

Unison Drilling Inc.

Rig #11

P.O. Box 715

Devine, TX. 78016

830-663-4700 Fax 830-663-4725 830-663-4703

Depth Capacity – 9000'

Drawworks

IRI Franks model 2042 drawworks grooved for 1 1/8" drill line, Parmac SR-22 hydromatic brake Powered by 2 CAT 3406 diesel engines with an Allison HT-750 transmission rated at 750 HP, dual hydraulic catheads, hydraulic pump, air clutches, Bendix Tru-Flow compressor.

Mast

IRI Franks 112', 300,000# SHL telescoping mast, hydraulically raised and scoped with dual rams, mounted on Franks 6 axle carrier.

Substructure

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

Mud Pumps

#1 RSF - 1000 Triplex pump, chain driven, powered w/Cat D-399 diesel engine.

#2 RSF - 1000 Triplex pump, chain driven, powered w/Cat D-399 diesel engine.

Mud System

2 steel tank mud system – 719 barrels total working volume, National Oilwell 2-cone desander, National Oilwell 12-cone desilter, Dual Brandt King Cobra Shale Shakers.

National Oilwell caustic/chemical mixing barrel, National Oilwell high volume mud hopper, 4 – 6x5 centrifugal pumps powered by 60 HP electrical motors.

59 bbl Trip Tank.

Generator House

2 CAT SCR4 350 KW AC generators, powered by CAT C-15 diesel engines.

Fuel Tank

Skid mounted 8000 gallon with transfer pumps.

Water Tank – Top Doghouse

500 barrel storage tank with pop up dog house, Satellite Automatic Drilling Control system, 1 pen Eastman/Star drilling recorder.

Blowout Preventers

11" x 5,000# Shaffer LWS with 4 1/2" pipe and blind rams, 11" x 5,000# GK Hydril annular, 8 bottle, 5 station M-series accumulator with remote on floor, 5,000# choke manifold.

Rotating Equipment

Gardner Denver 175 17 1/2" rotary with split master bushings, 40' Hex Kelly with Varco drive bushings.

Traveling Equipment

Web Wilson – 150 ton block and hook, 8 sheave grooved for 1 1/8" drill line

National P200 swivel equipped with Foster kelly spinner

Drill String

300 jts. 4 1/2" XH, 16#, Grade E, Range 2 drill pipe, 16 – 6 1/4" drill collars

Miscellaneous Related Equipment

Mathey Hydraulic wire line with 15 HP electric motor and 12,000' of .092 wire line.

4 pipe boxes.

3 sets of pipe racks.

45' Long Cat Walk/Collar Basket.

Gas Buster.

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Mud Pump Specifications

RSF-1000 Performance specifications

Liner Diameter:	6-3/4"	6-1/2"	6-1/4"	6"	5-1/2"	5"	4-1/2"
Discharge pressure:							
(PSI)	2378	2552	2770	3002	3567	4322	5003

SPM	GPM							
140		650	602	558	513	431	356	288
130		603	559	518	477	400	331	268
120		557	516	441	440	369	305	247
110		510	473	438	403	339	280	226
100		464	430	398	367	308	255	206

Gear Ratio is 4.207:1

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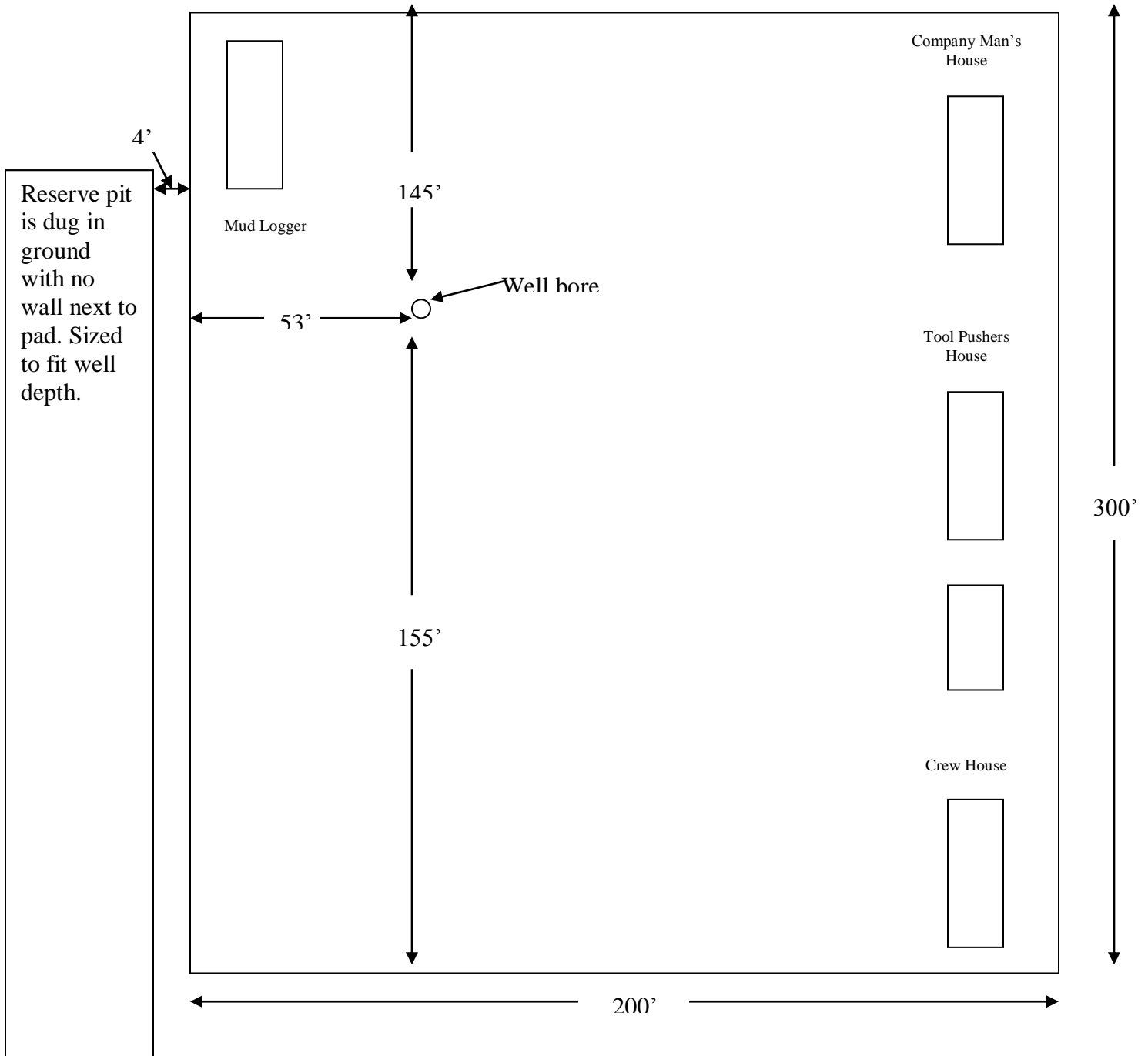
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Location Plat – Not to scale



