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# MAST CERTIFICATION PLAQUE

OWNER
MARTEX DRILLING COMPANY

Built For:
GARNETT DRILLING

MAST MANUFACTURER
CUSTOM WELDING LTD

RIG NO.
4

MODEL NO. 550

SERIAL NO. 78-03-1551-001

MANUFACTURED AUGUST 1978

HEIGHT 131'

BASE WIDTH 18'-6"

## MAXIMUM RATED STATIC HOOK LOAD

| | | |
|---|---|---|
| 10 | LINES | 390,000 Lbs. |
| | LINES | GROSS NOMINAL 550,000 Lbs. |

| HOOK LOAD | PIPE SETBACK | MAXIMUM WIND |
|---|---|---|
| | | 11[illegible] MPH |

CAUTION

ACCELERATION OR IMPACT LOADS, ALSO SETBACK AND WIND LOADS, WILL REDUCE THE MAXIMUM RATED STATIC HOOK LOAD. MANUFACTURED AND DESIGNED IN ACCORDANCE WITH A.P.I. STANDARD 4E, SECOND EDITION.

DESIGNED BY
ALLAN R. NELSON ENGINEERING

FILE NO.
78-03-1551

DATE
AUGUST 1978

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Canadian Block

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ALBERTA CANADA
MAX STATIC LOAD
22241dN, 250Ton

S/N:CBM-BK-250-8
5 X 36 X 1-1/8

Co#:
MFG DATE: Dec,2014

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GC-350T

CONTINENTAL EMSCO GC

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C-195-80 F

3405 1-6965

15 GALS

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F - 1000 POWER PUMP SERIAL

PERFORMANCE AT MAXIMUM 1000 HP INPUT & 140 SPM

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| PISTON | SIZE | 6 3/4 | 6 1/2 | 6 1/4 | 6 | 5 1/2 | 5 | 4 1/2 |
| PRESSURE | MPa | 16.4 | 17.6 | 19.1 | 20.7 | 24.6 | 29.8 | 35.0 |

LUBRICATION SPECIFICATIONS

USE EXTREME PRESSURE NON-CORROSIVE

TEMP 30 ° F TO 155 ° F AGMA NO.6 E.P.

TEMP 0 ° F TO 125 ° F AGMA NO.4 E.P.

(CONSULT LUBRICATION MANUAL)

CRANKCASE CAPACITY: 75 GALLONS

LANZHOU HUATONG PETROLEUM MACHINERY MANUFACTURE CO., LTD

LANZHOU CHINA

SERIAL NO. [illegible] DATE [illegible] NO. 7K-0109

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50 55 60
45 HERTZ 65

100 200 300 400 500
0 AC VOLTS 600

GEN 2




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240 480

5N-0046

*5NA11956*

GENERATOR MODEL SR4

SERIAL NUMBER 5NA11956

COMPLIES WITH BS5000 PART 3 NEMA MG1-22 24-1 SS 8524-3

CATERPILLAR®

ARRANGEMENT NUMBER 5N-5078

MADE IN: USA

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CAT
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PHASE SELECTOR
AC VOLTS
HERTZ
AC AMPS
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VOLTAGE ADJUST
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START
EMERGENCY STOP
DC VOLTS
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MAGNAMAX DVR

CE

SYNCHRONOUS AC GENERATOR

| | | | | | |
|---|---|---|---|---|---|
| MODEL | 433RSL4021 | | | | |
| SERIAL | MT-0016720 12/14 | | | | |
| FRAME | 433 | RPM | 1800 | | |
| PH | 3 | HZ | 60 | TYPE | RSL |
| ENCL. | OPEN | PF | 0.8 | AMB. | 40° C |
| INS. CLASS | H4 | RISE BY RES. | | | 80° C |
| FIE | | | | | 55 |

CONTINUOUS

| | | | |
|---|---|---|---|
| KW | 325 | VOLTS | 277/480 |
| KVA | 406 | AMPS | 847/489 |

STANDBY SERVICE

| | | | |
|---|---|---|---|
| KW | | VOLTS | |
| KVA | | AMPS | |

DRIVE END BEARING NA EXCITER END BEARING A-7812R-70

REGULATOR NO. DVR2000E+ PMG VOLTS 180 PMG HZ 300

ASSEMBLED IN MEXICO

GREASING INSTRUCTIONS

LUBRICATE GENERATOR EVERY 6500 OPERATING HOURS OR ANNUALLY WITH 2.1 CUBIC INCHES OF EXXON POLYREX EM OR EQUIVALENT GREASE WITH A TEMPERATURE RANGE OF -30° C TO 175° C

MARATHON ELECTRIC

WAUSAU, WISCONSIN 54401 U.S.A.

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CAT

SER NO. JRE01573 ENGINE MODEL C15

CERT NO.

MODIFICATION NO. SEE ORDER MAX 1500 M ALT 4922 FT

AR NO. 254-3835 ECM SOFTWARE 28

CORE AR

OEM NO.

