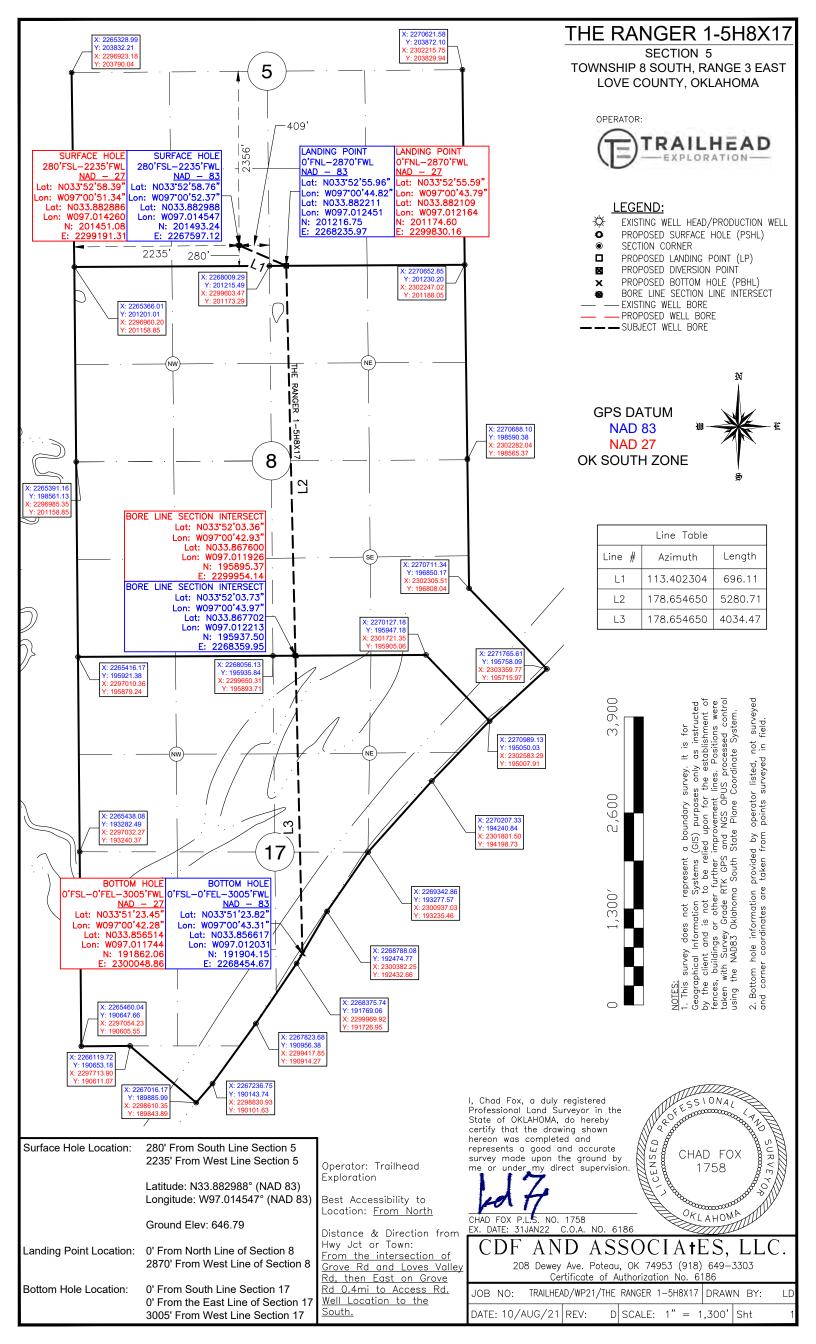
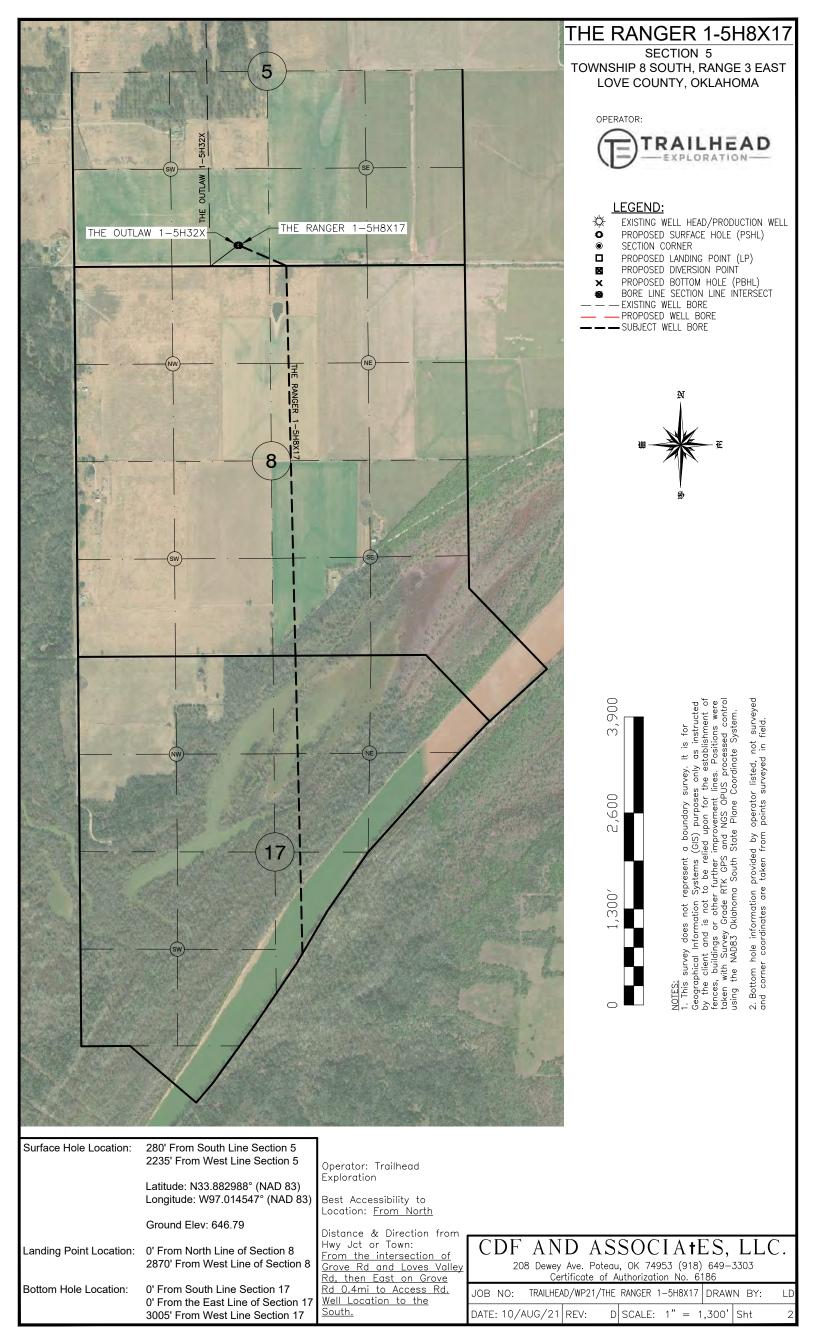
API NUMBER: 085 21331 B ulti Unit Oil & Gas mend reason: OCC CORRECTION - BHL QUARTER CALLS	OIL & GAS CONSE P.O. BC OKLAHOMA CIT (Rule 16	RATION COMMISSION ERVATION DIVISION DX 52000 'Y, OK 73152-2000 55:10-3-1) MIT TO DRILL	Approval Da Expiration D	
WELL LOCATION: Section: 05 Township: 8S	Range: 3E County: Lo			
SPOT LOCATION: SW SE SE SW FEET	FROM QUARTER: FROM SOUTH SECTION LINES: 280	FROM WEST 2235		
Lease Name: THE RANGER	Well No: 1-5H8X17		I will be 260 feet from	nearest unit or lease boundary.
Operator Name: TRAILHEAD EXPLORATION LLC	Telephone: 817330617			/OCC Number: 24401 0
TRAILHEAD EXPLORATION LLC		DONALD CRAIG WILL	IAMS & PAMELA S W	/ILLIAMS
505 MAIN ST STE 340		7401 FM 281		
FORT WORTH, TX 76102	2-5417	SUNRAY	ТХ	79086
Formation(s) (Permit Valid for Listed Formation				
Name         Code           1         MISSISSIPPIAN         359MSSP	<b>Depth</b> 15369			
2 WOODFORD 319WDFD	17733			
3 SYLVAN 203SLVN	17933			
Spacing Orders: No Spacing	Location Exception Orders:	No Exceptions	Increased Den	sity Orders: No Density Orders
Pending CD Numbers: 202101267 202101307	Working interest owners	s' notified: ***	Spe	cial Orders: No Special Orders
Total Depth: 26720 Ground Elevation: 647	Surface Casing:	3600	Depth to base of Treatable	Water-Bearing FM: 670
