

Activity Date Jan. 15, 2022 Id 2000876545

ESP Installation Report



Customer/Operator	XTO ENERGY	Well Name	PELTON FEDERAL 11X-35F
Field Name/Lease	BEAR CREEK DUPEROW UNIT	Run Date/Run ID	Jan 15, 2022 / 2000876545
Client Representative	Neal Dukart	Field Ticket	EO0M-00001
Skid SN			
Contract Type	Direct Sales		
Mgt Country	US Land Midcontinent	Location	Casper
Reason		Reason Type	
Spooler/Bander	Arriba	Rig Name	
Personnel	Mark Burchfiel		
Total Crew Size	1.00		

Application Details

Gas / Oil Ratio	600 SCF/STB	Water Cut (%)	50.00	Oil Gravity		Water Gravity	
Fluid Properties	Corrosive <input type="checkbox"/>	Abrasive <input type="checkbox"/>	Scale <input type="checkbox"/>	NORM <input type="checkbox"/>	Paraffin <input type="checkbox"/>	Other <input type="checkbox"/>	

ESP System Accessories

Equipment Coating								
Accessory Type	Manufacturer	Part Number	Model Number	OD (in)	ID (in)	Set Depth (ft)	Length (ft)	Count
Cable Bands								45
Cable Protector								299
MLE Protector								6

Motor Derate

Motor Derate (%)		Derated Hp (Hp)		Derated Volts (V)		Derated Amps (A)	
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Well Details

Environment	Land - Unconventional	Completion Type		Bottom Hole Temp	245 °F
Installation Type	Standard - Maximus Motor	Geometry	Horizontal (90 and above)	Total Well Depth (MD)	19000 ft
Well Type	Oil & Gas			ESP Bottom Depth	9990 ft

Well Tubulars

#	String Type	OD (in)	Weight (lb/ft)	Threads	Material	MD Top (ft)	MD Bottom (ft)
1	Production Casing	7.000	32.00			0.0000	11000.0000
2	Tubing	2.875	6.50			0.0000	9859.0000

Well Perforations

#	MD Top (ft)	MD Bottom (ft)	Datum (ft)
1	12000.0000	18000.0000	
2			

Monitoring

LiftWatcher	Installed & Active
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Sensor Readings

Sensor Type	XT175 Type1			Sensor Position 1		Sensor Position 2	
Pi	1963 psia	Pd	5000 psia	P1		P2	
Ti	245 °F	Tm	281 °F	T1		T2	
Cz	18.912	V0x		V1x		V2x	
Cf	22.633	V0y		V1y		V2y	
		V0z		V1z		V2z	
Surface Panel				Surface Panel Firmware Version			

Monitoring - Well

Tubing Pressure	65 psia	Casing Pressure	0 psia	Static Fluid Level	
Well Head Pressure		Dynamic Fluid Level		Surface Flow Rate	1200 bpd
Pump Up Time	00:35:00				

Operations

Resistances	Motor 1	Motor 2	Motor 3	Cable 1	Cable 2	Cable 3	Penetrator 1	Penetrator 2	Surface Cable	System
Phase-Phase (AB-AC-BC)	2.1-2.1-2.1 Ohm	-- Ohm	-- Ohm	-- Ohm	-- Ohm	-- Ohm	-- Ohm	-- Ohm	-- Ohm	9.8-9.8-9.8 Ohm
Phase-Ground (AG-BG-CG)	2200-2200-2200 Mohm	-- Mohm	-- Mohm	2200-2200-2200 Mohm	-- Mohm	-- Mohm	-- Mohm	-- Mohm	-- Mohm	40-40-40 Mohm
No-load Volt A-B	3300 V		No-load Volt A-C		3300 V		No-load Volt B-C		3300 V	
No-load Volt A-G			No-load Volt B-G				No-load Volt C-G			
No-load Frequency	60 Hz									
Load Volt A-B	2445 V		Load Volt A-C		2520 V		Load Volt B-C		2476 V	
Load Volt A-G			Load Volt B-G				Load Volt C-G			
Load Frequency	50 Hz									
Downhole Amps A	31.00 A		Downhole Amps B		31.00 A		Downhole Amps C		31.00 A	
Current Fluctuation	Stable		THD % Current				THD % Voltage			
Surface Control Type	VSD									
Running Freq Hz	50.00 Hz		VSD Base Freq Hz		63.00 Hz		VSD Motor Direction		0	
Load Filter Type			Load Filter Setting				Load Filter Amps			
Line Filter Type			Line Filter Setting				Line Filter Amps			
Surface Cable Size			TVSS				VSD Output Amps		200 A	
Underload Setting	16		Overload Setting		54		Start-up Amps		27 A	