FLS (INTERCEPT) 4 FTS (SLOPE) -8

AOV 540 HP 403.0 kW MAX HP kW

SEE SERVICE TOOL TO VERIFY

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# KITCHEN'S MUD SERVICE

ENID, OKLAHOMA
Home (580) 234-2158
Cell (580) 541-8626

DRILLING MUD REPORT NO. 28

DATE 12/12/2017 | DEPTH 8,370

STATE | COUNTY | WELL | SEC

OPERATOR: CHOATE DISPOSAL

ADDRESS: RIG

REPORT FOR MR: RYAN

CONTRACTOR: QUAD ELDRADO

ADDRESS: RIG

REPORT FOR MR: JOE & RICHARD

RIG NO: 3

SPUD DATE: 1/14/2017

SECTION TWSHP RANGE: 1-17N-6W

WELL NAME AND NO: CHOATE SWD @2

FIELD / BLOCK NO:

COUNTY PARISH / OFFSHORE AREA: KINGFISHER

STATE OR PROVINCE: OKLAHOMA

| OPERATION | CASING | Mud Vol. (bbls) | CIRCULATION DATA |
|---|---|---|---|
| PRESENT ACTIVITY: WOC. | SURFACE: 9 5/8 IN @ 510 FT | HOLE 753 PITS 500 | PUMP MAKE AND MODEL: F1000 |
| BIT SIZE (IN) 8 3/4 NO. 7 | INTERMEDIATE: IN @ FT | Total Cir Volume 1253 | PUMP SIZE: 6 x 10 |
| DRILL PIPE SIZE 4 TYPE XH | DRILLING LINER: IN @ FT | Drill Stem Capacity 87 | BBL/STROKE 0.07872 STROKE/MIN 90 |
| DRILL COLLAR SIZE 6 1/4 LENGTH 470 | PRODUCTION: IN @ FT | BBL/MIN | GPM |

ANNULAR VELOCITY: AROUND D.P. 86 ft/min; AROUND D.C. 117 ft/min

CIRCULATING PRESSURE: 1460 psi

BOTTOMS UP 94 min

TOTAL CIR. TIME 177 min

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| Mud Properties | | | |
|---|---|---|---|
| Sample From ☐ Flowline ☐ Pit | | | |
| Flowline Temperature (°F) | | | |
| Time Sample Taken | 10:00 | | |
| Depth (ft) | 8,370 | | |
| Mud Weight ☐ (ppg) ☐ (lb/cu. ft.) | 8.3 | | |
| Mud Gradient (psi/ft) | 0.4316 | | |
| Funnel Viscosity @ °F | 28 | | |
| Plastic Viscosity cp @ °F | 0 | | |
| Yield Point (lb/100ft2) | 0 | | |
| Gel Strength (lb/100ft2) 10sec/10 min | 0 | | |
| Filtrate API (cm3/30 min) | 0 | | |
| Filtrate API HTHP (cm3/30 min) | | | |
| Cake Thickness (32nd in API/HTHP) | 0 | | |
| Solids (% by vol) ☐ Calculated ☐ retort | 0 | | |
| Liquid Content (% by Vol.) Oil/Water | 0 | | |
| Sand Content (% by vol) | 0 | | |
| Meth. Blue Cap. ☐cc ☐lb/bbl mud | | | |
| pH ☐ Strip ☐ Meter | 0 | | |
| Alkalinity Mud (Pm) cm3 N/50 Acid | 0 | | |
| Alkalinity, PfMf | 0 | | |
| Chloride (mg/l) | 0 | | |
| Total Hardness as Calcium (mg/l) | 0 | | |
| Oil Content (% by vol) | | | |
| LCM (lb/bbl) | 0 | | |

| Equipment | HRS/TOUR | | HRS/TOUR |
|---|---|---|---|
| Centrifuge | | Desilter | |
| Degasser | | Shaker | |
| Desander | | Other | |

| Jet Velocity | Horse Power |
|---|---|
| 91 FT/SEC | 0.2 HP/SQ.IN |
| Surface to Bit- 12 min | ECD = 8.3 ppg |
| DAILY COST | $369.75 |
| CUMULATIVE COST | $69,298.25 |

MUD PROPERTIES SPECIFICATIONS

WEIGHT 9.0-9.1 | Viscosity 55 | Filtrate 4-6cc

By Authority Of: ☐OPERATOR'S WRITTEN ☐DRILLING CONTRACTOR ☐OPERATOR'S REPRESENTATIVE ☐OTHER

RECOMMENDED TREATMENT

MUD & LCM SCHEDULED TO PICK UP @ 15:00.

THANKS.

Remarks:
CMT 2ND STAGE W/ FULL RET, 3RD W/ FULL RET,
19:30 NIPPLE DWN, 21:30 NIPPLE UP & WOC.

| Chemicals | GEL | soda ash | caustic | lignite | drispac | hulls | sawdust | lime | ALS | bicarb | KI | dextrid | BAR | gyp mud |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Starting Inventory | 336 | 30 | 44 | 14 | 31 | 100 | 13 | 99 | 2 | 0 | 40 | 20 | 126 | 0 |
| Received | | | | | | | | | | | | | | |
| Closing Inventory | 319 | 18 | 44 | 14 | 31 | 90 | 13 | 99 | 2 | 0 | 40 | 20 | 126 | 0 |
| Chemicals Used | 11 | 3 | 0 | 0 | 0 | 10 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

TECHNICAL REPRESENTATIVE: DAVID PIERCE

HOME ADDRESS: VICI

TELEPHONE: 580-216-5575

MOBILE UNIT

WAREHOUSE LOCATION: Enid

TELEPHONE

Choate Swd #2

Projected Tops

| | |
|---|---|
| Topeka | 3530' |
| Hoover | 3641' |
| Elgin | 3974' |
| Endicott | 4172' |
| Oread | 4279' |
| Lovell | 4475' |
| [illegible] | 4725' |
| Cott Groove | 6140' |
| Bis Lime | 6295' |
| Oswego | |

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AIR

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