			Deep surfa	ace casing has been approved
Under Federal Jurisdiction: No		Approved Method for disposa	al of Drilling Fluids:	
Fresh Water Supply Well Drilled: No		D. One time land application	(REQUIRES PERMIT)	PERMIT NO: 21-37697
Surface Water used to Drill: No		H. (Other)	SEE MEMO	
PIT 1 INFORMATION		Category of Pit:	С	
Type of Pit System: CLOSED Closed System Means	Steel Pits	Liner not required for Catego	ory: C	
Type of Mud System: WATER BASED		Pit Location is:		
Chlorides Max: 5000 Average: 3000	an of pit?	Pit Location Formation:	ALLUVIUM	
Is depth to top of ground water greater than 10ft below bas Within 1 mile of municipal water well? N				
Wellhead Protection Area? N				
Pit <u>is</u> located in a Hydrologically Sensitive Area.				
PIT 2 INFORMATION		Category of Pit:	<u> </u>	
Type of Pit System: CLOSED Closed System Means	Steel Pits	Liner not required for Catego		
		Pit Location is:		
Type of Mud System: OIL BASED				
Type of Mud System: OIL BASED Chlorides Max: 300000 Average: 200000		Pit Location Formation:	ALLUVIUM	
	se of pit? Y	Pit Location Formation:	ALLUVIUM	
Chlorides Max: 300000 Average: 200000	se of pit? Y	Pit Location Formation:	ALLUVIUM	
Chlorides Max: 300000 Average: 200000 Is depth to top of ground water greater than 10ft below bas	se of pit? Y	Pit Location Formation:	ALLUVIUM	

