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MANUFACTURE
SPECIFICATION 45
SECOND EDITION

1500 H

Shanghai Otwell

LOCATION [] LS-NOI CO LTD CHINA

NO. [] YEAR []

DATE MANUFACTURED MONTH [] YEAR []

NUMBER []

HEIGHT [] FT [] 43 [] METERS

MAXIMUM RATED STATIC WORKLOAD WITH []

12 [] 75,000 [] LB [] 40 [] TONNES

[] 3 [] TONNES

TO IPAY [] HOOK []

750,000 [] MAXIMUM WIND []

[] []

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PERCENTAGE OF MAXIMUM WIND SPEED WITH WHICH THE
ACCELERATION ON IMPACT ALSO SETS OFF AND MINIMUM LOADS
REACH THE MAXIMUM VALUES AT THE MAXIMUM WIND LOAD



REGISTRATION
SECOND EDITION

Shanghai Oilwell

MODEL LOCATION

SHENYANG NO.1 CO. LTD. CHINA

MODEL NUMBER

9

DATE MANUFACTURED MONTH

YEAR

NUMBER

141-6

HEIGHT

141-6 FT 43 METERS

MAXIMUM RATE OF STATIC HOOK LOAD WITH

12 LINES 750,000 LB 40 TONNES

TRAVELLING BLOCK TYPE SETSACK

750,000 LBS 330 TONNES

HOOK LOAD

750,000 LBS

330 TONNES

MAXIMUM WIND

40 MPH

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500 lb SWL

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UNIT
IT IS YOUR RIGHT AND
RESPONSIBILITY TO
WORK FOR UNSAFE
ACTS OR CONDITIONS

200 hp 2WJ

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1993

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JC50D DRAWWORKS

RATED INPUT POWER 1500 Hp
 INPUT ROTATE SPEED 970 r/min
 NOMINAL DIAMETER OF WIRELINE $\Phi 1\frac{3}{8}$ "
 FAST LINE PULL FORCE 76.485Lb
 WEIGHT 84.873Lb
 OVERALL DIMENSION 23.6' X 10.6' X 3.3'

RATED FOR 1500 COMBINED ENGINE HORSEPOWER MAXIMUM RECOMMENDED LOADS

DRUM CLUTCH TRANSMISSION		LOW		HIGH	
		LOW	HIGH	LOW	HIGH
TOTAL LOAD THOUSAND POUNDS	8LINES	508	326	182	115
	10LINES	612	392	219	139
	12LINES	709	454	254	162

THESE LOADS ARE THE HEAVIEST THAT CAN BE HANDLED WITHIN THE DESIGNED CAPACITY OF THE DRAWWORKS AND REQUIRE AN INPUT TORQUE OF 9500LB.FT, WITH LESS TORQUE THE LOADS WILL BE REDUCED PROPORTIONATELY

Serial No. 105009 DATE 2005 11



No.198 XIJING WEST ROAD LANZHOU GANSU
 LANZHOU LS-NOW PETROLEUM ENGINEERING CO.,LTD. THE PEOPLE'S REPUBLIC OF CHINA

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MODEL DS50 EDDY CURRENT BRAKE

Nominal Drilling Depth Capacity : 16000 Ft

Torque at 50 rpm : 45000 Ft-Lbs Full on Power : 12 kW

Max R.P.M : 500 r/min Full on Excitation : 43 A

Cooling Water Requirement 75 GPM Insulation Class of the Coils H

Size : 55" x 69" x 67" Weight : 14190 Lbs

Serial No. : 105 014

Date : 2005 10

LANZHOU LS-NATIONAL OILWELL PETROLEUM ENGINEERING CO. LTD. THE PEOPLE'S REPUBLIC OF CHINA



Address: 198 Xijin West Road China, Lanzhou, China



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ZP375



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46-324 09-324 37-324



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A photograph of an offshore oil rig deck. The deck is a white-painted metal structure with various pieces of equipment. In the foreground, several large hoses are visible, including a prominent orange and black corrugated hose and a grey smooth hose. A red pipe is also visible. In the background, there are more hoses, a yellow metal structure, and a piece of machinery. The sky is blue with some light clouds. The text 'www.PetroRigs.com' is overlaid in the center of the image.

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DERRICK

FLC-500

47-482

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47-482
18707-1120
EHT 10/06
016



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CAUTION
DO NOT
PROCEED WITH
AIR CONDITIONING
UNTIL
PRECAUTIONS
PROGRAM & PRESSURE
HAS BEEN SET
AND REEVALUATED

BY 10004

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CAUTION
EAR PROTECTION
REQUIRED



