Weatherford® Pumping Unit Inspection #E234943-20210813155323 **CUSTOMER SERVICE LOCATION LEASE WELL NUMBER** ND ND Corporation Ray, ND

Yard

GENERAL INFORMATION		
SUBMITTED DATE	08/13/2021	
ORDER #		
PUMPER/GAUGER		
LATITUDE	48.345054	
LONGITUDE	-103.041099	
CUSTOMER REPRESENTATIVE		
UNIT DESIGNATION	1100-500-306	
API NUMBER		
UNIT SERIAL NUMBER	02231-320-0836	
GEAR REDUCER SERIAL NUMBER	9-785	
UNIT NOT IN OPERATION	NO	
UNIT NOT IN OPERATION DESCRIPTION		
UNIT NOT INSPECTED	NO	
UNIT NOT INSPECTED DESCRIPTION		
PRIMARY JOB TASK / PURPOSE FOR BEING ON-SITE	INSPECTION	
MANUFACTURE DATE		
CURRENT INSPECTION DATE	8/13/2021 3:53:23 PM	
THIS IS A UNIT TRANSFER	NO	
NEXT INSPECTION ON		
BARCODE / ASSET NUMBER		
CUSTOMER SPECIFIC INFORMATION		
UNIT SHUT DOWN UPON ARRIVAL	NO	
UNIT SHUT DOWN FOR INSPECTION	NO	
THIS IS A NEW UNIT INSTALLATION	NO	

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ND Corporation	Ray, ND	ND	Yard

GENERAL INFORMATION		
INSTALLATION DATE		
WEATHERFORD INSPECTOR	BROOKS, BRANDON	
I HAVE REVIEWED THE ENERGY ISOLATION AND PREVENTATIVE MAINTENANCE TWIS AS APPLICABLE	YES	
NO	TES	
LIST ALL DETAILS OF THE INSPECTION, MAINTENANCE PROCEDURES OF NOTE	MISSING BELT GUARD HARDWARE, WIND GUARD HARDWARE, LADDER CAGE HARDWARE, ROLLBACK WHEEL AND PINS AND GEARBOX HUB. LOAD BELT HAS FRAYED EDGE AND STRESS CRACKS ACROSS INSIDE SURFACE.	
FACILIT	Y SIGNS	
FACILITY SIGNS MISSING	REGULATED CONFINED SPACE	
SEALS AND	BEARINGS	
RIGHT TOP DRUM BEARING	GOOD CONDITION	
RIGHT TOP DRUM SEAL	GOOD CONDITION	
LEFT TOP DRUM BEARING	GOOD CONDITION	
LEFT TOP DRUM SEAL	GOOD CONDITION	
TOP SPROCKET BEARINGS	GOOD CONDITION	
TOP SPROCKET SEALS	GOOD CONDITION	
TRAVERSING MECHANISM BEARINGS	CONDITION REQUIRES UNIT SHUTDOWN	
TRAVERSING MECHANISM SEALS	CONDITION REQUIRES UNIT SHUTDOWN	
BRAKING SYSTEM		
EMERGENCY BRAKE ADJUSTMENTS MADE	GOOD, NO ADJUSTMENTS REQUIRED	
MANUAL BRAKE ADJUSTMENTS MADE	GOOD, NO ADJUSTMENTS REQUIRED	
BRAKE RODS FUNCTIONING PROPERLY	YES	
MANUAL BRAKE PAD THICKNESS	FAIR	
EMERGENCY BRAKE PAD THICKNESS	FAIR	

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BRAKING SYSTEM		
BRAKE ROTOR CONDITION	GOOD CONDITION	
EMERGENCY ACTUATOR OPERABLE	NO	
MANUAL BRAKE TENSION	GOOD	
EMERGENCY BRAKE TENSION	GOOD	
PROXIMITY SENSOR AIR GAP	GOOD	
GROUN	D LEVEL	
LOAD BELT PINS AND KEEP BARS	GOOD CONDITION	
BRIDLE / BANANA BAR	GOOD CONDITION	
POLISHED ROD CONDITION	CONDITION REQUIRES UNIT SHUTDOWN	
POLISHED ROD LINER CONDITION		
ROD ROTATOR INSTALLED		
ROD ROTATOR FUNCTIONAL		
AMPS ON UPSTROKE (ROD AMPS)		
AMPS ON DOWNSTROKE (WEIGHT AMPS)		
AMP OFFAGE		
UNIT BALANCE	NOT CHECKED	
STROKES PER MINUTE	0.0	
GAS ENGINE APPEARS TO BE STRAINING		
WEATHERFORD REPRESENTATIVE HAS BEEN CONTACTED		
CUSTOMER HAS BEEN CONTACTED		
ADDED COUNTERWEIGHT	NO	
POUNDS OF WEIGHT ADDED		
UNIT OPERATING WITH VSD	NO	
VSD MAKE		

