.0	85.14	344.54	11,459.4	225.7	-435.6	490.7	297.39
11,779.0	94.15	342.87	11,460.1	320.7	-463.4	563.5	304.68
11,872.0	90.02	343.57	11,456.7	409.6	-490.2	638.8	309.88
11,965.0	89.80	343.75	11,456.8	498.9	-516.4	718.0	314.01
12,058.0	90.20	344.36	11,456.8	588.3	-541.9	799.9	317.35
12,151.0	89.49	343.04	11,457.1	677.5	-568.0	884.1	320.02
12,244.0	91.12	342.43	11,456.6	766.3	-595.6	970.6	322.14
12,337.0	89.93	342.08	11,455.7	854.9	-624.0	1,058.4	323.88
12,430.0	92.53	342.52	11,453.7	943.5	-652.2	1,147.0	325.34
12,523.0	93.01	342.34	11,449.2	1,032.0	-680.3	1,236.1	326.61
12,616.0	90.68	342.78	11,446.2	1,120.7	-708.1	1,325.7	327.71
12,709.0	91.08	341.90	11,444.8	1,209.3	-736.4	1,415.9	328.66
12,802.0	90.51	341.11	11,443.5	1,297.5	-765.8	1,506.7	329.45
12,895.0	92.53	342.69	11,441.0	1,385.9	-794.7	1,597.6	330.17
12,987.0	92.84	342.87	11,436.7	1,473.6	-821.9	1,687.4	330.85
13,083.0	92.92	342.78	11,431.9	1,565.2	-850.2	1,781.3	331.49
13,178.0	90.90	340.05	11,428.7	1,655.2	-880.5	1,874.9	331.99
13,273.0	90.46	339.35	11,427.6	1,744.3	-913.5	1,969.0	332.36
13,368.0	89.89	341.81	11,427.3	1,833.9	-945.0	2,063.1	332.74
13,463.0	89.71	342.08	11,427.7	1,924.2	-974.5	2,156.9	333.14
13,559.0	90.07	342.08	11,427.8	2,015.6	-1,004.0	2,251.8	333.52
13,654.0	91.56	342.96	11,426.5	2,106.2	-1,032.6	2,345.7	333.88
13,749.0	90.11	340.67	11,425.1	2,196.4	-1,062.2	2,439.8	334.19
13,844.0	91.08	341.90	11,424.1	2,286.4	-1,092.7	2,534.1	334.46
13,939.0	89.14	343.92	11,423.9	2,377.2	-1,120.6	2,628.1	334.76
14,035.0	87.65	344.54	11,426.6	2,469.5	-1,146.7	2,722.8	335.09
14,130.0	87.91	345.33	11,430.3	2,561.2	-1,171.3	2,816.3	335.42
14,225.0	89.58	348.40	11,432.4	2,653.7	-1,192.9	2,909.5	335.79
14,320.0	89.19	347.35	11,433.4	2,746.5	-1,212.9	3,002.4	336.17
14,416.0	86.77	345.50	11,436.8	2,839.8	-1,235.4	3,096.9	336.49

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Design:	Wellbore #1	Database:	EDM 5000.1 Single User Db