NOTICE
NO ENTRY

WARNING
LOCK OUT
ELECTRICAL SWITCHES
BEFORE WORKING
ON EQUIPMENT

NOTICE
IT IS YOUR RIGHT AND
RESPONSIBILITY TO
WORK FOR HEALTHY
SAFE AND SOUND
WORKING CONDITIONS

NOTICE
AUTHORIZED
PERSONNEL
ONLY

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AIR SUPPLY PRESSURE



MANIFOLD PRESSURE



ACCUMULATOR PRESSURE



ANNULAR PRESSURE



OPEN AIR SUPPLY



Cancel Alarm Sound

Low pressure of Accumulator

Low Air supply Pressure

Electric Pump Running

Alarm Panel



OPEN ANNULAR CLOSE ANNULAR



OPEN BYPASS CLOSE BYPASS



OPEN PIPE RAM CLOSE PIPE RAM

UPPER PIPE RAMS



OPEN CHOKE CLOSE LINE

HYDRAULIC CL VALVE



AUXILIARY CONTROL PANEL

SERIAL NUMBER

SHIPMENT DATE

BEIJING PETROLEUM MACHINERY FACTORY



OPEN BLIND RAM CLOSE BLIND RAM



OPEN KILL LINE CLOSE KILL LINE



北石 BPM



OPEN PIPE RAM CLOSE PIPE RAM

LOWER PIPE RAMS

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Drill pipe Displacements

4" = .0054 BBLs/ft
5" = .0075 BBLs/ft

Drill pipe Capacities

1" = .0108 BBLs/ft
3" = .0178 BBLs/ft

Drill pipe Torque

1" = 16,000 ft/lbs - 4,000 lbs line pull
3" = 9,000 ft/lbs - 7,000 lbs line pull

Collar Torque

6" = 1,000 lbs - 7396 lbs line pull
8" = 2,000 lbs - 13600 lbs line pull

4" pipe - 11/500ft - 27 stks
5" pipe - 3 BBLs - 37 stks

Pipe capacity w/ 6" liners - 175 bbls/stk

5.40 T/No - Level.
CO2 5nt 5PC/No

Drilling Assignment 1 or 2 (DWS)

Totco updates tally X, XX Automatically.

Compensation w/ 90K-100K

L/D Top Joint
on Std 134

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Welding list

Weld over flow on slug pit (hole)
Pin holes on swing out on water tank
move sens rack (New Pin holes)

D.D on Location = 576 jts
1300 D.P. jts

Ronnie

903-930-0282

Franklin
832-465-2198

Arny DeLeon
936-590-8746

Dwrks / 10 Line

LL-612
HL-392
LH-219
HH-139

Drill Line on Dwrk/Rigup

2 layers 24 wraps

Repairlist

Koomey Remote Bolt holes
#7 triptank control.
High trans. Shifter

Hale Hughes

281-382-8662
hale.hughes@unitcorp.com

(Crown)

David Beck

361-550-9640

WARNING
DRILLERS
MOVE THE BLOCKS
THE RIG FLOOR
YOU CONFIRM
FERRICKMAN
TIED OFF

P/u 270
SIO 225
Rot = 230
Stk = mouse hob #2
Psi = 2830
WoB =
Diff = 40 10-15 min
Ta off =

Ta on = 500
TD 14526
10-TIH 45 stands
#18 1400
Derrick

53 Stand Top of Liner
Don't open DeLessor
Bottom of 6800
Liner @ 5122
Shoe @ 10400
When Tripping Watch the
Shoe

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**CROWN PROTECTION
MUST BE CHECKED
EACH TOUR**





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NATIONAL OILWELL VARCO

UNIT DRILLING - RIG 324

www.PetroRigs.com

3/06
DATE

ROSS HILL SCR HOUSE

6605
JOB

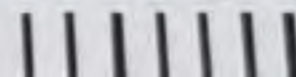
HOUSTON, TEXAS U.S.A.

24-HOUR SERVICE: (713) 856-4128

0001-0888-29



UNIT





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TONG PUL



MUD STAND



Instrument panel with nine gauges:

- MAIN AIR PRESSURE DRAWWORKS
- MAKEUP PRESSURE
- TRANSMISSION SHIFTER AIR PRESSURE
- HIGH - LOW DRUM CLUTCH
- WATER PRESSURE DRAWWORKS
- LEFT SERVICE CALIPERS PRESSURE
- RIGHT SERVICE CALIPERS PRESSURE
- EMERGENCY CALIPERS PRESSURE
- MAIN HYDRAULIC PRESSURE
- LUBRIC OIL

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Control panel with a digital display and buttons:

- SERIES
- Buttons: STOP, ↑, →, LWTED
- Label: TOTAL FLAW RATE

DC electrical gauges:

- DC VOLTS: 0 to 750 scale
- DC AMPERES: 0 to 1000 scale

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BAYLOR

ALARM/RESET



NATIONAL OILWELL
HOUSTON, TEXAS U.S.A.
ELMAGCO

ALARM/RESET

APP. NO.	100000	SERIAL NO.	10000000
BAYLOR MODEL NO.	100000	INPUT FREQ.	50/60 Hz
INPUT A.C. - PHASE	3	VOLTS	240/277
OUTPUT D.C. - VR	1	VOLTS	240
BAY. MTR. TEMP.	100°C		

POWER ON



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Automatic KVAR Adjuster

www.PetroRigs.com

Control System Associates Inc.
Broussard, Louisiana

800-587-2041

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WARNING
DO NOT MOVE THE BLOCKS FROM THE RIG FLOOR UNLESS YOU CONFIRM TERRICKMAN IS LID OFF

P/u 270
S/O 225
Rot = 230
Stk =
Psi = mouse hob #2
WOB = 2830
Diff = 40 10/15
Ta off =
Ta on =
RPM = 520
TD 14526
10-TIH 45 stands
#18
Perrick 1400

Bot
Line
Shoc
uh
slo

G
M

LOW DIS
BAYLOR BRAKE

RATOR RUN

GENER



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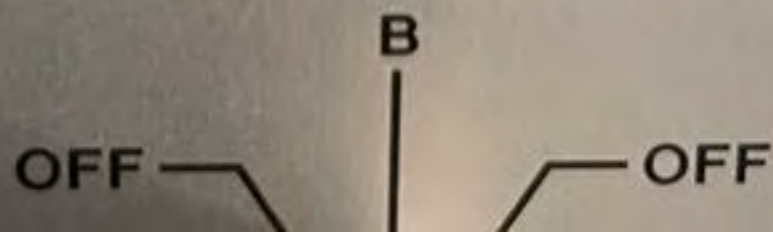
GENERATOR RUN



GENERATOR ON



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HOURS

0 9 2 1 9 3

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