Report Summary

SLB Rep Comments	15 Jan Arrived on location and unloaded, prepped and spotted equipment.									
	16 Jan built partial assembly									
	17 Jan Arrived on location and conducted safety meeting. Rigged up spooler and captube. Finished assembly IAW ALFORM and local instructions. No shims used on MGH, lifted to .080. First pump used .047 shims, lifted to .040. Second pump used .047 shims, lifted to .040. Third pump used .031 shims, lifted to .040. Fourth pump used .061 shims, lifted to .040. 6 Used Hulk MLE clamps installed, 1 on motor, 1 on MGH and 1 on each pump. Hulk tubing clamps used on every collar. 3/8 captube ran off a captube sub on bottom of the centralizer to surface. Anode installed on bottom of the captube sub. RIH and cut long for the night.									
	18 Jan Sand Pro built connector and landed. Performed final electrical test after BOP's removed.									
	19 Jan connected surface cable and tested shutdowns. Started and monitored until fluid to surface									
Customer Signature							Report Date Jul. 19, 2022			

Surface Equipment Listing

Item	Part	Manufacturer	PN	Description	Condition	Serial Number	Length	TopMD	BottomMD
1	VSD	Schlumberger	103189182	SPEEDSTAR SWD VSD:S7+,260KVA,N3R,6P, W/ JUNCTION BOX,ANTI- CONDENSATION SPACE HEATER 250W, NO INSTRUCT	Used	191000838			
AMPERAGE				313	CONFIGURATION			6 PULSE	
ENCLOSURE TYPE				3R	KVA (50 HZ)			206 @ 380V	
KVA (60 HZ)				260 @ 480V	MODEL				
REMARKS					TYPE				
2	Transformer	Southwest	3MT0400C A002	Step up transformer	Used	210511416 1			
IMPEDANCE					KVA				

Surface Equipment Listing

MODEL	PRIMARY VOLTAGE RANGE
REMARKS	SECONDARY VOLTAGE RANGE
TAP	TYPE

Downhole Equipment Listing

Item	Part	Manufacturer	PN	Description	Condition	Serial Number	Length	TOP MD	Bottom MD
3	Cable	Schlumberger	102929314	CABLE: REDALEAD #4, 5KV (4/1 ELC .020 SS5F)	Used	0018266476			

APPROXIMATE WEIGHT (LBS)	1.6501	APPROXIMATE WEIGHT (LBS)	1.715
CONDUCTOR SIZE	1	CONDUCTOR TYPE	SOLID
CONFIGURATION	FLAT	KV	5
LENGTH (FT)		PART CLASSIFICATION	REDALEAD
REEL #		REMARKS	

4	Cable	Schlumberger	103014434	CABLE: REDA LEAD #4, 5KV (4/1 EHLTB .020 SS5F)	Used	0043624729			
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APPROXIMATE WEIGHT (LBS)	1.8256	APPROXIMATE WEIGHT (LBS)	1.88
CONDUCTOR SIZE	4	CONDUCTOR TYPE	SOLID
CONFIGURATION	FLAT	KV	5
LENGTH (FT)		PART CLASSIFICATION	REDALEAD
REEL #		REMARKS	

5	MLE	Schlumberger	100589437	MLE, MAXLOK, 456, 150FT, 6/1, KELB, M5F, P/I	New	SN3070			
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APPROXIMATE WEIGHT (LBS)	172.0	CONDUCTOR SIZE	6
CONDUCTOR TYPE	SOLID	CONNECTION TYPE	PLUG-IN
KV	5	LENGTH (FT)	
LENGTH (FT)	150	MATERIAL/ARMOR	
REMARKS		SERIES	456 MAXLOK

6	BODH	Schlumberger	1333780	HEAD: BOLT ON DISCHARGE PMP, 400, RLOY, 2.87 8RD EUE	New	N/A			
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APPROXIMATE WEIGHT (LBS)	10	MAKE-UP LENGTH (FT)	0.8
MATERIAL	RLOY	REMARKS	
SERIES	400	SHIPPING BOX #	
SIZE	8RD EUE	TUBING O.D. (IN)	2.87