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Mud Tank System

System Total : 719 bbls. Height: 60 Inches

Desilter Tank 95 bbls. 1.58 bbls / inch	Desander Tank 115 bbls. 1.92 bbls / inch	Sand Trap 80 bbls. 1.33 bbls / inch
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Slug Tank 40 bbls. .67 bbls/inch	Suction Tank 1 170 bbls. 2.83 bbls / inch	Suction Tank 2 160 bbls. 2.66 bbls / inch
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Trip Tank 59 bbls. .98 bbls/inch

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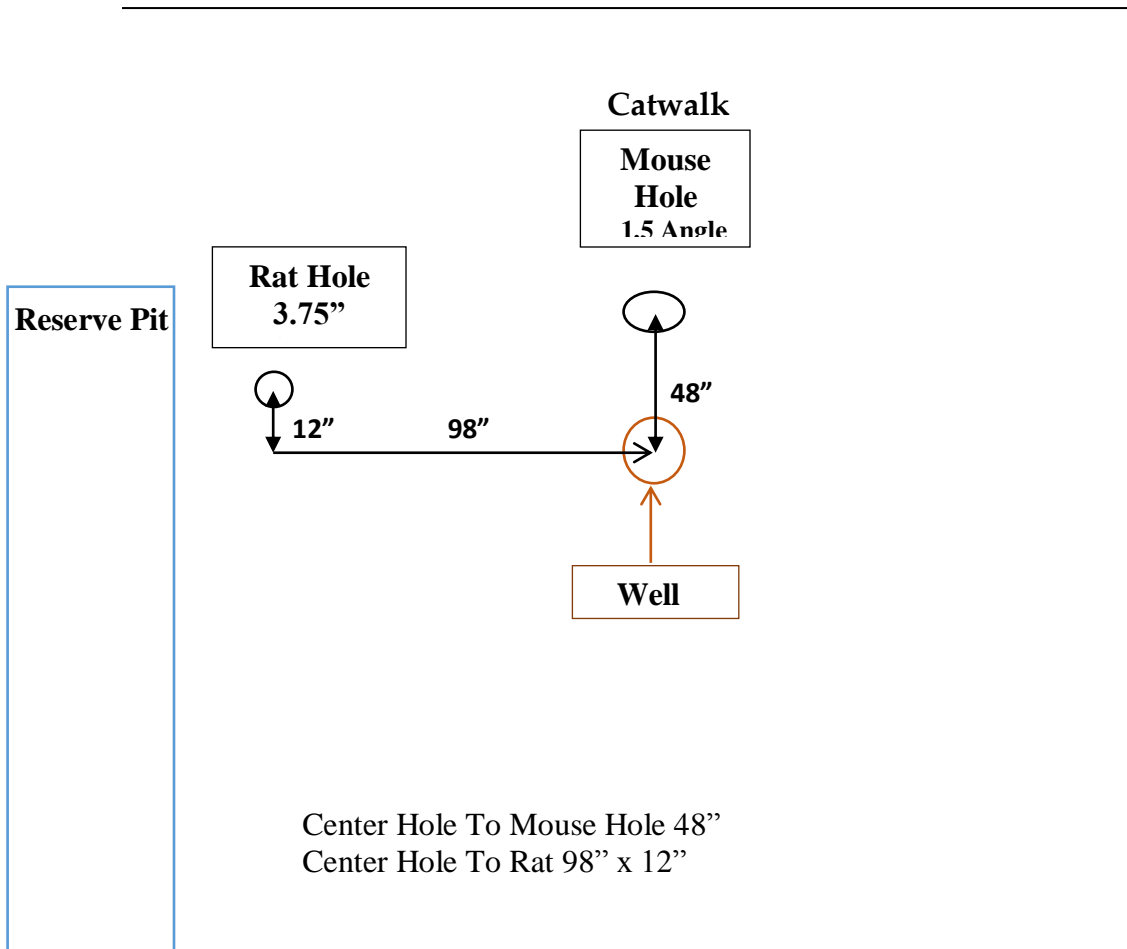
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Mouse & Rat Hole

Center Hole To Edge Of Reserve Pit 45 Feet



Center Hole To Mouse Hole 48"

Center Hole To Rat 98" x 12"

Requirments:

18" Rat Hole

18" Mouse Hole

Conductor – **As Per Unison**

Cellar 8' X 6' Tinhorn