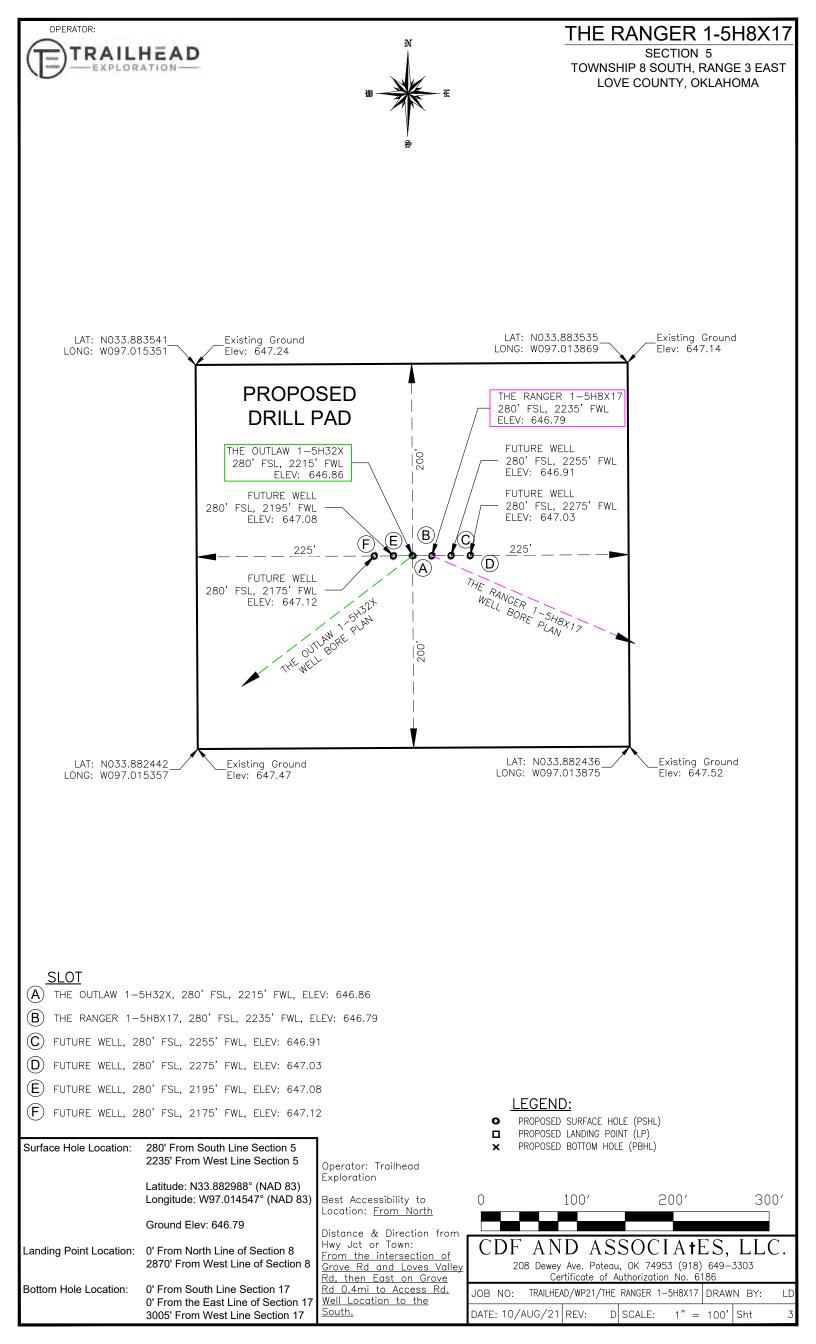
This permit does not address the right of entry or settlement of surface damages. The duration of this permit is 18 MONTHS, except as otherwise provided by Rule 165: 10-3-1. Rule 165: 10-3-4 (c) (7) (e) - The Operator shall give 24 Hours notice by telephone to the appropriate District Office of the Conservation Division as to when Surface Casing will be run.