Survey								
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	Closure Distance (usft)	Closure Azimuth (°)	
14,511.0	88.35	346.21	11,440.8	2,931.8	-1,258.6	3,190.6	336.77	
14,606.0	87.34	346.82	11,444.4	3,024.1	-1,280.7	3,284.2	337.05	
14,701.0	92.53	347.61	11,444.5	3,116.7	-1,301.7	3,377.7	337.33	
14,797.0	95.16	348.49	11,438.1	3,210.4	-1,321.6	3,471.8	337.63	
14,892.0	96.35	349.11	11,428.6	3,303.2	-1,339.9	3,564.6	337.92	
14,987.0	94.07	345.77	11,419.9	3,395.5	-1,360.5	3,657.9	338.16	
15,082.0	90.33	343.13	11,416.3	3,486.9	-1,386.0	3,752.3	338.32	
15,178.0	86.59	339.70	11,418.9	3,577.8	-1,416.5	3,848.1	338.40	
15,273.0	86.24	340.14	11,424.8	3,666.9	-1,449.1	3,942.8	338.44	
15,368.0	84.75	338.47	11,432.3	3,755.5	-1,482.5	4,037.5	338.46	
15,463.0	86.02	341.20	11,439.9	3,844.4	-1,515.2	4,132.2	338.49	
15,558.0	85.49	341.20	11,446.9	3,934.1	-1,545.7	4,226.8	338.55	
15,654.0	86.99	341.46	11,453.2	4,024.8	-1,576.4	4,322.5	338.61	
15,749.0	86.59	341.37	11,458.6	4,114.7	-1,606.6	4,417.2	338.67	
15,844.0	90.46	342.08	11,461.0	4,204.9	-1,636.4	4,512.1	338.74	
15,940.0	90.77	342.60	11,460.0	4,296.3	-1,665.5	4,607.9	338.81	
16,035.0	91.34	344.45	11,458.2	4,387.4	-1,692.4	4,702.5	338.91	
16,130.0	91.69	345.33	11,455.7	4,479.1	-1,717.2	4,797.0	339.02	
16,225.0	91.56	345.68	11,453.0	4,571.0	-1,741.0	4,891.4	339.15	
16,321.0	92.26	346.21	11,449.8	4,664.1	-1,764.3	4,986.6	339.28	
16,416.0	92.70	345.06	11,445.7	4,756.1	-1,787.8	5,081.0	339.40	
16,511.0	90.95	344.63	11,442.7	4,847.7	-1,812.6	5,175.5	339.50	
16,607.0	86.20	343.66	11,445.1	4,940.0	-1,838.8	5,271.1	339.58	
16,702.0	85.41	343.75	11,452.0	5,030.9	-1,865.4	5,365.6	339.66	
16,797.0	83.60	343.13	11,461.1	5,121.6	-1,892.4	5,460.0	339.72	
16,892.0	84.70	343.13	11,470.8	5,212.0	-1,919.8	5,554.3	339.78	
16,988.0	83.82	343.04	11,480.4	5,303.4	-1,947.6	5,649.7	339.83	
17,083.0	87.43	341.20	11,487.6	5,393.5	-1,976.7	5,744.3	339.87	
17,178.0	88.53	342.69	11,491.0	5,483.8	-2,006.1	5,839.2	339.91	
17,274.0	88.84	340.67	11,493.2	5,574.9	-2,036.3	5,935.1	339.93	
17,369.0	89.63	342.78	11,494.5	5,665.1	-2,066.0	6,030.1	339.96	
17,464.0	89.67	340.32	11,495.0	5,755.2	-2,096.1	6,125.0	339.99	
17,559.0	90.77	340.32	11,494.7	5,844.6	-2,128.1	6,220.0	339.99	
17,655.0	85.85	337.95	11,497.5	5,934.3	-2,162.3	6,315.9	339.98	
17,750.0	87.60	339.18	11,502.9	6,022.6	-2,196.9	6,410.7	339.96	
17,845.0	87.56	339.79	11,506.9	6,111.4	-2,230.2	6,505.7	339.95	
17,940.0	88.79	340.23	11,510.0	6,200.7	-2,262.6	6,600.6	339.95	
18,035.0	91.47	345.68	11,509.8	6,291.5	-2,290.5	6,695.4	340.00	
18,131.0	91.69	344.80	11,507.1	6,384.3	-2,314.9	6,791.0	340.07	
18,226.0	92.79	345.50	11,503.4	6,476.0	-2,339.3	6,885.6	340.14	
18,321.0	93.01	345.59	11,498.6	6,567.9	-2,362.9	6,980.0	340.21	
18,416.0	92.66	344.98	11,493.9	6,659.7	-2,387.0	7,074.5	340.28	
18,511.0	92.62	345.24	11,489.5	6,751.4	-2,411.4	7,169.1	340.34	
18,606.0	93.89	346.38	11,484.1	6,843.3	-2,434.7	7,263.5	340.42	

Company:	Continental Resources - WT	Local Co-ordinate Reference:	Well UTL 0708E #0605H
Project:	Ward County, TX	TVD Reference:	KB=24' @ 2789.0usft (Scan Vision)
Site:	Sec. 6, Block 18, University Land Survey	MD Reference:	KB=24' @ 2789.0usft (Scan Vision)
Well:	UTL 0708E #0605H	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	EDM 5000.1 Single User Db

