

# ***Unison Drilling Inc.***

***Office 830-663-4700***

***Rig #17***

**Cabot 750**

**Depth Capacity – 9000'**

## **Drawworks: S/N 1033001**

Cabot 750 HP, Double Drum Drawworks Lebus grooved for 1 1/8" drill line and Powered by 2- CAT 3406B diesel engines with Allison HT-750 transmissions. R&H 22" Double Hydromatic brake and Crown-O-Matic.

## **Mast: Cabot Model 112-300 S/N 103001**

Cabot 112' Telescoping Double Mast rated at 300,000# Static Hook Load. Hydraulically raised, 7 sheave crown block, Crown safety platform, Ladder & Guylines.  
All above mounted on a Franks 4 axle trailer.

## **Substructure:**

Franks 40' long x 12' wide x 15' high (12' clearance below the rotary table), 350,000# rotary capacity and 200,000# setback capacity, equipped with V-door and stairs.

## **Rotary Table:**

17 1/2" Rotary Table with Split Master Bushing.

## **Mud Pumps:**

#1 Gardner Denver style MZ-9 triplex pump rated @ 1000HP, belt driven by Cat 398.

#2 Gardner Denver style MZ-9 triplex pump rated @ 1000HP, belt driven by Cat 398.

## **Mud System:**

2 steel tank mud system with 625 barrels total working volume.

Suction Tank Skid 10' Wide x 6' High x 45' Long (including 12' Long Porch extension)

Slug Tank = 75 BBLs, Suction Tank (2 compartments) = 230 BBLs.

(3) Compartments with Flat bottom, internal plumbing and top mounted walkways & handrails.

(2) 5" x 6" Centrifugal mixing pumps with 50 HP electric Motors.

(3) FSI 10 HP Low Profile Mud Agitators.

Shaker Tank Skid 10' Wide x 6' High x 45' Long (including 11' Long Porch extension)

Solids control tank (3 compartments) = 240 BBLs, Sand Trap = 80 BBLs.

New Brandt 12 cone Desilter and New Brandt 2 cone Desander.

(3) Compartments with Flat bottom, internal plumbing and top mounted walkways & handrails.

(2) 5" x 6" Centrifugal pumps.

(2) FSI 10 HP Low Profile Mud Agitators.

Re-conditioned Fluid System's FSI Series 5000 High G Force Linear Dual Shakers.

**Generator House:**

(2) Detroit 350 KW AC Generators Powered by Detroit Series 60 Diesel Engines w/ Electric Start.  
(1) 75 KVA Transformer.  
(2) Air Compressors - Quincy M/N QR390 Powered by 20HP Baldor Electric Motors.  
All above mounted in 10'W X 40'L Skidded House.

**Fuel Tank:**

12,000 Gal. Skid mounted fuel tank with 4 compartment Lubister and 8'W X 12'L Pump House.

**Water Tank - Top Doghouse:**

425 barrel water storage tank 10'W X 8'H X 30'L with pop up dog house and 20' covered porch.  
(2) Double Life 3" X 4" Centrifugal water pumps powered by 30 HP electric motors.

**Doghouse:**

8'W X 20'L Dog House w/(3) Lockers, Knowledge Box & Bench Storage.

**Change / Parts House:**

10'W X 40'L Skid w/ 17'L Change House with 20 Lockers & 20'L Parts House with Shelving.

**Accumulator:**

5 Station Accumulator with 295 gal tank and (12) 11 gal accumulator bottles mounted on water tank skid and 5 station Remote mounted on porch on outside of doghouse.

**Blowout Preventers:**

11" x 5,000# Cameron with 4 1/2" pipe and blind rams, 11" x 5,000# GK Hydril annular, 5,000# choke manifold.

**Traveling Equipment**

Block: Emsco YG 135, 150 ton Block and Wilson 150 Hook, 8 sheave grooved for 1 1/8" drill line.  
Swivel: SLT 170, 180 Ton swivel equipped with Oil Works M/N OWI 1500 kelly spinner.  
Elevator Bails: 2 1/4" X 9'L 250 Ton.

**Kelly**

4 1/2" X 38' Hex Kelly.

**Instrumentation:**

Atlas Type FS 300,000lb Weight Indicator, Pump Pressure Gauge, (2) Tong line pull gauges & Rotary Torque Gauge.  
Atlas Automatic Driller.