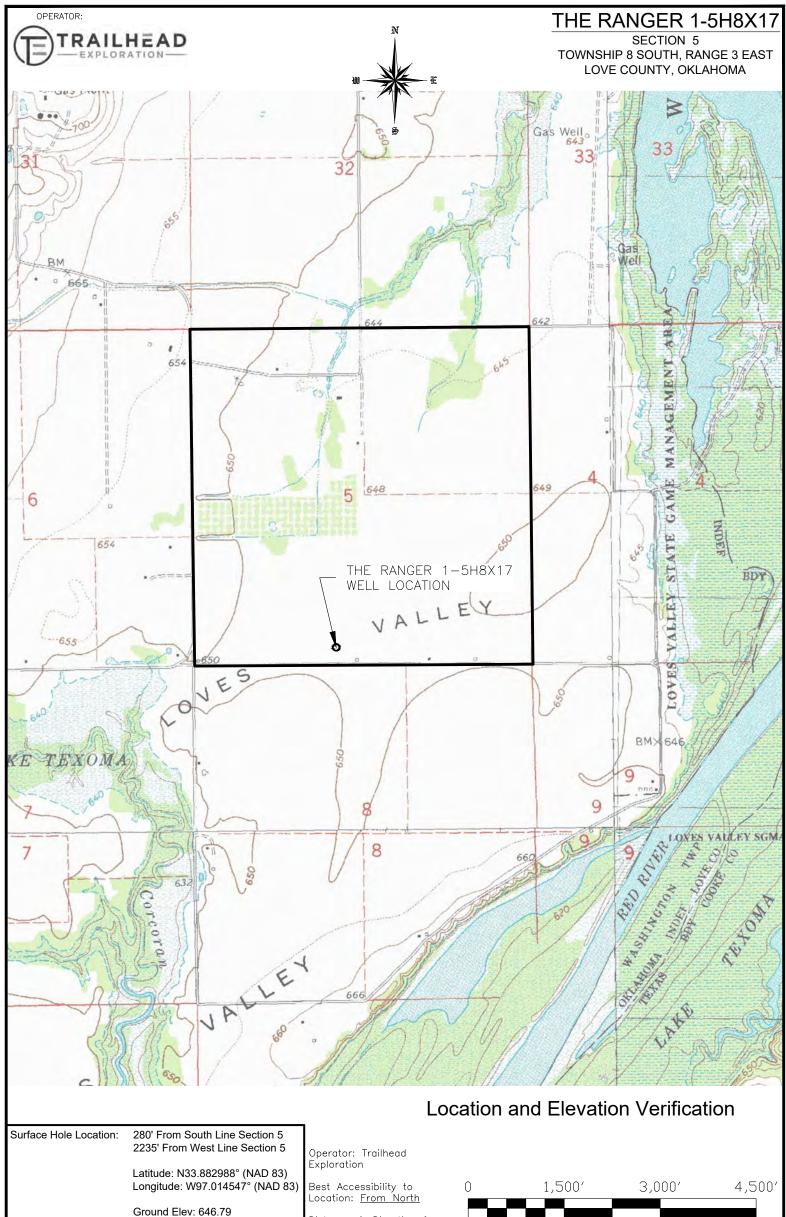
MULTI UNIT HOLE 1						
Section: 17 Township: 8	8S Range: 3E	Meridian: IM	Total Length: 90	045		
County: L	LOVE		Measured Total Depth: 26	6051		
Spot Location of End Point: S	SE SW NW	SE	True Vertical Depth: 18	8000		
Feet From: <b>SOUTH</b> 1/4 Section Line: 1		End Point Location from				
Feet From: E	EAST 1/4 Sect	tion Line: 1	Lease,Unit, or Property Line: 1			