Survey								
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	Closure Distance (usft)	Closure Azimuth (°)	
18,690.0	91.78	346.91	11,480.0	6,924.9	-2,454.1	7,346.9	340.49	
18,786.0	91.25	347.88	11,477.4	7,018.6	-2,475.0	7,442.2	340.58	
18,881.0	88.09	348.93	11,478.0	7,111.6	-2,494.1	7,536.3	340.67	
18,976.0	88.04	349.99	11,481.2	7,205.0	-2,511.5	7,630.1	340.78	
19,072.0	86.42	348.40	11,485.8	7,299.2	-2,529.4	7,725.0	340.89	
19,167.0	86.07	349.46	11,492.0	7,392.2	-2,547.6	7,818.9	340.98	
19,262.0	85.10	349.28	11,499.4	7,485.3	-2,565.1	7,912.6	341.08	
19,358.0	85.23	344.98	11,507.5	7,578.5	-2,586.4	8,007.7	341.16	
19,453.0	86.33	343.66	11,514.4	7,669.7	-2,612.0	8,102.3	341.19	
19,548.0	85.76	344.01	11,521.0	7,760.8	-2,638.4	8,197.0	341.22	
19,644.0	84.75	342.34	11,528.9	7,852.3	-2,666.1	8,292.6	341.25	
19,739.0	86.95	342.52	11,535.8	7,942.7	-2,694.7	8,387.3	341.26	
19,835.0	87.30	342.60	11,540.6	8,034.1	-2,723.4	8,483.2	341.27	
19,930.0	88.92	340.76	11,543.8	8,124.3	-2,753.3	8,578.1	341.28	
20,025.0	88.79	339.09	11,545.7	8,213.5	-2,785.9	8,673.1	341.26	
20,120.0	87.03	338.56	11,549.1	8,302.0	-2,820.2	8,767.9	341.24	
20,216.0	89.63	339.26	11,551.9	8,391.5	-2,854.7	8,863.8	341.21	
20,311.0	91.43	341.37	11,551.0	8,480.9	-2,886.7	8,958.8	341.20	
20,406.0	90.81	341.29	11,549.2	8,570.9	-2,917.1	9,053.7	341.20	
20,501.0	92.18	342.34	11,546.7	8,661.2	-2,946.7	9,148.7	341.21	
20,597.0	94.20	342.69	11,541.4	8,752.6	-2,975.5	9,244.5	341.22	
20,692.0	94.99	342.52	11,533.8	8,842.9	-3,003.8	9,339.2	341.24	
20,787.0	95.60	343.04	11,525.0	8,933.3	-3,031.8	9,433.7	341.25	
20,882.0	93.71	343.39	11,517.3	9,023.9	-3,059.2	9,528.4	341.27	
20,977.0	90.42	344.45	11,513.9	9,115.1	-3,085.5	9,623.2	341.30	
21,072.0	90.42	346.12	11,513.2	9,207.0	-3,109.6	9,718.0	341.34	
21,168.0	87.03	344.10	11,515.3	9,299.8	-3,134.2	9,813.7	341.37	
21,263.0	90.37	346.82	11,517.5	9,391.7	-3,158.1	9,908.4	341.41	
21,358.0	86.37	346.65	11,520.2	9,484.1	-3,179.9	10,003.0	341.46	
21,454.0	84.09	345.33	11,528.1	9,576.9	-3,203.0	10,098.3	341.51	
21,549.0	81.93	345.06	11,539.7	9,668.1	-3,227.1	10,192.4	341.54	
21,644.0	79.56	343.57	11,555.0	9,758.3	-3,252.5	10,286.1	341.57	
21,740.0	78.07	343.04	11,573.6	9,848.5	-3,279.5	10,380.2	341.58	
21,847.0	76.13	342.60	11,597.5	9,948.2	-3,310.3	10,484.5	341.59	
21,904.0	76.13	342.60	11,611.1	10,001.0	-3,326.9	10,539.8	341.60	
TD @ 21904.0'MD/11611.1'TVD								