**Miscellaneous Related Equipment:**

Five Star Wireline Retriever with 15 HP electric motor and .092 wire line.  
4 pipe boxes.  
3 sets of pipe racks.  
45' Long Cat Walk/Collar Basket.  
Gas Buster.

### Mud Pump Specifications

#### MZ-9 Performance specifications

<b>Liner Size:</b>	6-1/2"	6-1/4"	6"	5-1/2"	5"	4-1/2"	4"
<b>Discharge PSI:</b>	3060	3310	3592	4274	5000	5000	5000
<b>Gal/Rev:</b>	3.88	3.59	3.3	2.78	2.29	1.86	1.47
	<b>GPM:</b>	<b>GPM:</b>	<b>GPM:</b>	<b>GPM:</b>	<b>GPM:</b>	<b>GPM:</b>	<b>GPM:</b>
130	504	466	429	361	297	241	191
120	465	430	396	333	274	223	176
<b>110</b>	426	394	363	<b>305</b>	251	204	161
100	388	359	330	278	229	186	147
90	349	323	297	250	206	167	132
80	310	287	264	222	183	148	117

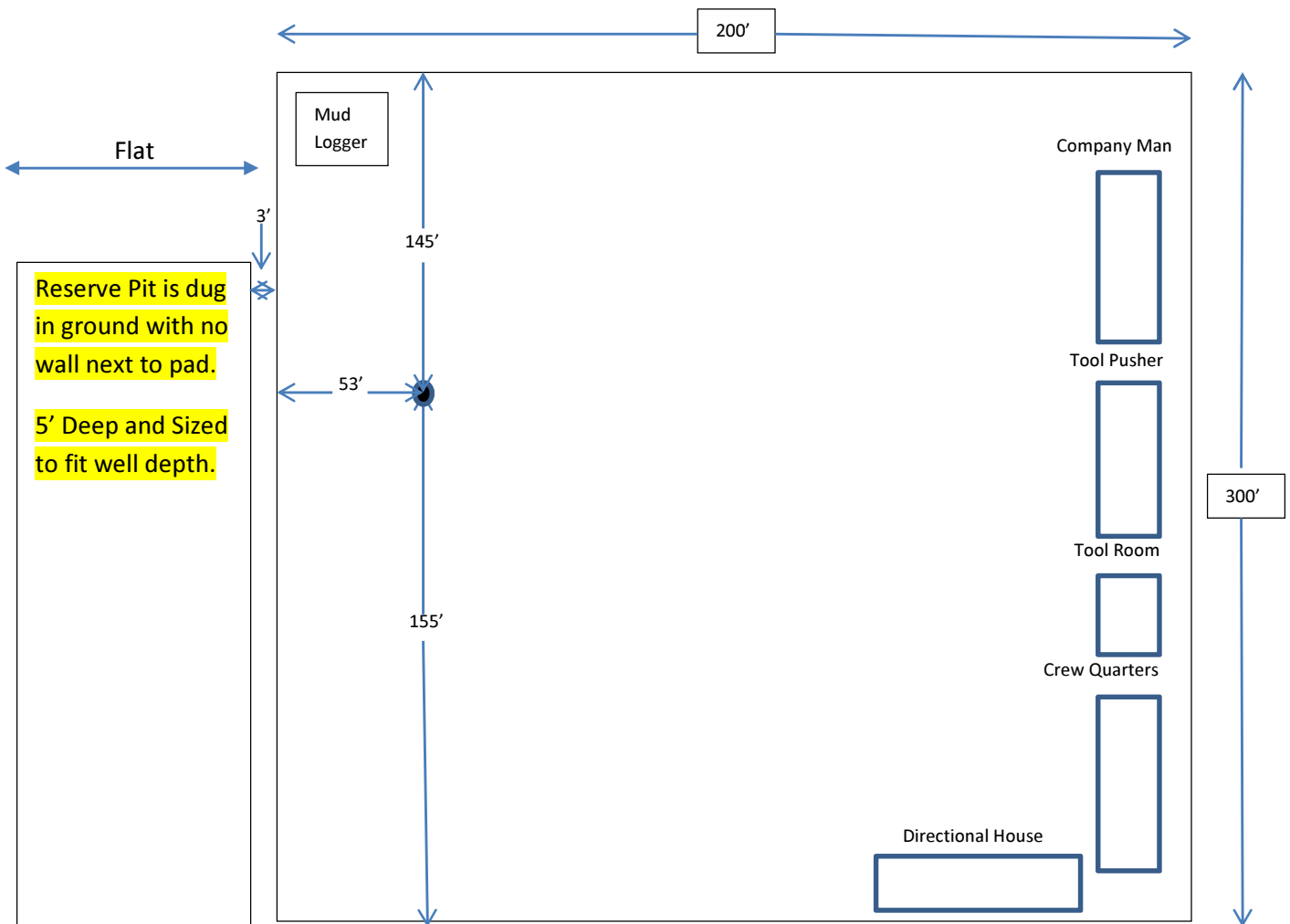
**Max. Input: 1000 hp**  
**Max. Speed: 130 SPM**  
**Gear Ratio: 4.48:1**