NOTES:	
Category	Description
DEEP SURFACE CASING	[8/12/2021 - GC2] - APPROVED; (1) NOTIFYING OCC FIELD INSPECTOR IMMEDIATELY OF ANY LOSS OF CIRCULATION OR FAILURE TO CIRCULATE CEMENT TO SURFACE ON ANY CONDUCTOR OR SURFACE CASING (2) 2-STAGE CEMENTING TOOL TO BE SET AT 100' BELOW BTW (3) COPY OF CBL NEEDS TO BE SUBMITTED TO TECHNICAL
HYDRAULIC FRACTURING	[7/13/2021 - GC2] - OCC 165:10-3-10 REQUIRES:
	1) NOTICE SHALL BE GIVEN AT LEAST 5 BUSINESS DAYS PRIOR TO COMMENCEMENT OF HYDRAULIC FRACTURING OPERATIONS ON A HORIZONTAL WELL TO OPERATORS PRODUCING WELLS WITHIN 1 MILE OF THE COMPLETION INTERVAL OF THE SUBJECT WELL. THE NOTICE TO SUCH OPERATORS SHALL CONTAIN THE INFORMATION IN FORM 6000NOO. IF THE HYDRAULIC FRACTURING OPERATIONS SCHEDULE CHANGES AFTER NOTICE HAS BEEN PROVIDED, RESULTING IN A DELAY OF OPERATIONS OF MORE THAN 5 DAYS FROM THE INITIAL NOTICE, NEW NOTICE IS REQUIRED TO BE GIVEN;
	2) NOTICE WILL BE GIVEN TO THE OCC CENTRAL OFFICE AND LOCAL DISTRICT OFFICES AT LEAST 48 HOURS PRIOR TO COMMENCEMENT OF HYDRAULIC FRACTURING OPERATIONS. FORM 6000NHF SHALL BE USED AND IS FOUND AT THIS LINK: OCCEWEB.COM/OG/OGFORMS.HTML; AND,
	3) THE CHEMICAL DISCLOSURE OF HYDRAULIC FRACTURING INGREDIENTS FOR ALL WELLS IS TO BE REPORTED TO FRACFOCUS WITHIN 60 DAYS AFTER THE CONCLUSION OF HYDRAULIC FRACTURING OPERATIONS, FOUND AT FRACFOCUS.ORG
МЕМО	[8/12/2021 - GC2] - CLOSED SYSTEM=STEEL PITS PER OPERATOR REQUEST, OBM RETURNED TO VENDOR, CUTTINGS PERMITTED PER DISTRICT
PENDING CD - 202101267	[8/9/2021 - GC2] - (1280)(IRR UNIT)(HOR) 8, FRAC SECTIONS 9, 17, & 20, S2 SW4 & LOT 4 SECTION 4, SE4 SE4, E2 SW4 SE4, & E2 W2 SW4 SE4 5-8S-3E EST MSSP, WDFD, SLVN COMPL INT. (MSSP) NCT 660' FWUB/FNUB COMPL INT. (WDFD/SLVN) NCT 165' FNUB, NCT 330' FWUB*** REC. 7-26-2021(DENTON)
	***S/B COMPL INT. (WDFD) NCT 165' FNUB, NCT 330' FWUB AND COMPL INT. (SLVN) NCT 330' FUB; W/B FIXED BY THE ORDER
PENDING CD - 202101307	[8/9/2021 - GC2] - (I.O.) 8, FRAC SECTIONS 9, 17, & 20, S2 SW4 & LOT 4 SECTION 4, SE4 SE4, E2 SW4 SE4, & E2 W2 SW4 SE4 5-8S-3E X202101267 MSSP, WDFD, SLVN COMPL. INT. (8-8S-3E) NCT 0' FNL, NCT 330' FWL COMPL. INT. (17-8S-3E) NCT 0' FSL, NCT 330' FWL REC. 7-26-2021 (DENTON)