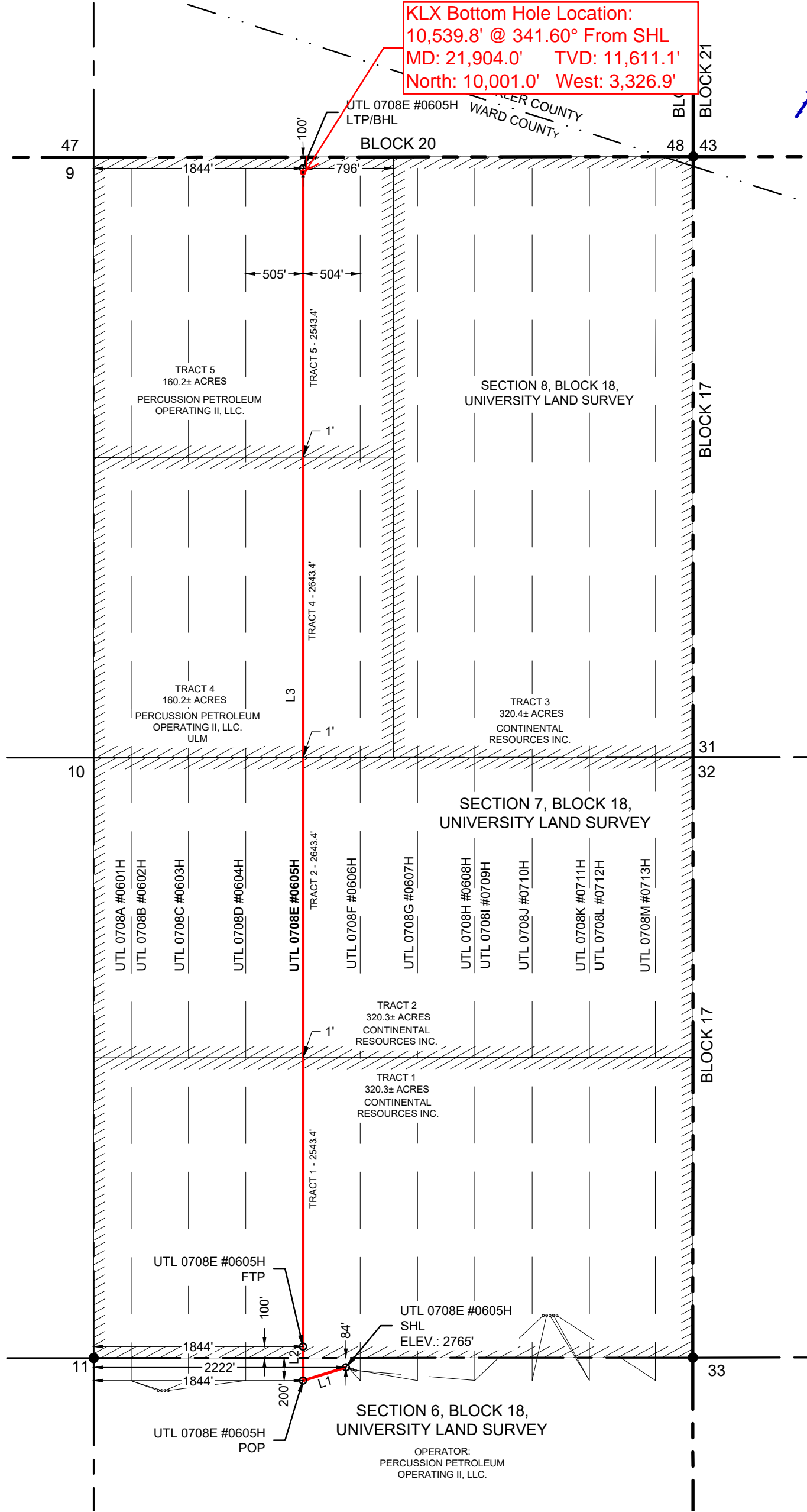
Company:	Continental Resources - WT	Local Co-ordinate Reference:	Well UTL 0708E #0605H
Project:	Ward County, TX	TVD Reference:	KB=24' @ 2789.0usft (Scan Vision)
Site:	Sec. 6, Block 18, University Land Survey	MD Reference:	KB=24' @ 2789.0usft (Scan Vision)
Well:	UTL 0708E #0605H	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	EDM 5000.1 Single User Db

Design Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
1,034.0	1,034.0	4.5	3.4	Tie In @ 1034.0'MD / 1034.0'TVD
21,904.0	11,611.1	10,001.0	-3,326.9	TD @ 21904.0'MD/11611.1'TVD