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GROUND LEVEL	
PEAK LOAD SHOWN ON VFD	NOT SELECTED
UNIT OPERATING IN RACE TRACK MODE/TRIM SPEED ENABLED	NA
REVERSAL TOP OF STROKE SPM	
REVERSAL BOTTOM OF STROKE SPM	
UPSTROKE SPM	
DOWNSTROKE SPM	
MURPHY VIBRATION SENSOR	GOOD CONDITION
SPEED SENTRY MODEL	P2.2
OVERSPEED SET POINT	0.0
UNDERSPEED SET POINT	0.0
SPEED SENTRY MEMORY RECORDING	NO
OVERSPEED SHUTDOWN	NOT WORKING
UNDERSPEED SHUTDOWN	NOT WORKING
CUSTOMER SPECIFIC SPEED SENTRY SHUTDOWN	NOT WORKING
TOWER BASE TO SKID BOLTS	REPLACEMENT REQUIRED
ELECTRIC MOTOR GREASED	NA
RUBBER BOOT	REPAIR/REPLACE
ROTAFLEX TOWER CONDITION	GOOD CONDITION
OIL LEAKS	NONE
OIL LEAKS OTHER DESCRIPTION	
CONFIRMED SET BACK DISTANCE(MEASURED FROM THE CENTER OF THE WELLBORE TO FRONT OF CONCRETE BASE WITH STRING LINE)	NOT CHECKED
UNIT ALIGNMENT	IN ALIGNMENT
UNIT LEVEL	LEVEL

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GROUND LEVEL		
UPPER LADDER & CAGE CONDITION	GOOD CONDITION	
LOWER LADDER & CAGE CONDITION	GOOD CONDITION	
CARRIER BAR CONDITION	GOOD CONDITION	
TIE-DOWNS CONDITION	GOOD CONDITION	
CONCRETE BASE CONDITION	GOOD CONDITION	
NOSE PAD CONDITION	NA	
PIER CONDITION	NA	
I-BEAM CONDITION	NA	
LOAD BELT CONDITION (VISUAL VIEW FROM OUTSIDE OF UNIT)	REPLACEMENT REQUIRED	
STRUCTUR	AL CRACKS	
ARE THERE STRUCTURAL CRACKS PRESENT?	NO	
IF PRESENT, HAVE STRUCTURAL CRACKS BEEN IDENTIFIED BY PAINT?		
DESCRIBE SPECIFIC LOCATION OF STRUCTURAL CRACK(S) (ADD IMAGES OF STRUCTURAL CRACKS PRESENT TO LAST PAGE OF INSPECTION)		
GEAR REDUCER BE	ARINGS/BUSHINGS	
LOW SPEED CONDITION	NEEDS FURTHER INSPECTION	
INTERMEDIATE SPEED CONDITION	NEEDS FURTHER INSPECTION	
HIGH SPEED CONDITION	NEEDS FURTHER INSPECTION	
GEAR REDUCER SEALS/GASKETS		
LOW SPEED CONDITION	NEEDS FURTHER INSPECTION	
INTERMEDIATE SPEED CONDITION	NEEDS FURTHER INSPECTION	
HIGH SPEED CONDITION	NEEDS FURTHER INSPECTION	