# Unison Drilling Inc.

2070 FM 3176  
Devine, Texas 78016  
830-663-4700

## Rig #17

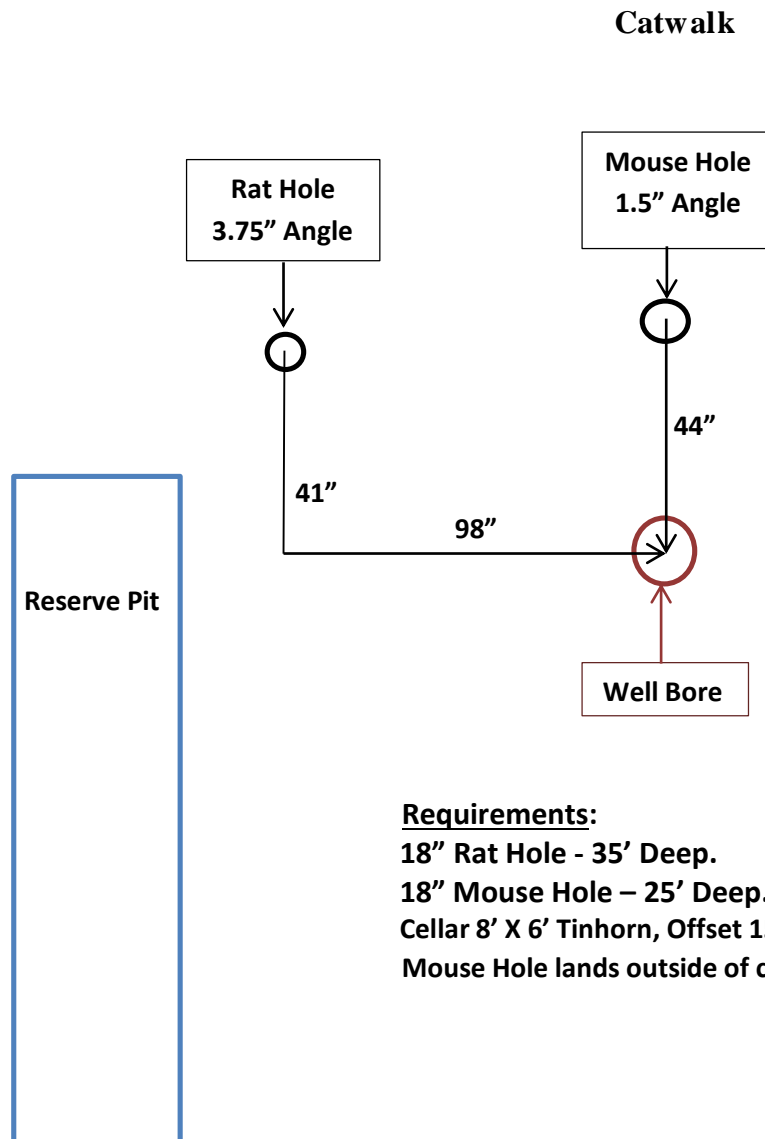
### Location Plat --- Not to Scale



# Unison Drilling Inc.

Rig #17

## Rat & Mouse Hole



**Requirements:**

**18" Rat Hole - 35' Deep.**

**18" Mouse Hole – 25' Deep.**

**Cellar 8' X 6' Tinchorn, Offset 15" away from the Mouse hole so that Mouse Hole lands outside of cellar.**