UTL 0708E #0605H	NORTHING (Y) (NAD 27)	EASTING (X) NAD 27)	LATITUDE (NAD 27)	LONGITUDE (NAD 27)	SECTION LINE		SECTION LINE		LEASE LINE		LEASE LINE		SECTION
					FOOTAGE	FNL/FSL	FOOTAGE	FEL/FWL	FOOTAGE	FNL/FSL	FOOTAGE	FEL/FWL	
SURFACE HOLE LOCATION (SHL)	722638.8'	1094212.2'	31.621033°	-103.243617°	84'	FNL	2222'	FWL	84'	FNL	2222'	FWL	6
POINT OF PENETRATION (POP)	722420.6'	1093882.1'	31.620409°	-103.244659°	200'	FNL	1844'	FWL	200'	FNL	1844'	FWL	6
FIRST TAKE POINT (FTP)	722708.9'	1093798.0'	31.621195°	-103.244953°	100'	FSL	1844'	FWL	100'	FSL	1844'	FWL	7
LAST TAKE POINT/BOTTOM HOLE LOCATION (LTP/BHL)	732667.7'	1090893.6'	31.648355°	-103.255121°	100'	FNL	1844'	FWL	100'	FNL	796'	FEL	8

LINE	BEARING	DISTANCE
L1	S 56°35'02" W	395.6'
L2	N 16°15'32" W	300.0'
L3	N 16°15'32" W	10373.6'
TOTAL		11069.2'

KLX Bottom Hole Location:
10,539.8' @ 341.60° From SHL
MD: 21,904.0' TVD: 11,611.1'
North: 10,001.0' West: 3,326.9'



NOTE: AREA IS LOCATED APPROXIMATELY 9.2 MILES NORTHWEST OF PYOTE, WARD COUNTY, TEXAS.



3300 NORTH A STREET, BUILDING 2, SUITE 120
MIDLAND, TX 79705-5471
TEL (432) 253-3255
TBPELS SURVEYING FIRM #10193998

DATE: 2/15/2023
BY: J. ALVAREZ
AVO: 046846.035

LEGEND

- SUBJECT LATERAL
- SECTION LINE
- COUNTY LINE
- BLOCK LINE
- PROPOSED LATERAL
- LEASE LINE
- FOUND MONUMENT
- UNLEASED MINERAL

NOTES:
- THE BASIS OF BEARING OF THE SURVEY IS THE TEXAS COORDINATE SYSTEM, NORTH AMERICAN DATUM 1927 (NAD 27), CENTRAL ZONE (4203).
- ALL TEXAS STATE PLANE COORDINATES AND GEOGRAPHIC COORDINATES SHOWN HEREON ARE NAD 27 GRID COORDINATES AS COMPUTED BY CORPSCON VERSION 6.0.1. ALL GEOGRAPHIC COORDINATES SHOWN HEREON WERE CONVERTED USING CORPSCON VERSION 6.0.1. UNLESS OTHERWISE NOTED, ALL DISTANCES SHOWN HEREON ARE GRID DISTANCES AND THEY CAN BE CONVERTED TO SURFACE WHEN MULTIPLIED WITH A "SURFACE ADJUSTMENT FACTOR" OF 1.000191647, AS CALCULATED BY CORPSCON.
- ELEVATIONS SHOWN HEREON ARE NAVD88 AS DERIVED BY GPS.
- THIS EXHIBIT IS FOR TEXAS RAILROAD COMMISSION WELL PERMITTING PURPOSES ONLY. BOUNDARY LINES AND ACREAGE SHOWN HEREON REFLECT THE SURVEYORS PROFESSIONAL OPINION OF MINERAL RIGHTS AS DETERMINED FROM CLIENT-PROVIDED OIL AND GAS MINERAL LEASE DOCUMENTATION. THE INFORMATION DEPICTED HEREON SHALL NOT BE USED IN THE CONVEYANCE OF FEE TITLE TO REAL PROPERTY.
- ALL MEASUREMENTS TO LEASE, UNIT, AND SURVEY LINES ARE PERPENDICULAR TO SAID LINES.
- THIS SURVEY WAS PREPARED WITHOUT THE BENEFIT OF A TITLE REPORT.

CONTINENTAL RESOURCES, INC.

PERMIT PLAT

UTL 0708E #0605H

TRACT 1 - 320.3± ACRES
TRACT 2 - 320.3± ACRES
TRACT 4 - 160.2± ACRES
TRACT 5 - 160.2± ACRES
TRACT TOTAL - 961.0± ACRES

LOCATED IN:
SECTION 6, SECTION 7, AND SECTION 8,
BLOCK 18, UNIVERSITY LAND SURVEY,
WARD COUNTY, TEXAS