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GEAR CO	NDITION
LOW SPEED GEAR	NEEDS FURTHER INSPECTION
LOW SPEED PINION	NEEDS FURTHER INSPECTION
HIGH SPEED GEAR	NEEDS FURTHER INSPECTION
HIGH SPEED PINION	NEEDS FURTHER INSPECTION
OIL COI	NDITION
OIL LEVEL	LOW
OIL CONDITION	REQUIRES REPLACEMENT OF ALL OIL
PRIME	MOVER
TYPE (GAS/ELECTRIC)	ELECTRIC
BRAND	
MODEL	NORTH AMERICAN
SERIAL NUMBER	219814050409-DZ
FRAME NUMBER	445T
RPM	1125
HORSEPOWER	100
SHEAVE DIAMETER (INCHES)	10
BELT CONDITION	SHOWING SIGNS OF WEAR
SHAFT CONDITION	GOOD CONDITION
SHAFT SIZE (INCHES)	3 3/8
GEAR REDUCER SHEAVE CONDITION	GOOD CONDITION
GEAR REDUCER SHEAVE DIAMETER (INCHES)	20
GAS ENGINE OIL USED (GALLONS)	
GAS ENGINE OIL REQUIRED FILTERING	
OIL SAMPLE TAKEN	

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INSIDE (FRONT) COU	INTERWEIGHT DOORS
FRONT COUNTERWEIGHT ROTAFLEX DOORS CONDITION	GOOD CONDITION
FRONT UPPER COUNTERWEIGHT ROTAFLEX DOORS CONDITION	GOOD CONDITION
REMOVED SHIPPING BLOCKS BETWEEN TOWER BEAM AND COUNTERWEIGHT BOX DURING INSTALLATION	NA
OIL SUMP RESERVOIR	CLEANING AND NEW OIL REQUIRED
PROPER OIL LEVEL OF SUMP	ADDITIONAL OIL REQUIRED
SUMP OILING SYSTEM FREE OF OBSTRUCTIONS AND PROPERLY OILING	REPAIR REQUIRED
INTERNAL LOAD BELT CONDITION AND CONNECTION TO WEIGHT BOX, LOAD BELT PINS	GOOD CONDITION
BELT AND METAL SHAVINGS PRESENT INSIDE OF TOWER	NO

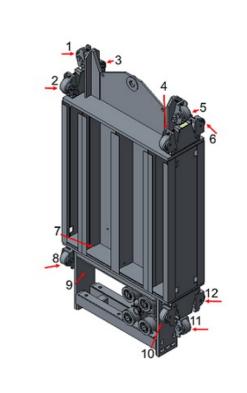
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CUSTOMER	SERVICE LOCATION	LEASE	WELL NUMBER
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GUIDE WHEELS

	GUIDE
GUIDE WHEEL #1	GOOD CONDITION
GUIDE WHEEL #2	GOOD CONDITION
GUIDE WHEEL #3	GOOD CONDITION
GUIDE WHEEL #4	GOOD CONDITION
GUIDE WHEEL #5	GOOD CONDITION
GUIDE WHEEL #6	GOOD CONDITION
GUIDE WHEEL #7	CONDITION REQUIRES UNIT SHUTDOWN
GUIDE WHEEL #8	CONDITION REQUIRES UNIT SHUTDOWN
GUIDE WHEEL #9	CONDITION REQUIRES UNIT SHUTDOWN
GUIDE WHEEL #10	CONDITION REQUIRES UNIT SHUTDOWN
GUIDE WHEEL #11	CONDITION REQUIRES UNIT SHUTDOWN
GUIDE WHEEL #12	CONDITION REQUIRES UNIT SHUTDOWN



COUNTERWEIGHT BOX				
COUNTERWEIGHT BOX IS PROPERLY ALIGNED INSIDE OF THE TOWER	NO			
SWIVEL SHAFT (INCHES)				
DRIVE SPROCKET (INCHES)				
DRIVE SPROCKET CONDITION	CONDITION REQUIRES UNIT SHUTDOWN			
LOAD BELT PIN AND SNAP RINGS CHECKED	YES			
DRIVE CHAIN TENSION CHECKED	NO			
DRIVE CHAIN TENSION ADJUSTED	NOT REQUIRED			