7	Other	Schlumberger	100144521	DPS: REDA 400, 13CR, CABLE SLOT	New	N/A			
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8	Pump	Schlumberger	103155343	PUMP: DN1750 CR-CT 70 STG 400/400 90 RLOY BTHD, .68 INC 718, M-TRM, AFL, ARZ-TT, MOD CR, FACT SHIM	Used	SN70			
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APPROXIMATE WEIGHT (LBS)	287	HOUSING MATERIAL	RLOY
MAKE-UP LENGTH (FT)	13.4	MATERIAL/ELASTOMERS	AFLAS
MATERIAL/RADIAL BEARING	TT	NUMBER OF STAGES ACTUAL	
NUMBER STAGES FULL HOUSING	70	RADIAL BEARING	ARZ
REMARKS		SERIES	400/400
SHAFT MATERIAL	INCONEL 718	SHAFT SIZE	.68
SHIPPING BOX #		STAGE PROCESS	NONE
STAGE TYPE	DN1750	TANDEM CONNECTION	CT
THRUST TYPE	CR		

9	Pump	Schlumberger	103155344	PUMP: DN1750 CR-CT 117 STG 400/400 150 RLOY BTHD, .68 INC 718, M-TRM, AFL, ARZ-TT, MOD CR, FACT SHIM	Used	SN5482			
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APPROXIMATE WEIGHT (LBS)	577	HOUSING MATERIAL	RLOY
MAKE-UP LENGTH (FT)	22	MATERIAL/ELASTOMERS	AFLAS
MATERIAL/RADIAL BEARING	TT	NUMBER OF STAGES ACTUAL	
NUMBER STAGES FULL HOUSING	117	RADIAL BEARING	ARZ
REMARKS		SERIES	400/400
SHAFT MATERIAL	INCONEL 718	SHAFT SIZE	.68
SHIPPING BOX #		STAGE PROCESS	NONE

Downhole Equipment Listing

STAGE TYPE	DN1750	TANDEM CONNECTION	CT
THRUST TYPE	CR		

10	Pump	Schlumberger	103155344	PUMP: DN1750 CR-CT 117 STG 400/400 150 RLOY BTHD, .68 INC 718, M-TRM, AFL, ARZ-TT, MOD CR, FACT SHIM	Used	SN5475			
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APPROXIMATE WEIGHT (LBS)	577	HOUSING MATERIAL	RLOY
MAKE-UP LENGTH (FT)	22	MATERIAL/ELASTOMERS	AFLAS
MATERIAL/RADIAL BEARING	TT	NUMBER OF STAGES ACTUAL	
NUMBER STAGES FULL HOUSING	117	RADIAL BEARING	ARZ
REMARKS		SERIES	400/400
SHAFT MATERIAL	INCONEL 718	SHAFT SIZE	.68
SHIPPING BOX #		STAGE PROCESS	NONE
STAGE TYPE	DN1750	TANDEM CONNECTION	CT
THRUST TYPE	CR		

11	Pump	Schlumberger	103155344	PUMP: DN1750 CR-CT 117 STG 400/400 150 RLOY BTHD, .68 INC 718, M-TRM, AFL, ARZ-TT, MOD CR, FACT SHIM	Used	SN5474			
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APPROXIMATE WEIGHT (LBS)	577	HOUSING MATERIAL	RLOY
MAKE-UP LENGTH (FT)	22	MATERIAL/ELASTOMERS	AFLAS
MATERIAL/RADIAL BEARING	TT	NUMBER OF STAGES ACTUAL	
NUMBER STAGES FULL HOUSING	117	RADIAL BEARING	ARZ
REMARKS		SERIES	400/400
SHAFT MATERIAL	INCONEL 718	SHAFT SIZE	.68
SHIPPING BOX #		STAGE PROCESS	NONE
STAGE TYPE	DN1750	TANDEM CONNECTION	CT
THRUST TYPE	CR		

