RODSTAR 3.6.33

Company:Sandia Data Well:Well 6 Disk file:Sandia Data Well 6.rsvx Comment:

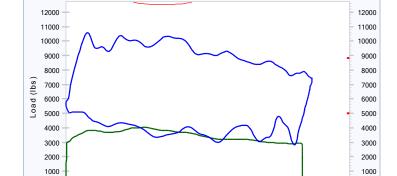
¬ Theta Oilfield Services, Inc. Norris/AOT DAL 432-561-8101

(gotheta.com)

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Date:9/12/2014

INPUT DATA				CALCULATED RESULTS						
Strokes per minute: Run time (hrs/day): Tubing pres. (psi): Casing pres. (psi): Fluid Properties	24.0 (f 43 (f 0 St	Fluid level (ft from surface): 1921 (ft over pump): 988 Stuf.box fr. (lbs): 100 Pol. rod. diam. 1.25" Motor & Power Meter		Production rate (bfpd): Oil production (BOPD): Strokes per minute: System eff. (Motor->Pump): Permissible load HP: Fluid load on pump (lbs): Polished rod HP:		49 15 7. 39 39 38	1 1% 0.7 34	Peak pol. pod load (lbs): Min. pol. rod load (lbs): MPRL/PPRL: Unit struct. loading: PRHP / PLHP: Buoyant rod weight (lbs):		2793 0.264 35% 0.34
						13	0.4	N/No: .082 , Fo/SKr: .068		
Water cut: Water sp. gravity: Oil API gravity:	1 El 38.0 Ty	Power meter Detent Elect. cost: \$.06/KWH Type: NEMA D			orime mover size var. not included)		(Min.	Energy)	BALANCED (Min Torq)	
Fluid sp. gravity: compress. Index:	1.015 3.0			NEMA D motor: Single/double cyl. engine: Multicylinder Engine:			2	25 HP 25 HP 25 HP	25 HP 25 HP 25 HP	
Pumping Unit:Lufkin Conventional - New				Torque analysis and electricity consumption		ricity			BALANCED	
API Size: C-456-305-144 (Unit ID: CL22)							(Min.	Energy)	(Min Torq)	
Crank hole number: # 1 (out of 4) Calculated stroke length (in): 145.9 Crank rotation with well to right: CCW			Peak g'box torq.(M in-lbs): Gearbox loading: Cyclic load factor: Max. cb moment (M in-lbs):			319 70% 1.384 503.81		296 64.9% 1.386 528.32		
Max. cb moment (M in-lbs): Structural unbalance (lbs): Crank offset angle (degrees): Unknown -520 0.0				Counterbalance effect(lbs): Daily electr.use (Kwh/Day): Monthly electric bill: Electr.cost per bbl fluid: Electr.cost per bbl oil:			6840 324 \$593 \$0.039 \$1.297		7198 329 \$602 \$0.040 \$1.319	
Tubing And Pump Information				Tubing, Pump And Plunger Calculations						
Tubing O.D. (in): 2.875 Upstr. rod-tbg fr. coeff.: 1.100 Tubing I.D. (in): 2.441 Dnstr. rod-tbg fr. coeff.: 1.100 Pump depth (ft): 2909 Tub.anch.depth (ft): 2603				Tubing stretch (in): Prod. loss due to tubing stretch (bfpd): Gross pump stroke (in): 140.4 Pump spacing (in. from bottom): 8.7						
Pump conditions: Full Pump load adj. (lbs): 0.0 Pump type: Insert Pump vol. efficiency: 85% Plunger size (in): 2.25 Pump friction (lbs): 200.0				Minimum pump length (ft): 18.0 Recommended plunger length (ft): 2.0						
Rod string design				Rod string stress analysis (service factor: 1)						
Diameter (inches)	Rod Grade	Length (ft)	Min. Tensile Strength (psi)	Stress Load %	Top Maximum Stress (psi)	Top Mir Stress		Bot. Mir Stress	-	tress Calc. Method
0.875 0.5	C (API) C (API)	2409 500	90000 90000	61.9% 101.0%	17432 21387	481 -238		32: -10		API MG API MG



80

Position (in)

160

140

0

20

Dynamometer Cards