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COUNTERWEIGHT BOX			
DRIVE CHAIN SIDE TO SIDE DEFLECTION (IN INCHES)	<1"		
DRIVE CHAIN CONDITION	CONDITION REQUIRES UNIT SHUTDOWN		
SWIVEL SHAFT CONDITION	CONDITION REQUIRES UNIT SHUTDOWN		
CARRIAGE ASSEMBLY CONDITION	CONDITION REQUIRES UNIT SHUTDOWN		
FRONT CARRIAGE WHEELS CONDITION	CONDITION REQUIRES UNIT SHUTDOWN		
FRONT CARRIAGE WHEEL BEARINGS CONDITION	NOT CHECKED		
VERIFY CARRIAGE FRAME BOLTS ARE TORQUED TO 250 FT. LBS. (8 EACH)	CONDITION REQUIRES UNIT SHUTDOWN		
CARRIAGE FRAME BOLTS CONDITION	NOT CHECKED		
ALL DOORS PROPERLY SECURED AFTER PM COMPLETION	YES		
ALL DOORS NOT PROPERLY SECURED AFTER PM COMPLETION EXPLANATION			
DOORS SECURED WITH ZIP-TIE, LOCK, OR NUMBERED SEAL (IF REQUIRED BY CUSTOMER OR REGION)	NA		
INSIDE (BACK) PANELS	S ABOVE GEAR REDUCER		
CHAIN PINS CONDITION	CONDITION REQUIRES UNIT SHUTDOWN		
PIN BOLTS AND RETAINING BAR CONDITION	CONDITION REQUIRES UNIT SHUTDOWN		
SWIVEL SHAFT (KNUCKLE) CONDITION	CONDITION REQUIRES UNIT SHUTDOWN		
BACK CARRIAGE WHEELS CONDITION	CONDITION REQUIRES UNIT SHUTDOWN		
BACK CARRIAGE WHEEL BEARINGS CONDITION	NOT CHECKED		
INSIDE MID-TOWER			
MID-TOWER DOORS AND ENCLOSURE CONDITION	GOOD CONDITION		
TOP SPROCKET LUBRICATED	NO		
TOP SPROCKET ASSEMBLY CONDITION	GOOD CONDITION		
GREASE ADDED TO TOP SPROCKET	NO		
BEARING NUTS AND LOCKER WASHERS CONDITION	GOOD CONDITION		

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INSIDE MID-TOWER				
TOP SPROCKET ASSEMBLY CHECKED FOR CRACKS AND BENDS IN TUBING	NONE PRESENT			
ADJUSTMENT BOLTS AND JAM NUTS CONDITION	GOOD CONDITION			
DRIVE CHAIN RETAINING PINS CONDITION	GOOD CONDITION			
MEASUREMENT FROM CENTER OF THE TOP SPROCKET TO THE OUTSIDE EDGE OF THE TOWER BEAM FLANGE (SHOULD BE 3")	3 INCHES			
ТОР Т	OWER			
HINGE PINS CHECKED BEFORE OPENING THE CROWN HOOD	YES			
CROWN HOOD HINGE PINS CONDITION (HINGE PINS ON THE TOP COVER INSPECTED BEFORE OPENING THE CROWN HOOD)	GOOD-SAFE TO OPEN CROWN HOOD			
ROLLER DRUM SIDE PLATE CONDITION	GOOD CONDITION			
PILLOW BLOCK BEARING SEALS CONDITION	GOOD CONDITION			
ROLLER DRUM GREASED	NO			
TOP DRUM LEAKING GREASE	NO			
TOP DRUM BEARINGS CONDITION	GOOD CONDITION			
METAL SHAVINGS FOUND ON PILLOW BLOCK HOUSING	NO			
ROLLBAC	K SYSTEM			
TYPE OF ROLLBACK SYSTEM	NA			
ROLLBACK SYSTEM CONDITION				
HYDRAULIC FLUID LEVEL				
BUMP CHECK MOTOR TO CONFIRM PROPER ELECTRIC WIRING OF ROLLBACK SYSTEM				
RUST				
EXCESSIVE RUST PRESENT	NO			
RUST PRESENCE LOCATION				

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COMPLETION CONFIRMATION		
MAINTENANCE STICKER WITH CREW AND DATE INSTALLED ON THE TOWER	NO	
MAINTENANCE STICKER INSTALLED DURING INSPECTION	NO	
ADDITIONAL ITEMS FOUND REQUIRING ATTENTION	NO	
SPECIFICS OF ADDITIONAL ITEMS FOUND		
UNIT CONDITIONS WARRANT CONTINUED SHUTDOWN. CUSTOMER HAS BEEN NOTIFIED.	YES	

IMAGES

TOTAL NUMBER OF IMAGES

5

IMAGES



LEASE SIGN

UNIT SERIAL NUMBER

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IMAGES



GEAR REDUCER SERIAL NUMBER



UPPER LADDER & CAGE

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