12	AGH	Schlumberger	103161478	MGH: RC D8-42 CR-CT 400/400 RLOY BTHD, .87 INC 718, M-TRM, AFL, FBH-TT, NI-RST, ANTI-ROTATION, EXTD HEAD & SHAFT, MOD CR, FACT SHIM	Used	SN574			
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APPROXIMATE WEIGHT (LBS)	182	HOUSING MATERIAL	RLOY
MAKE-UP LENGTH (FT)	6.9	MATERIAL/ELASTOMERS	AFLAS
MATERIAL/RADIAL BEARING	TT	RADIAL BEARING	FBH
REMARKS		SERIES	400/400
SHAFT MATERIAL	INCONEL 718	SHAFT SIZE	.87
SHIPPING BOX #		STAGE PROCESS	NONE
TANDEM CONNECTION	CT	THRUST TYPE	CR

13	Gas Separator	Schlumberger	102770728	INTAKE: VGSA D20-60, 400/400 RLOY .87 INC 718, M-TRM, ES-TT, EXTD HEAD & SHAFT, UT, AFL, FACT SHIM	Used	SN1246			
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14	Intake	Schlumberger	101876828	INTAKE: VGSA D20-60, 400/400 RLOY .87 INC 718, M-TRM, ES-TT, EXTD HEAD, FACT SHIM	Used	SN101877525			
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APPROXIMATE WEIGHT (LBS)	145	HOUSING MATERIAL	RLOY
MAKE-UP LENGTH (FT)	3.3	MATERIAL/BASE	RLOY
MATERIAL/RADIAL BEARING	TT	PRODUCT TYPE	VGSA D20-60
RADIAL BEARING	ES	REMARKS	
SERIES	400/400	SHAFT MATERIAL	INCONEL 718
SHAFT SIZE	.87	SHIPPING BOX #	
TANDEM CONNECTION	NA		

15	Protector	Schlumberger	103667086	PROTECTOR: BSBSBSB-S, ADVANCED MAXIMUS, 400/456, KTB/RTB, .87 INC 718, CS, M-TRM, HSN, ARZ-TT, FACT SHIM, TOP METAL BELLOWS SHAFT SEAL, REDA 6, MAXJOINT, BAG FRAME WITH MID HOLES	New	SN9			
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APPROXIMATE WEIGHT (LBS)	262	CONFIGURATION	BSBSBSB
DOWN THRUST BEARING	GTB	DOWN THRUST BEARING	RTB
HOUSING MATERIAL	CS	MAKE-UP LENGTH (FT)	10.8

Downhole Equipment Listing

MATERIAL/ELASTOMERS	HSN	PRODUCT TYPE	ADVANCED MAXIMUS
REMARKS		SERIES	400/456
SHAFT MATERIAL	INCONEL 718	SHAFT SIZE	.87
SHIPPING BOX #		UP THRUST BEARING	KTB

16	Motor	Schlumberger	102924809	MOTOR: 456, 13, 4133, MAXIMUS, RA-S, CS, M-TRM, AS, AFL, HL, 6 OIL, GRB, MAXJOINT, UNPAINTED	Used	SN59			
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AMPERAGE	46.6	APPROXIMATE WEIGHT (LBS)	1078
CONFIGURATION	S	VOLTAGE (60 HZ)	2730
HP (50 HZ)	162.5	HP (60 HZ)	195
MAKE-UP LENGTH (FT)	23.5	MATERIAL	CS
MAX. WINDING TEMP (DEG.F)	400	POT HEAD	PLUG-IN
PRODUCT TYPE	MAXIMUS	REMARKS	
SERIES	456	SHIPPING BOX #	
THRUST BEARING TYPE	HL	VOLTAGE (50 HZ)	2275
VOLTAGE (60 HZ)	2730	WINDING CODE	4133

17	Sensor	Schlumberger	103307104	BASE GAUGE: XT175 TYPE 1, VITON/AFLAS, 13CR	Used	S263X21EN 01598			
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MAKE-UP LENGTH (IN)	22.430	MATERIAL/BODY PARTS	AISI 420 (13CR)
MATERIAL/ELASTOMERS	VITON AND AFLAS	MAX ALLOWABLE WORKING PRESSURE (PSI)	6500
REMARKS		SHIPPING BOX #	
TEMPERATURE RATING (DEGREES FAHRENHEIT)	350		

18	Centralizer	Schlumberger	ACMG75061 500_TAE	Motor guide	Used	N/A			
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CASING SIZE (IN)		MAKE-UP LENGTH (FT)	
MATERIAL		O.D. (IN)	
REMARKS			