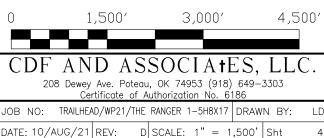
Distance & Direction from Hwy Jct or Town: From the intersection of Grove Rd and Loves Valley Rd, then East on Grove 2870' From West Line of Section 8 Rd 0.4mi to Access Rd. Well Location to the 0' From the East Line of Section 17 South. 3005' From West Line Section 17

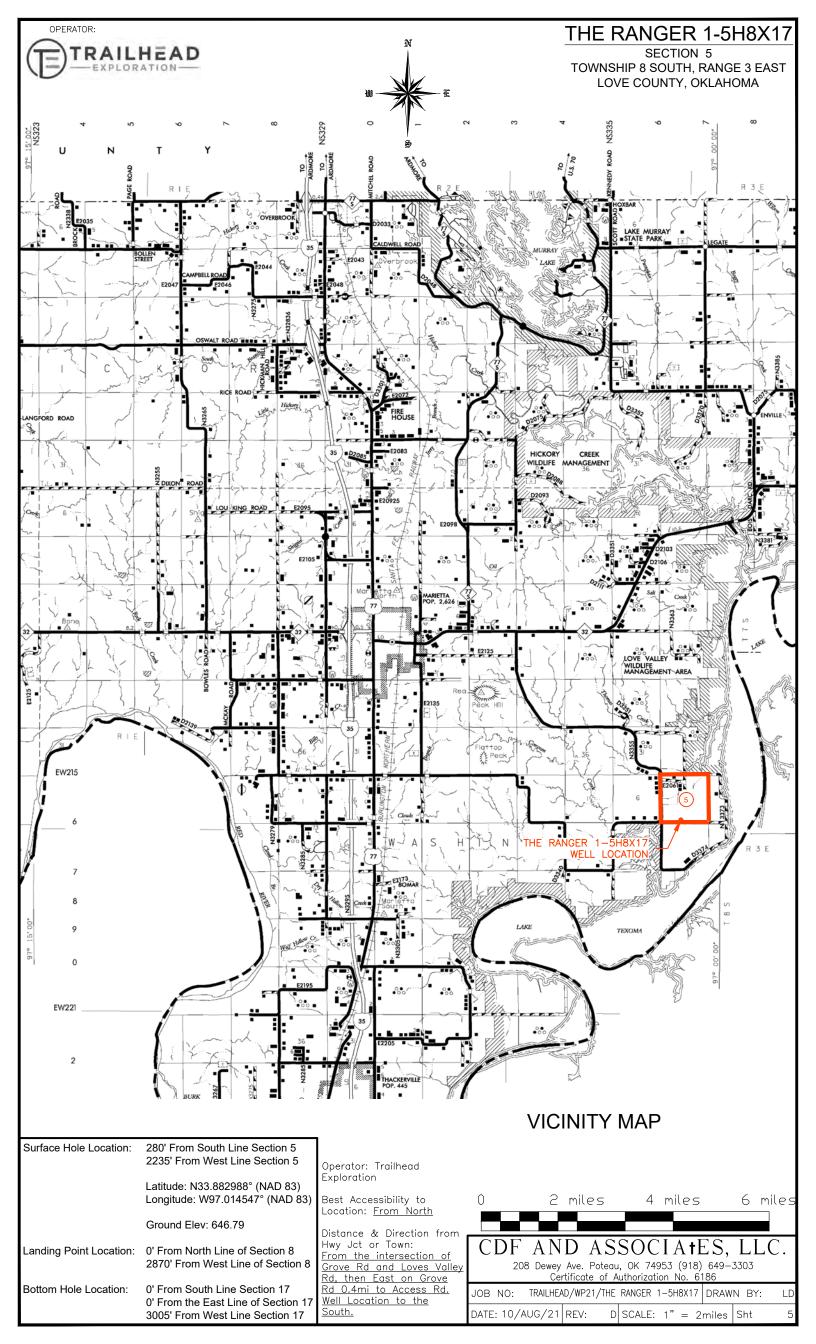
Landing Point Location:

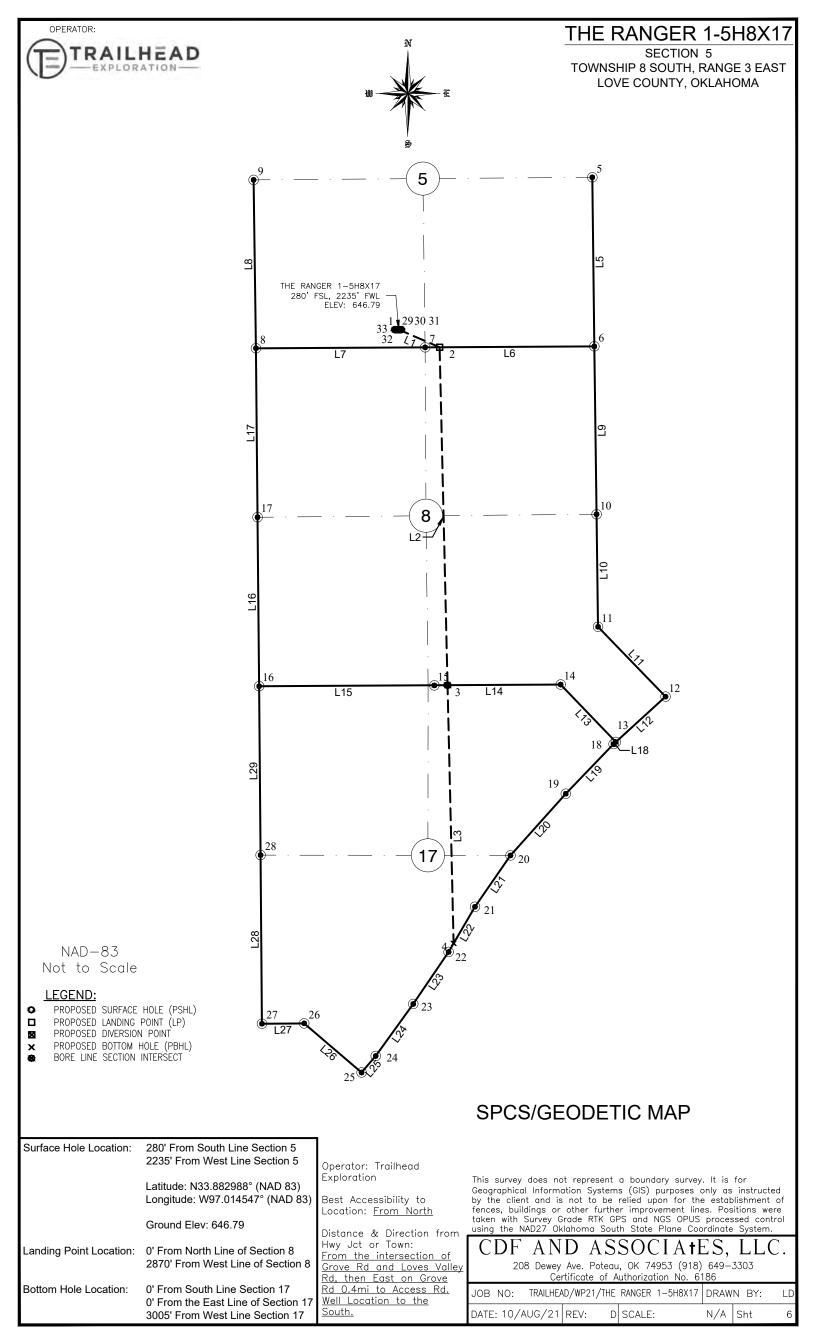
Bottom Hole Location:

0' From North Line of Section 8

0' From South Line Section 17







OPEF	RATOR:
Ð	TRAILHEAD

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## THE RANGER 1-5H8X17

SECTION 5 TOWNSHIP 8 SOUTH, RANGE 3 EAST

LOVE COUNTY, OKLAHOMA

Line Table			Point Table					
Line #	Azimuth	Length	POINT	DESCRIPTION	NORTHING (NAD83)	EASTING (NAD83)	LATITUDE (NAD83)	LONGITUDE (NAD83)
L1	113.402304	696.11	1	THE RANGER 1-5H8X17	201493.24 (usft)	2267597.12 (usft)	33.882988	-97.014547
L2	178.654650	5280.71	2	LANDING POINT	201216.75 (usft)	2268235.97 (usft)	33.882211	-97.012451
L3	178.654650	4034.47	3	BORE LINE SECTION INTERSECT	195937.50 (usft)	2268359.95 (usft)	33.867702	-97.012213
L5	179.321889	2642.08	4	BOTTOM HOLE	191904.15 (usft)	2268454.67 (usft)	33.856617	-97.012031
L6	269.681140	2643.60	5	E/4 CORNER SEC 5	203872.10 (usft)	2270621.58 (usft)	33.889443	-97.004506
L7	269.686134	2643.32	6	SW CORNER SEC 5	201230.20 (usft)	2270652.85 (usft)	33.882183	-97.004488
L8	359.193858	2631.46	7	S/4 CORNER SEC 5	201215.49 (usft)	2268009.29 (usft)	33.882214	-97.013198
L9	179.234907	2622.93	8	SW CORNER SEC 5	201201.01 (usft)	2265366.01 (usft)	33.882245	-97.021907
L10	179.234907	1757.49	9	W/4 CORNER SEC 5	203832.21 (usft)	2265328.99 (usft)	33.889476	-97.021945
L11	136.009384	1517.93	10	E/4 CORNER SEC 8	198607.50 (usft)	2270687.87 (usft)	33.874976	-97.004458
L12	227.638742	1050.84	11	CORNER SEC 8	196850.17 (usft)	2270711.34 (usft)	33.870146	-97.004438
L13	316.146452	1244.12	12	CORNER SEC 8	195758.09 (usft)	2271765.61 (usft)	33.867117	-97.001001
L14	269.686134	2071.08	13	CORNER SEC 8	195050.03 (usft)	2270989.13 (usft)	33.865192	-97.003582
L15	269.686134	2640.00	14	CORNER SEC 8	195947.18 (usft)	2270127.18 (usft)	33.867681	-97.006392
L16	359.457089	2639.88	15	S/4 CORNER SEC 8	195933.70 (usft)	2268153.27 (usft)	33.867697	-97.012894
L17	359.454162	2640.00	16	SW CORNER SEC 8	195921.38 (usft)	2265416.17 (usft)	33.867736	-97.021910
L18	227.638742	48.99	17	W/4 CORNER SEC 8	198561.13 (usft)	2265391.16 (usft)	33.874990	-97.021908
L19	223.848867	1076.28	18	CORNER SEC 17	195017.02 (usft)	2270952.93 (usft)	33.865103	-97.003702
L20	221.905822	1294.30	19	CORNER SEC 17	194240.84 (usft)	2270207.33 (usft)	33.862990	-97.006183
L21	214.646538	975.84	20	CORNER SEC 17	193277.57 (usft)	2269342.86 (usft)	33.860367	-97.009061
L22	210.297065	817.34	21	CORNER SEC 17	192474.77 (usft)	2268788.08 (usft)	33.858176	-97.010915
L23 L24	214.188826	982.46	22	CORNER SEC 17	191769.06 (usft)	2268375.74 (usft)	33.856248	-97.012295
L24	215.838515 220.556935	339.24	23	CORNER SEC 17	190956.38 (usft)	2267823.68 (usft)	33.854029	-97.014140
L25	310.556935	1179.92	24	CORNER SEC 17	190143.74 (usft)	2267236.75 (usft)	33.851812	-97.016099
L27	269.520547	659.70	25	CORNER SEC 17	189885.99 (usft)	2267016.17 (usft)	33.851110	-97.016834
L28	359.522436	2634.92	26	CORNER SEC 17	190653.18 (usft)	2266119.72 (usft)	33.853242	-97.019761
L29	359.524363	2638.97	27	CORNER SEC 17	190647.66 (usft)	2265460.04 (usft)	33.853244	-97.021934
			28	W/4 CORNER SEC 17	193282.49 (usft)	2265438.08 (usft)	33.860485	-97.021922
			29	THE OUTLAW 1-5H32X	201493.13 (usft)	2267577.12 (usft)	33.882988	-97.014613
			30	FUTURE WELL	201493.34 (usft)	2267617.12 (usft)	33.882988	-97.014481
			31	FUTURE WELL	201493.45 (usft)	2267637.12 (usft)	33.882988	-97.014415
			32	FUTURE WELL	201493.02 (usft)	2267557.12 (usft)	33.882989	-97.014679
			33	FUTURE WELL	201492.91 (usft)	2267537.12 (usft)	33.882989	-97.014745

## SPCS/GEODETIC TABLES

Surface Hole Location:	280' From South Line Section 5 2235' From West Line Section 5	Operator: Trailhead	
	Latitude: N33.882988° (NAD 83) Longitude: W97.014547° (NAD 83)	Exploration Best Accessibility to Location: <u>From North</u>	
	Ground Elev: 646.79	Distance & Direction from	
Landing Point Location:	0' From North Line of Section 8 2870' From West Line of Section 8	Hwy Jct or Town: <u>From the intersection of</u> <u>Grove Rd and Loves Valley</u> <u>Rd, then East on Grove</u>	CDF AND ASSOCIAtES, LLC. 208 Dewey Ave. Poteau, OK 74953 (918) 649-3303 Certificate of Authorization No. 6186
Bottom Hole Location:	0' From South Line Section 17 0' From the East Line of Section 17 3005' From West Line Section 17	Rd 0.4mi to Access Rd. Well Location to the South.	JOB NO:         TRAILHEAD/WP21/THE         RANGER         1-5H8X17         DRAWN         BY:         LD           DATE:         10/AUG/21         REV:         D         SCALE:         N/A         Sht         7